

<b>SOLICITATION, OFFER AND AWARD</b>		<b>1. This Contract Is A Rated Order Under DPAS (15 CFR 700)</b>		<b>Rating</b> DOA4	<b>Page</b> 1	<b>of</b> 265	<b>Pages</b>
<b>2. Contract Number</b>		<b>3. Solicitation Number</b> W56HZV-14-R-0039		<b>4. Type of Solicitation</b> <input type="checkbox"/> Sealed Bid (IFB) <input checked="" type="checkbox"/> Negotiated (RFP)		<b>5. Date Issued</b>	
<b>7. Issued By</b> U.S. ARMY CONTRACTING COMMAND CCTA-HTA-A WARREN, MICHIGAN 48397-5000  HTTP://CONTRACTING.TACOM.ARMY.MIL		<b>Code</b> W56HZV		<b>6. Requisition/Purchase Number</b> SEE SCHEDULE			
<b>8. Address Offer To (If Other Than Item 7)</b>							

**NOTE: In sealed bid solicitations 'offer' and 'offeror' mean 'bid' and 'bidder'.**

**SOLICITATION**

**9. Sealed offers in original and \_\_\_\_\_ copies for furnishing the supplies or services in the Schedule will be received at the place specified in item 8, or if handcarried, in the depository located in \_\_\_\_\_ until \_\_\_\_\_ (hour) local time \_\_\_\_\_ (Date).**

**Caution - Late Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-1. All offers are subject to all terms and conditions contained in this solicitation.**

<b>10. For Information</b>	<b>A. Name</b> JESSICA RICHARDSON	<b>B. Telephone (No Collect Calls)</b>			<b>C. E-mail Address</b> JESSICA.M.RICHARDSON18.CIV@MAIL.MIL
<b>Call:</b>		<b>Area Code</b> (586)	<b>Number</b> 282-3495	<b>Ext.</b>	

**11. Table Of Contents**

(X)	Sec.	Description	Page(s)	(X)	Sec.	Description	Page(s)
<b>Part I - The Schedule</b>				<b>Part II - Contract Clauses</b>			
X	A	Solicitation/Contract Form	1	X	I	Contract Clauses	176
X	B	Supplies or Services and Prices/Costs	8	<b>Part III - List Of Documents, Exhibits, And Other Attach.</b>			
X	C	Description/Specs./Work Statement	28	X	J	List of Attachments	217
X	D	Packaging and Marking	131	<b>Part IV - Representations And Instructions</b>			
X	E	Inspection and Acceptance	134	X	K	Representations, Certifications, and Other Statements of Offerors	219
X	F	Deliveries or Performance	156	X	L	Instrs., Conds., and Notices to Offerors	232
X	G	Contract Administration Data	168	X	M	Evaluation Factors for Award	254
X	H	Special Contract Requirements	171				

**OFFER (Must be fully completed by offeror)**

**NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.**

**12. In compliance with the above, the undersigned agrees, if this offer is accepted within \_\_\_\_\_ calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.**

<b>13. Discount For Prompt Payment</b> (See Section I, Clause No. 52.232-8)	<input checked="" type="checkbox"/> 10 Calendar Days (%)	<input type="checkbox"/> 20 Calendar Days (%)	<input type="checkbox"/> 30 Calendar Days (%)	<input type="checkbox"/> Calendar Days (%)
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<b>14. Acknowledgment of Amendments (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated):</b>	<b>Amendment No.</b>	<b>Date</b>	<b>Amendment No.</b>	<b>Date</b>

<b>15A. Name and Address of Offeror</b>	<b>Code</b>	<b>Facility</b>	<b>16. Name and Title of Person Authorized to Sign Offer (Type or Print)</b>	
<b>15B. Telephone Number</b>		<b>15C. Check if Remittance Address is</b> <input type="checkbox"/> Different From Above - Enter such Address In Schedule	<b>17. Signature</b>	<b>18. Offer Date</b>
<b>Area Code</b>	<b>Number</b>			

**AWARD (To be completed by Government)**

<b>19. Accepted As To Items Numbered</b>	<b>20. Amount</b>	<b>21. Accounting And Appropriation</b>		
<b>22. Authority For Using Other Than Full And Open Competition:</b> <input type="checkbox"/> 10 U.S.C. 2304(c)( ) <input type="checkbox"/> 41 U.S.C. 253(c)( )	<b>23. Submit Invoices To Address Shown In</b> (4 copies unless otherwise specified)		<b>Item</b> 25	
<b>24. Administered By (If other than Item 7)</b>	<b>Code</b>	<b>25. Payment Will Be Made By</b>		<b>Code</b>
<b>26. Name of Contracting Officer (Type or Print)</b>		<b>27. United States Of America</b>  (Signature of Contracting Officer)		<b>28. Award Date</b>

**IMPORTANT - Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.**

**Name of Offeror or Contractor:**

## SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: JESSICA RICHARDSON  
 Buyer Office Symbol/Telephone Number: CCTA-HTA-A/(586)282-3495  
 Type of Contract: Firm Fixed Price  
 Kind of Contract: System Acquisition Contracts

\*\*\* End of Narrative A0000 \*\*\*

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
A-1	52.204-4016	WARREN ELECTRONIC CONTRACTING	MAR/2013

(a) All Army Contracting Command - Warren (DTA) solicitations and awards are distributed on the Army Contracting Command - Warren Procurement Network (ProcNet) Business Opportunities website (<https://contracting.tacom.army.mil/opportunity.htm>) and are no longer available in hard copy. The Technical Data Packages (TDPs) and other documents, when available electronically, will be attachments or links to the solicitation package on ProcNet.

(b) You may need to use special software to view documents that we post on ProcNet. This viewing software is freeware, available for download at no cost from commercial websites like Microsoft and Adobe. In cases where such software is required, we provide a link from ProcNet to the commercial site where the software is available. Once you arrive at the software developer's site, follow its instructions to download the free viewer. You can then return to the ProcNet.

(c) Unless directed to do otherwise in Section L of this solicitation, you are required to submit your offer, bid, or quote electronically, via the Army Single Face to Industry (ASFI) Online Bid Response System (BRS). For detailed information about submitting your offer electronically, please see <https://contracting.tacom.army.mil/acqinfo/ebidnotice.htm>.

(d) Requirements for the online ASFI bid submission:

(1) You must be registered in the System for Award Management (SAM) at [www.sam.gov](http://www.sam.gov) (a Federal Government owned and operated free web site) and have a CAGE Code and CCR Marketing Partner Identification Number (MPIN).

(2) If you found the solicitation on ProcNet, use the following link to the Start Bid Page on the ASFI BRS website for this solicitation:

[https://acquisition.army.mil/asfi/solicitation\\_view.cfm?psolicitationnbr=W56HZV14R0039](https://acquisition.army.mil/asfi/solicitation_view.cfm?psolicitationnbr=W56HZV14R0039)

(3) If you found the solicitation by searching on ASFI, you can start the online bidding process by using the Start Bid button on the ASFI Solicitation View page. You may also access the ASFI BRS by going to <https://acquisition.army.mil/asfi/> and clicking on the Contracting Opportunities Search to find the solicitation.

(4) Once in the ASFI BRS, you will be asked to enter basic information and will then be directed to upload one or more files containing your offer and information required by the solicitation.

(5) You will receive a confirmation of your bid upon completion of the bid submission process.

(6) You can find detailed BRS user instructions on the ASFI website at [https://acquisition.army.mil/asfi/BRS\\_guide.doc](https://acquisition.army.mil/asfi/BRS_guide.doc).

(e) Note to offerors:

Your attention is called to the solicitation closing date and time as stated on the cover page of this solicitation, local time for the Army Contracting Command - Warren (DTA), Michigan. In accordance with FAR 15.208(a), offerors are responsible for submitting proposals, and any revisions, and modifications, so as to be received by the Government office designated in the solicitation by the time specified.

It is the offeror's responsibility to assure their proposal is received by the date and time specified on the cover page of this solicitation. In accordance with FAR 15.208, if your proposal was not received at the initial point of entry to the Government infrastructure (in this case, received through ASFI) by the exact date and time specified on the cover page of this solicitation, it will be determined late. Proposal, as the term is used here, means ALL volumes and/or parts of the proposal.

Note: There is no "expected" or "target" length of time for proposal submission; size and content may be factors, therefore offerors are strongly cautioned to submit their proposals allowing adequate time for submission.

**Name of Offeror or Contractor:**

Solicitations may remain posted on the AFSI Open Solicitation Web page after the solicitation closes. Even though the system will allow you to submit a proposal after the closing date/time, your proposal will be considered late and may not be considered for award. If you are responding to a Request for Proposal, your offer will not be considered if it is submitted after the closing date and time unless one of the exceptions is met at FAR 15.208(b). If you are responding to a Request for Quotation, your quote may be considered if it is received after the closing date, and it will not unduly delay award.

(f) Any award issued as a result of this solicitation will be distributed electronically. Awards and modifications posted on ProcNet represent complete OFFICIAL copies of contract awards and will include the awarded unit price. This is the notice required by Executive Order 12600 (June 23, 1987) of our intention to release unit prices in response to any request under the Freedom of Information Act (FOIA), 5 USC 552. Unit price is defined as the contract price per unit or item purchased as it appears in Section B of the contract and is NOT referring to nor does it include Cost or Pricing data/information. If you object to such release in the base contract or contract modifications, and you intend to submit an offer, notify the contracting officer in writing prior to the closing date identified in this solicitation and include the rationale for your objection consistent with the provisions of FOIA. A release determination will be made based on rationale given.

(g) If you have questions or need help using ProcNet, call our E-commerce Contracting Help Desk at (586) 282-7059, or send an email to usarmy.detroit.acg.mbx.wrn-web-page-request@mail.mil. If you have questions about the content of any specific item posted on the ProcNet, please call the contract specialist or point of contact listed for the item. For technical assistance in doing business with the Government, and doing business electronically, please visit the Procurement Technical Assistance Center website at <http://www.dla.mil/SmallBusiness/Pages/ProcurementTechnicalAssistanceCenters.aspx> to find a location near you.

End of Provision

A-2      52.201-4000      ARMY CONTRACTING COMMAND-WARREN (DTA) OMBUDSPERSON      APR/2011

Information regarding the Ombudsperson for this contract is located at the following website:  
<http://contracting.tacom.army.mil/acqinfo/ombudsperson.htm>

[End of Provision]

A-3      52.204-4023      NOTICE OF ELEVATED THREAT LEVEL FORCE PROTECTION CONDITION (FPCON)      JUN/2014  
Contractors are hereby notified that there is a potential impact on contractor performance during increased FPCON during periods of increased threat. During FPCONS Charlie and Delta, services may be discontinued / postponed due to higher threat. Services will resume when FPCON level is reduced to level Bravo or lower.

(End of Notice)

A-4      52.209-4025      NOTICE OF TRAINING OPPORTUNITIES AT THE DETROIT ARSENAL      MAR/2013

The contractor is notified that in accordance with training requirements required in the performance of this solicitation, and subsequent contract, that the G2 Office of TACOM LCMC can provide the following training upon request to contracting personnel. This opportunity is extended to all contractor personnel performing at the Detroit Arsenal and TACOM LCMC Organizations, including Selfridge Air National Guard Base.

Training is available for AT/OPSEC requirements including but not limited to: iWatch Training, Annual Security Training, and OPSEC Training as part of Annual Security training.

Contractors should make requests for training to the buyer listed on this solicitation and contract.

(End of Notice)

A-5      52.214-4000      ACKNOWLEDGMENT OF AMENDMENTS      OCT/1993

Acknowledge all the amendments you've received from us by identifying the amendment number and its issue date in the box below:

:	:	:
:      Amendment Number	:      Date	:
:	:	:

**Name of Offeror or Contractor:**

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[End of Provision]

A-6      52.214-4003      ALL OR NONE      MAR/1998  
(TACOM)

Offers in response to this solicitation must be submitted for the total quantity of the items identified in the solicitation.

- (1) ONLY ONE AWARD WILL BE MADE AS A RESULT OF THIS SOLICITATION.
- (2) OFFERS SUBMITTED FOR LESS THAN THE TOTAL QUANTITIES OF ALL THE ITEMS IN THIS SOLICITATION ARE INELIGIBLE FOR AWARD.

[End of Provision]

A-7      52.232-4087      PAYMENT UNDER WIDE AREA WORKFLOW (ACC WARREN)      JAN/2012

TACOM-Warren uses Wide Area Workflow, Receipt and Acceptance (WAWF-RA) to electronically process vendor requests for payment. (See DFARS clause 252.232-7003, entitled Electronic Submission of Payment Requests and Receiving Reports). Under WAWF-RA, vendors electronically submit (and track) invoices, and receipt/acceptance documents/reports. Submission of hard copy DD250/invoices is no longer acceptable for payment purposes.

The contractor shall register to use WAWF-RA at <https://wawf.eb.mil>. There is no charge to use WAWF. Direct any questions relating to system setup and vendor training to the Help Desk at Ogden, UT at 1-866-618-5988. Web-based training for WAWF is also available at <https://wawftraining.eb.mil>

To obtain payment, WAWF requires the contractor to input/indicate the various DoDAAC (Department of Defense Activity Address Code) codes that apply to the acquisition. These codes can be found on the cover page of contracts/orders as described below.

USE THE FOLLOWING CODES TO ROUTE YOUR INVOICES THROUGH WAWF:

- Your firms CAGE code (found in Block 15A of SF 33; Block 17a of SF 1449; Block 14 of SF 1442; Block 7 of SF 26)
- Issue and Admin DoDAAC Code (found in Block 7 of SF 33; Block 9 of SF 1449; Block 7 of SF 1442; Block 5 of SF 26)
- Ship-To DoDAAC Code (if deliverables are involved) (found in Section B of the contract where SF 33, SF 1442, or SF 26 is the cover page; Block 15 of SF 1449)
- Accept-By DoDAAC Code: If Inspection/Acceptance is Origin, use the Admin (DCMA)DoDAAC or the DoDAAC of the inspection/acceptance office if different than the Admin DoDAAC; if Destination, use the Ship-To DODAAC Code. If Accepted-By Other: enter the DoDAAC of the activity designated to perform acceptance.
- Payment DoDAAC Code. (found in Block 25 of SF 33; Block 18a of SF 1449; Block 27 of SF 1442; Block 12 of SF 26)

The paying office DoDAAC and mailing address is located on the first page of the award. To track the status of your invoice, click on the link, Pay status (myInvoice-External link) at the bottom of the left-hand menu.

If your paying office is Columbus, direct any payment-related questions to the Defense Finance Accounting Services (DFAS) Columbus at 1-888-756-4571. Please have your order number and invoice ready when calling about payment status. If your paying office is other than Columbus, contact your contract administrator for the customer service phone/fax numbers.

[End of Clause]

**Name of Offeror or Contractor:**

RFP: W56HZV-14-R-0039

## A.1. Introduction

A.1.1. While not incorporated into the Executive Summary, additional JLTV information is contained at the JLTV webpage at <https://contracting.tacom.army.mil/majorsys/jltvfrp/jltvfrp.htm>. In accordance with 252.227-7017 offerors shall make and submit as part of the offeror's proposal a signed assertions (as to the restrictions on data rights) otherwise, the offeror may be ineligible for award. The offeror proposed assertions and restrictions will become an attachment of the contract upon contract award.

## A.1.2. JLTV PROGRAM OVERVIEW

A.1.2.1. The JLTV is a joint United States Army/United States Marine Corps program. JLTV Family of Vehicles (FoV) is a materiel solution intended to fill capability gaps identified by the Combat Developer in the Functional Systems Analysis and Functional Needs Analysis.

A.1.2.2. The JLTV Program has executed contracts for Technology Development (TD) and Engineering and Manufacturing Development (EMD). The TD contracts included fabrication, delivery, and test of eight vehicle configurations, four companion trailers, and other test assets. The EMD contracts provided for fabrication, assembly, integration, testing and test support, and related requirements in accordance with the contract and the JLTV EMD Purchase Description. Each JLTV EMD phase contractor delivered 22 prototype vehicles, six trailers, and other hardware for test requirements.

## A.1.2.3. Production and Deployment

A.1.2.3.1. This solicitation is for the Production and Deployment phase of the program. The Government intends to award a single contract with eight option periods as a result of this solicitation. The contract will include Firm Fixed Price (FFP) Contact Line Item Numbers (CLIN) for vehicles, kits, other hardware, and selected services and Cost Plus Fixed Fee (CPFF) CLINs for System Technical Support (STS), Total Package Fielding (TPF), and Interim Contractor Support (ICS). This action includes approximately three years of Low Rate Initial Production (LRIP) and approximately five years of Full Rate Production (FRP) hardware and service procurements.

## A.1.2.3.1.2 Contract Requirements

Below is a breakdown of the Hardware and Services to be procured under this acquisition:

a. Vehicles: The JLTV FoV is comprised of two variants, a four-seat and a two-seat variant, a companion trailer (JLTV-T) and associated kits. The four-seat variant has two Base Vehicle Platforms: the General Purpose (GP), and the Close Combat Weapons Carrier (CCWC). The two-seat variant has one base vehicle platform: the Utility (UTL). Each base vehicle platform will be configured as a Mission Package Configuration through the installation of Mission Packages, as defined in Annex K of the JLTV Purchase Description (Attachment 0001).

## JLTV Mission Package Configurations:

- General Purpose (JLTV-GP)
- Heavy Guns Carrier (JLTV-HGC)
- Close Combat Weapons Carrier (JLTV-CCWC)
- Utility (JLTV-UTL)

b. Kits: The contract will include options for the Government to procure armor protection and auxiliary kits to accompany the vehicles. Kits will be either installed on the vehicles or packaged. The procurement will also include kits to be developed under STS.

c. Trailers: The contract will provide for trailers that will safely carry the associated payload, and meet the same mobility characteristics as its prime mover.

d. Technical Data Package: The contract will include options for the Government to procure technical data package (TDP) sufficient to support future competitions, for the JLTV configurations, vehicle systems, subsystems, components, spares, and kits.

e. System Technical Support: The contract will include engineering and logistical services to include data management, technical data, provisioning, packaging, documentation updates, configuration management, field service support, integrated product support (IPS), and training. Field service representative (FSR) and engineering support for Government and contractor performed test will be included in STS efforts as well as spare and repair parts for STS efforts.

f. Interim Contractor Support: The contract will include requirements for temporary contractor logistics support services including maintenance, storage of deliverables, training, and spare and repair parts inventory support for the JLTV FoV at fielded locations (CONUS & OCONUS).

g. Total Package Fielding: The contract will include requirements to ensure gaining units are fully trained in the operation and maintenance of the new equipment, ensure the equipment is delivered to the gaining units on schedule, and fully mission capable.

## A.1.2.3.1.3. Competition

**Name of Offeror or Contractor:**

An approved Justification and Approval has been received to allow limited competition. The statutory authority permitting other than full and open competition for this action is 10 U.S.C. 2304(c)(1), pursuant to FAR 6.302-1(a)(2)(ii)(A) & (B) and FAR 6.302-1(b)(1)(ii), supplies and services are available from only one, or a limited number of sources, and no other supplies or services will satisfy agency requirements.

The Government shall publicize the proposed contract action as required by FAR 5.201. Per FAR 6.302-1(d) (2) any bids, proposals, quotations, or capability statements must be considered for this award. All proposals received prior to the solicitation closing date will be considered by the Government. The intent is not a request for competitive proposals, and any interest will only be considered in determining whether the Government will cancel the solicitation and solicit under full and open competition. A determination by the Government not to compete, based upon responses received, is solely within the discretion of the Government.

**A.2 Multiyear Strategy (MS)**

The Government will be requesting a multiyear proposal after contract award for FFP requirements during performance of FRP. A Multiyear Procurement (MYP) requires Congressional approval. In order to obtain Congressional Approval the Secretary of Defense (SECDEF) must provide certification to Congress seeking approval to enter into a MYP. The Government will use the multiyear planning estimate as required in Section C to seek approval. While Congressional Approval is being sought, the Government will request the Contractor to submit a formal and post-award multiyear proposal. If determined to be appropriate, it will be negotiated utilizing cost and price analysis in accordance with FAR 15.404. If Congressional approval is obtained, a bilateral modification to the contract will be issued to convert the contract to a multiyear contract.

**BASE VEHICLE PRODUCTION QUANTITIES AND DELIVERY REQUIREMENTS**

Section B and Section F of the solicitation provides vehicle production quantities for the base award. These sections include JLTV FoV variants, kits, and mission package configurations for the Army and Marine Corps program requirements.

In order to maintain the testing schedule, the first JLTV deliveries must occur 10 months after contract award. See Sections B, E, and F of the solicitation for details relating to vehicle delivery and acceptance.

**A.3. INTERNATIONAL INTEREST**

A.3.1 The JLTV program is intended to be an International Program. The contract awarded under this solicitation will not contain requirements supporting international efforts until an International Agreement, or Project Arrangement (PA) is completed.

A.3.2. It is the responsibility of any party making an export of controlled hardware, technical data, and defense services to a foreign person (defined to include both a foreign individual and a foreign firm) to comply with the appropriate statutes and regulations including, but not limited to, the International Traffic in Arms Regulations (ITAR) and the Export Administration Regulations (EAR). Contractors are advised that any unauthorized export of JLTV information will subject them to significant penalties associated with violations of all export control regulations and laws including the Arms Export Control Act (22 USC 2751, et seq), and Export Administration Act of 1979, as amended (50 USC 2401, et seq) and mandated by Executive Order No. 13222, August 17, 2001.

**A.4. Access to Solicitation Documents****A.4.1. Access to Distribution C Attachment**

There are documents within the RFP that are marked Distribution Statement C. In order to obtain access to these documents an Offeror shall have a FebBizOpps account. The following are instructions to request access to attachments that are marked with a Distribution C Statement: <https://www.fbo.gov/>

1. Copy and paste the link above into your web browser
2. Log into FBO using your existing account or create a new account.
3. Once you log in, click on the files that you would like access to using the links on the right side of the page.
4. FBO will prompt you for your firm's MPIN (Marketing Partner ID Number). This is tied to your CAGE code. Contact the SAM helpdesk if you have issues locating this.
5. Once the request has been made, an automated email will be generated to the Government reviewer.
6. The request must be accompanied by an e-mail from the Data Custodian to:  
usarmy.detroit.acc.mbx.wrn-jltv-rfp@mail.mil and must include all of the following:  
a) A copy of the approved DD Form 2345 and the certification number that can be verified with the JCP database.

**Name of Offeror or Contractor:**

b) The Cage Code provided in the DD Form 2345 must match the Cage Code provided in the FedBizOps request.

c) A discussion of the requestors "need to know", which addresses the parties' program participation or their technology and production considerations in relation to the requested information.

## A.4.2. CLASSIFIED INFORMATION

A.4.2.1 The JLTV LRIP/FRP RFP contains a classified annex that is not available via the Internet. In order to obtain this annex, the below procedures must be followed and all requirements must be met:

## A.4.2.2. Classified Information Request Procedures

A.4.2.2.1. All Offerors must have a valid United States (US) security clearance of SECRET or higher in order to respond to this RFP, because the RFP includes a classified annex at the SECRET level. This annex will only be released to offerors possessing the appropriate clearance. All classified material must be handled in accordance with the National Industrial Security Program Operating Manual (NISPOM), DoD 5220.22-M and the DD Form 254 (Attachment XX). As a result, an Information Systems clearance of at least SECRET will be required to view the Classified Annex to this RFP.

A.4.2.2.2. Requests for the classified portion of this RFP must be made by the offeror's Facility Security Officer (FSO) via e-mail to usarmy.detroit.acc.mbx.wrn-jltv-rfp@mail.mil with the title "Request for JLTV RFP Classified Annex". Requests made by anyone other than the FSO will not be processed.

A.4.2.2.3. The following information must be provided and must match the offeror's information in the Industrial Security Facilities Database (ISFD):

- The Company Name and Classified Mailing Address (must match ISFD information)
- CAGE Code
- Name of Facility Security Officer (FSO) with Telephone Number(s), Datafax Number, and E-mail Address
- CAGE Code(s) and Address(es) of the Company Facility (Facilities) intended to participate in Proposal Preparation and Performance of the JLTV Program where classified material will be utilized.

A.4.2.2.4. Contractors must destroy classified material received or generated under contracts resulting from this RFP no later than two years following completion of the contract, or as soon as it is no longer needed, whichever comes first. Potential offerors that do not submit a proposal or who withdraw its proposals must destroy or return classified material generated or received under this RFP not later than 180 days after the date identified in block 9 of the RFP (SF 33). Offerors submitting a proposal that is not accepted by the Government or does not result in a contract award to the firm have 180 days after notification to destroy (in accordance with 5-705 of DoD 5220.22-M) or return classified information or as otherwise directed by the Procuring Contracting Officer (PCO).

## A.5. OSD ACCESS TO PROPOSAL INFORMATION

A.5.1. The Offeror agrees, by submission of an offer, that its proposal information and/or source selection information may be disclosed to the Office of Secretary of Defense (OSD), Department of Army (DA) and Department of Navy (DON) to support the requirements in DoDD 5000.02. The information will be used for the purposes of developing and validating the JLTV Independent Cost Estimate to support Milestone C approval, prior to any contract awarded in response to this solicitation. The Offeror agrees, by submission of its proposal, that the use of its proposal information and/or source selection information by OSD, Department of Army, and Department of Navy constitutes use for evaluation purposes. In the event that the use of the proposal information and/or source selection information is found to not be for evaluation purposes, the offeror agrees by submission of its proposal, that the information may be disclosed to the OSD, DA, and DON to support the requirements in DoD 5000.02.

\*\*\* END OF NARRATIVE A0001 \*\*\*

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT																																										
	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS																																														
0001	GENERAL PURPOSE VEHICLE																																														
0001AA	<p>JLTV GENERAL PURPOSE VEHICLES (ARMY)</p> <p>COMMODITY NAME: GENERAL PURPOSE VEHICLE                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>CLIN 0001AA is IAW Section C.X.X</p> <p>Installed Kits for these vehicles are on CLIN 0005AA.</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u>                      PACKAGING/PACKING/SPECIFICATIONS:                      SEE PACKAGING REQUIREMENTS CLAUSE FOR DETAILS                      LEVEL PRESERVATION: Commercial                      LEVEL PACKING: Commercial</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u></p> <table border="0"> <tr> <td>DOC</td> <td colspan="5">SUPPL</td> </tr> <tr> <td>REL CD</td> <td>MILSTRIP</td> <td>ADDR</td> <td>SIG CD</td> <td>MARK FOR</td> <td>TP CD</td> </tr> <tr> <td>001</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>DEL REL CD</u></td> <td><u>QUANTITY</u></td> <td></td> <td><u>DAYS AFTER AWARD</u></td> <td></td> <td></td> </tr> <tr> <td>001</td> <td>3</td> <td></td> <td>0300</td> <td></td> <td></td> </tr> <tr> <td>002</td> <td>2</td> <td></td> <td>0330</td> <td></td> <td></td> </tr> <tr> <td>003</td> <td>1</td> <td></td> <td>3360</td> <td></td> <td></td> </tr> </table> <p>FOB POINT: Origin</p> <p>SHIP TO:</p>	DOC	SUPPL					REL CD	MILSTRIP	ADDR	SIG CD	MARK FOR	TP CD	001						<u>DEL REL CD</u>	<u>QUANTITY</u>		<u>DAYS AFTER AWARD</u>			001	3		0300			002	2		0330			003	1		3360			6	EA	\$ _____	\$ _____
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007	32	0540																											



Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT																		
0002BA	<p>JLTV HEAVY GUNS CARRIER VEHICLES (ARMY)</p> <p>COMMODITY NAME: HEAVY GUNS CARRIER                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>CLIN 0002BA is IAW Section C.X.X</p> <p>Installed Kits for these vehicles are on CLIN 0006BA.</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u>                      PACKAGING/PACKING/SPECIFICATIONS:                      SEE PACKAGING REQUIREMENTS CLAUSE FOR DETAILS                      LEVEL PRESERVATION: Commercial                      LEVEL PACKING: Commercial</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u>                      DOC SUPPL                      REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD                      001  <table border="1"> <thead> <tr> <th>DEL REL CD</th> <th>QUANTITY</th> <th>DAYS AFTER AWARD</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>1</td> <td>0300</td> </tr> <tr> <td>002</td> <td>3</td> <td>0330</td> </tr> <tr> <td>003</td> <td>2</td> <td>0360</td> </tr> <tr> <td>004</td> <td>3</td> <td>0390</td> </tr> <tr> <td>005</td> <td>1</td> <td>0420</td> </tr> </tbody> </table> <p>FOB POINT: Origin</p> <p>SHIP TO:</p> </p>	DEL REL CD	QUANTITY	DAYS AFTER AWARD	001	1	0300	002	3	0330	003	2	0360	004	3	0390	005	1	0420	10	EA	\$ _____	\$ _____
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0003	CLOSE COMBAT WEAPONS CARRIER																																																				
0003AA	<p><u>JLTV CLOSE COMBAT WEAPONS CARRIER VEHICLES (ARMY)</u></p> <p>COMMODITY NAME: CLOSE COMBAT WEAPONS CARRIER                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>CLIN 0003AA is IAW Section C.X.X</p> <p>Installed Kits for these vehicles are on CLIN 0007AA.</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u>                      PACKAGING/PACKING/SPECIFICATIONS:                      SEE PACKAGING REQUIREMENTS CLAUSE FOR DETAILS                      LEVEL PRESERVATION: Commercial                      LEVEL PACKING: Commercial</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u></p> <table border="1"> <thead> <tr> <th>DOC</th> <th>SUPPL</th> <th>REL CD</th> <th>MILSTRIP</th> <th>ADDR</th> <th>SIG CD</th> <th>MARK FOR</th> <th>TP CD</th> </tr> </thead> <tbody> <tr> <td>001</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <th>DEL REL CD</th> <th>QUANTITY</th> <th colspan="2">DAYS AFTER AWARD</th> <td colspan="4"></td> </tr> <tr> <td>001</td> <td>2</td> <td colspan="2">0330</td> <td colspan="4"></td> </tr> <tr> <td>002</td> <td>2</td> <td colspan="2">0360</td> <td colspan="4"></td> </tr> <tr> <td>003</td> <td>1</td> <td colspan="2">0390</td> <td colspan="4"></td> </tr> </tbody> </table> <p>FOB POINT: Origin</p> <p>SHIP TO:</p>	DOC	SUPPL	REL CD	MILSTRIP	ADDR	SIG CD	MARK FOR	TP CD	001								DEL REL CD	QUANTITY	DAYS AFTER AWARD						001	2	0330						002	2	0360						003	1	0390						5	EA	\$ _____	\$ _____
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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT																																																																														
0004	UTILITY																																																																																		
0004BA	<p><u>JLTV UTILITY VEHICLES (ARMY)</u></p> <p>COMMODITY NAME: UTILITY                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>CLIN 0004BA is IAW Section C.X.X</p> <p>Installed Kits for these vehicles are on CLIN 0008BA.</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u></p> <p>PACKAGING/PACKING/SPECIFICATIONS:                      SEE PACKAGING REQUIREMENTS CLAUSE FOR DETAILS                      LEVEL PRESERVATION: Commercial                      LEVEL PACKING: Commercial</p> <p><u>Inspection and Acceptance</u></p> <p>INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u></p> <table border="1"> <thead> <tr> <th>DOC</th> <th>SUPPL</th> <th colspan="4"></th> </tr> <tr> <th>REL CD</th> <th>MILSTRIP</th> <th>ADDR</th> <th>SIG CD</th> <th>MARK FOR</th> <th>TP CD</th> </tr> </thead> <tbody> <tr> <td>001</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <th>DEL REL CD</th> <th>QUANTITY</th> <th colspan="4">DAYS AFTER AWARD</th> </tr> <tr> <td>001</td> <td>1</td> <td colspan="4">0300</td> </tr> <tr> <td>002</td> <td>5</td> <td colspan="4">0330</td> </tr> <tr> <td>003</td> <td>8</td> <td colspan="4">0360</td> </tr> <tr> <td>004</td> <td>3</td> <td colspan="4">0390</td> </tr> <tr> <td>005</td> <td>6</td> <td colspan="4">0420</td> </tr> <tr> <td>006</td> <td>10</td> <td colspan="4">0450</td> </tr> <tr> <td>007</td> <td>15</td> <td colspan="4">0480</td> </tr> <tr> <td>008</td> <td>12</td> <td colspan="4">0510</td> </tr> <tr> <td>009</td> <td>5</td> <td colspan="4">0540</td> </tr> </tbody> </table> <p>FOB POINT: Origin</p> <p>SHIP TO:</p>	DOC	SUPPL					REL CD	MILSTRIP	ADDR	SIG CD	MARK FOR	TP CD	001						DEL REL CD	QUANTITY	DAYS AFTER AWARD				001	1	0300				002	5	0330				003	8	0360				004	3	0390				005	6	0420				006	10	0450				007	15	0480				008	12	0510				009	5	0540				65	EA	\$ _____	\$ _____
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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013	TEST SUPPORT				
0013AA	<p><u>TEST SUPPORT</u></p> <p>SERVICE REQUESTED: TEST SUPPORT CLIN CONTRACT TYPE: Firm Fixed Price</p> <p>This CLIN is IAW the paragraphs in Section C: C.X.X</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u></p>				\$ _____

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013BA	<p><u>TEST SUPPORT</u></p> <p>SERVICE REQUESTED: TEST SUPPORT CLIN CONTRACT TYPE: Firm Fixed Price</p> <p>This CLIN is IAW the paragraphs in Section C: C.X.X</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u></p>				\$ _____
0014	SEPM				
0014BA	<p><u>SYSTEM ENGINEERING / PROGRAM MANAGEMENT (SEPM)</u></p> <p>SERVICE REQUESTED: SEPM CLIN CONTRACT TYPE: Firm Fixed Price</p> <p>This CLIN is IAW the following paragraphs in Section C: C.X.X</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u></p>				\$ _____

CONTINUATION SHEET

Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-14-R-0039 MOD/AMD

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0101	GENERAL PURPOSE				
0101AA	<p>JLTV GENERAL PURPOSE VEHICLES (USMC)</p> <p>COMMODITY NAME: GENERAL PURPOSE                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>CLIN 0101AA is IAW Section C.X.X</p> <p>Installed Kits for these vehicles are on CLIN 0105AA.</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u>                      PACKAGING/PACKING/SPECIFICATIONS:                      SEE PACKAGING REQUIREMENTS CLAUSE FOR DETAILS                      LEVEL PRESERVATION: Commercial                      LEVEL PACKING: Commercial</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u>                      DOC SUPPL                      REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD                      001                      DEL REL CD QUANTITY DAYS AFTER AWARD                      001 2 0300</p> <p>FOB POINT: Origin</p> <p>SHIP TO:</p>	2	EA	\$ _____	\$ _____

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0101BA	<p>JLTV GENERAL PURPOSE VEHICLES (USMC)</p> <p>COMMODITY NAME: GENERAL PURPOSE                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>CLIN 0101BA is IAW Section C.X.X</p> <p>Installed Kits for these vehicles are on CLIN 0105BA.</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u>                      PACKAGING/PACKING/SPECIFICATIONS:                      SEE PACKAGING REQUIREMENTS CLAUSE FOR DETAILS                      LEVEL PRESERVATION: Commercial                      LEVEL PACKING: Commercial</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u>                      DOC SUPPL                      REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD                      001                      DEL REL CD QUANTITY DAYS AFTER AWARD                      001 1 0330                      002 2 0360                      003 2 0390</p> <p>FOB POINT: Origin</p> <p>SHIP TO:</p>	5	EA	\$ _____	\$ _____

CONTINUATION SHEET

Reference No. of Document Being Continued  
 PIIN/SIIN W56HZV-14-R-0039 MOD/AMD

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0102	HEAVY GUNS CARRIER				
0102AA	<p>JLTV HEAVY GUNS CARRIER VEHICLES (USMC)</p> <p>COMMODITY NAME: HEAVY GUNS CARRIER                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>CLIN 0102AA is IAW Section C.X.X</p> <p>Installed Kits for these vehicles are on CLIN 0106AA</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u>                      PACKAGING/PACKING/SPECIFICATIONS:                      SEE PACKAGING REQUIREMENTS CLAUSE FOR DETAILS                      LEVEL PRESERVATION: Commercial                      LEVEL PACKING: Commercial</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u>                      DOC SUPPL                      REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD                      001                      DEL REL CD QUANTITY DAYS AFTER AWARD                      001 1 0420</p> <p>FOB POINT: Origin</p> <p>SHIP TO:</p>	1	EA	\$ _____	\$ _____

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0103	CLOSE COMBAT WEAPONS CARRIER				
0103AA	<p>JLTV CLOSE COMBAT WEAPONS CARRIER VEHICLES (USMC)</p> <p>COMMODITY NAME: CLOSE COMBAT WEAPONS CARRIER                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>CLIN 0103AA is IAW Section C.X.X</p> <p>Installed Kits for these vehicles are on CLIN 0107AA.</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u>                      PACKAGING/PACKING/SPECIFICATIONS:                      SEE PACKAGING REQUIREMENTS CLAUSE FOR DETAILS                      LEVEL PRESERVATION: Commercial                      LEVEL PACKING: Commercial</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u>                      DOC SUPPL                      REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD                      001                      DEL REL CD QUANTITY DAYS AFTER AWARD                      001 1 0300</p> <p>FOB POINT: Origin</p> <p>SHIP TO:</p>	1	EA	\$ _____	\$ _____

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT												
0104	UTILITY																
0104AA	<p>JLTV UTILITY VEHICLES (USMC)</p> <p>COMMODITY NAME: UTILITY                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>CLIN 0104AA is IAW Section C.X.X</p> <p>Installed Kits for these vehicles are on CLIN 0108AA.</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u>                      PACKAGING/PACKING/SPECIFICATIONS:                      SEE PACKAGING REQUIREMENTS CLAUSE FOR DETAILS                      LEVEL PRESERVATION: Commercial                      LEVEL PACKING: Commercial</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u>                      DOC SUPPL                      REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD                      001</p> <table border="1"> <thead> <tr> <th>DEL REL CD</th> <th>QUANTITY</th> <th>DAYS AFTER AWARD</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>1</td> <td>0300</td> </tr> <tr> <td>002</td> <td>2</td> <td>0330</td> </tr> <tr> <td>003</td> <td>1</td> <td>0420</td> </tr> </tbody> </table> <p>FOB POINT: Origin</p> <p>SHIP TO:</p>	DEL REL CD	QUANTITY	DAYS AFTER AWARD	001	1	0300	002	2	0330	003	1	0420	4	EA	\$ _____	\$ _____
DEL REL CD	QUANTITY	DAYS AFTER AWARD															
001	1	0300															
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CONTINUATION SHEET

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 PIIN/SIIN W56HZV-14-R-0039 MOD/AMD

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0112	TEST HARDWARE				
0112AA	<p><u>TEST HARDWARE</u></p> <p>COMMODITY NAME: TEST HARDWARE                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>This CLIN is IAW the following paragraphs in Section C:                      C.X.X</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u>                      DOC SUPPL  <u>REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD</u>                      001</p> <p>FOB POINT: Origin</p> <p>SHIP TO:</p>			\$ _____	\$ _____

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0113	TEST SUPPORT				
0113AA	<p><u>TEST SUPPORT</u></p> <p>SERVICE REQUESTED: TEST SUPPORT CLIN CONTRACT TYPE: Firm Fixed Price</p> <p>This CLIN is IAW the paragraphs in Section C: C.X.X</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u></p>				\$ _____

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0113BA	<p><u>TEST SUPPORT</u></p> <p>SERVICE REQUESTED: TEST SUPPORT CLIN CONTRACT TYPE: Firm Fixed Price</p> <p>This CLIN is IAW the paragraphs in Section C: C.X.X</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u></p>				\$ _____

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0114	SEPM				
0114BA	<p><u>SYSTEM ENGINEERING / PROGRAM MANAGEMENT (SEPM)</u></p> <p>SERVICE REQUESTED: SEPM CLIN CONTRACT TYPE: Firm Fixed Price</p> <p>This CLIN is IAW the following paragraphs in Section C: C.X.X</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u></p>				\$ _____

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
9000	<p><u>CONTRACT DATA REQUIREMENTS LIST (EXHIBIT A)</u></p> <p>CLIN 9000 is Not Separately Priced</p> <p>The contractor shall prepare and deliver the data submission in accordance with the requirements, quantities and schedule set for in Exhibit A - Contract Data Requirements List.</p> <p>(End of narrative A001)</p>				
9001	<p><u>CONTRACT DATA REQUIREMENTS LIST (EXHIBIT B)</u></p> <p>CLIN 9001 is Not Separately Priced</p> <p>The contractor shall prepare and deliver the data submission in accordance with the requirements, quantities and schedule set for in Exhibit B - Contract Data Requirements List.</p> <p>(End of narrative A001)</p>				
9002	<p><u>CONTRACT DATA REQUIREMENTS LIST (EXHIBIT C)</u></p> <p>CLIN 9002 is Not Separately Priced</p> <p>The contractor shall prepare and deliver the data submission in accordance with the requirements, quantities and schedule set for in Exhibit C - Contract Data Requirements List.</p> <p>(End of narrative A001)</p>				
9003	<p><u>CONTRACT DATA REQUIREMENTS LIST (EXHIBIT D)</u></p> <p>CLIN 9003 is Not Separately Priced</p> <p>The contractor shall prepare and deliver the data submission in accordance with the requirements, quantities and schedule set for in Exhibit D - Contract Data Requirements List.</p> <p>(End of narrative A001)</p>				

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
9004	<p><u>CONTRACT DATA REQUIREMENTS LIST (EXHIBIT E)</u></p> <p>CLIN 9004 is Not Separately Priced</p> <p>The contractor shall prepare and deliver the data submission in accordance with the requirements, quantities and schedule set for in Exhibit E - Contract Data Requirements List.</p> <p>(End of narrative A001)</p>				

**CONTINUATION SHEET****Reference No. of Document Being Continued**

Page 28 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

## SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
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C-1	52.209-4020 (TACOM)	ANTI-TERRORISM (AT) LEVEL I TRAINING REQUIREMENT	OCT/2013
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All contractor employees, including subcontractor employees, requiring access to Army installations, facilities, or controlled access areas shall complete AT Level I awareness training within 60 calendar days after contract start date or effective date of incorporation of this requirement into the contract, whichever applies. The contractor shall submit certificates of completion for each contractor employee and subcontractor employee requiring access to Army installations, facilities, or controlled access areas to the COR (or to the contracting officer, if a COR is not assigned) within 60 calendar days after completion of training AT Level I awareness training is available at <https://atlevel1.dtic.mil/at>.

C-2	52.209-4022 (TACOM)	iWATCH TRAINING	JUN/2012
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The contractor and all associated subcontractors shall brief all employees on the local iWATCH program (training standards provided by the requiring activity Anti-Terrorism Officer (ATO)). This locally developed training will be used to inform employees of the types of behavior to watch for and instruct employees to report suspicious activity to the COR. This training shall be completed within [XX]\*\* calendar days of contract award and within [YY]\*\* calendar days of new employees commencing performance, with the results reported to the COR no later than [XX]\*\* calendar days after contract award.

(End of Clause)

C-3	52.204-4021 (TACOM)	CONTRACTOR EMPLOYEES WHO REQUIRE ACCESS TO GOVERNMENT INFORMATION SYSTEMS	JUN/2012
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All contractor employees shall be registered in the ATCTS (Army Training Certification Tracking System) at commencement of services and must successfully complete the DoD Information Assurance Awareness training prior to access to the information system, and annually thereafter.

(End of Clause)

C-4	52.209-4021 (TACOM)	ANTI-TERRORISM (AT) AWARENESS TRAINING REQUIREMENT FOR CONTRACTOR PERSONNEL TRAVELING OVERSEAS	JUN/2012
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Contractor employees and associated subcontractor employees shall receive government-provided Anti-Terrorism (AT) awareness training specific to the area of responsibility (AOR) as directed by AR 525-13. Specific AOR training content is to be directed by the combatant commander, with the unit Anti-Terrorism Officer (ATO) being the local point of contact.

(End of Clause)

C-5	52.209-4023 (TACOM)	OPSEC TRAINING REQUIREMENT	JUN/2012
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Per AR 530-1, Operations Security, new contractor employees must complete Level I OPSEC training within 30 calendar days of reporting for duty. All contractor employees must complete annual OPSEC awareness training.

(End of Clause)

C-6	52.237-4000	CONTRACTOR MANPOWER REPORTING (CMR)	FEB/2013
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**Name of Offeror or Contractor:**

(TACOM)

The Office of the Assistant Secretary of the Army (Manpower & Reserve Affairs) operates and maintains a secure Army data collection site where the contractor will report ALL contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract via secure data collection site. The contractor is required to completely fill in all required data fields in the format using the following web address: <https://cmra.army.mil> . The required information includes the following:

- (1) Contracting Office, Contracting Officer, Contracting Officer's Technical Representative;
- (2) Contract number, including task and delivery order number;
- (3) Beginning and ending dates covered by reporting period;
- (4) Contractor name, address, phone number, e-mail address, identity of contractor employee entering data;
- (5) Direct labor hours (including sub-contractors);
- (6) Direct labor dollars paid this reporting period (including sub-contractors);
- (7) Total payments (including sub-contractors);
- (8) Predominant Federal Service Code (FSC) reflecting services provided by contractor (and separate predominant FSC for each sub-contractor if different);
- (9) Data collection cost;
- (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);
- (11) Locations where contractor and sub-contractors 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);
- (12) Presence of deployment or contingency contract language; and
- (13) Number of contractor and sub-contractor employees deployed in theater this reporting period (by country).

Reporting inputs will be for the labor executed during the period of performance during each Government fiscal year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year, beginning with 2013. Contractors may direct questions to the help desk at : <https://cmra.army.mil>.

End of Clause]

## TABLE OF CONTENT

## 1 GENERAL

## 1.1 SYSTEM REQUIREMENT

## 1.2 PROGRAM STRUCTURE &amp; MANAGEMENT

## 1.3 MEETINGS/AUDITS/ASSESSMENTS/REVIEWS

## 1.4 BUSINESS MANAGEMENT

## 1.5 PROGRAM PROTECTION

## 1.6 GOVERNMENT FURNISHED EQUIPMENT (GFE)/ INTEGRATION AND GOVERNMENT FURNISHED INFORMATION (GFI)

## 2 PRODUCTION

## 2.1 SYSTEMS ENGINEERING

## 2.2 RELIABILITY, AVAILABILITY, AND MAINTAINABILITY (RAM) PROGRAM

50

## 2.3 INTEGRATED PRODUCT SUPPORT (IPS)

**Name of Offeror or Contractor:**

2.4 VERIFICATION AND VALIDATION ACTIVITIES

2.5 TEST DEFICIENCIES AND FAILURES

2.6 TECHNICAL DATA PACKAGE PURCHASE OPTION

3 SYSTEM TECHNICAL SUPPORT

3.1 GENERAL

3.2 SYSTEM ENGINEERING and TECHNICAL EFFORT DESCRIPTION

3.3 INTEGRATED PRODUCT SUPPORT

3.4 TEST REQUIREMENTS

4 INTERIM CONTRACTOR SUPPORT

4.1 INTERIM CONTRACTOR SUPPORT OBJECTIVES

4.2 PERIOD OF PERFORMANCE

4.3 CONTRACTING OFFICERS REPRESENTATIVE and CONTRACTING OFFICER TECHNICAL REPRESENTATIVE

4.4 TECHNICAL SUPPORT AND SERVICES

4.5 ICS METRICS REPORTING

4.6 GOVERNMENT PROVISIONS

4.7 CONTRACTOR PROVISIONS

4.8 SPARES and PARTS MANAGEMENT

4.9 FIELD LOGISTICS MANAGEMENT (FLM)

4.10 INVENTORY MANAGEMENT

4.11 WARRANTY MANAGEMENT

4.12 CONFIGURATION MANAGEMENT

4.13 SOFTWARE UPDATES

4.14 CYBERSECURITY VULNERABILITY MANAGEMENT

5 TOTAL PACKAGE FIELDING

5.1 GENERAL

5.2 GOVERNMENT FURNISHED ITEMS AND SERVICES

5.3 CONTRACTOR FURNISHED ITEMS AND RESPONSIBILITIES

5.4 TOTAL PACKAGE FIELDING TASKS

5.5 PHYSICAL SECURITY PLAN

5.6 SAFETY PLAN

ID : SOWC-2741

1 GENERAL

This Statement of Work (SOW) encompasses the initial Production and Deployment phase requirements of the Joint Light Tactical Vehicle

**Name of Offeror or Contractor:**

(JLTV) program.

This SOW consists of the supplies and services required for Vehicle Production (including trailers, kits, and test assets), Program Support (including Program Management, Configuration Management, Integrated Product Support (IPS), and Test Support), System Technical Support (STS), Interim Contractor Support (ICS), Total Package Fielding (TPF), and options to procure Technical Data Package (TDP) for JLTV Family of Vehicles (FoV).

The Contractor, as an independent Contractor and not as an agent or employee of the US Government, shall furnish all data, supporting labor, supplies, services, facilities and equipment as required under this contract.

ID : SOWC-2742

**1.1 SYSTEM REQUIREMENT**

The Contractor shall produce the JLTV FoV in conformance with the requirements of the JLTV Purchase Description (Attachment 0001).

ID : SOWC-2744

**1.1.1 JLTV FoV Definition**

The term "JLTV FoV" is defined as being comprised of two variants, a four-seat and a two-seat variant, a companion trailer (JLTV-T) and associated kits. The four-seat variant has two Base Vehicle Platforms: the General Purpose (GP) Platform and the Close Combat Weapons Carrier (CCWC) Platform. The two-seat variant has one base vehicle platform: the Utility (UTL).

Each base vehicle platform will be configured as a Mission Package Configuration through the installation of Mission Packages, as defined in Annex K of the JLTV Purchase Description (Attachment 0001).

**JLTV Mission Package Configurations:**

- M1280 General Purpose (JLTV-GP)
- M1278 Heavy Guns Carrier (JLTV-HGC)
- M1281 Close Combat Weapons Carrier (JLTV-CCWC)
- M1279 Utility (JLTV-UTL)

ID : SOWC-17

**1.2 PROGRAM STRUCTURE & MANAGEMENT**

The Contractor shall define and ensure Key Roles, such as Project Manager(s) and IPT leads, are staffed with personnel of commensurate education, training, work experience, and technical training necessary to effectively and efficiently perform required tasks. The Contractor shall present their organizational Key Roles at the Start of Work Meeting (SOWM) and shall discuss the plan for communicating and transitioning personnel changes. When the Contractor intends to change the personnel working in Key Roles, the Contractor shall to the maximum extent possible, provide 14 days notice to the Procurement Contracting Officer and the Contracting Officer Representative (COR) prior to the personnel transition. Organizational Changes shall be briefed during IPT, PM IPT, and PMR meetings.

ID : SOWC-18

**1.2.1 Integrated Product Teams**

For purposes of this Contract, any joint deliberative or task-focused body, regardless of its formal or informal title, such as "Working Group," or "Integrated Design Team", shall be considered an Integrated Product (or Process) Team, or "IPT". The Contractor shall form IPTs as indicated in the SOW to interact with the Government Program Manager's office during the term of this contract. IPT meetings shall be held monthly or as mutually agreed between the Government and Contractor. The Contractor shall be responsible for recording and providing actions during the daily and weekly IPT meetings. For monthly IPT meetings, the Contractor shall develop all agendas and meeting minutes (reference A001 CDRLs SOWC 34, Read Ahead Agenda, and A002 CDRL SOWC 36, Minutes).

ID : SOWC-25

**1.2.2 Integrated Master Plan**

The Contractor shall manage the JLTV program IAW the Government provided Integrated Master Plan (IMP) (Attachment 0002 SOWC 25, IMP), and the Integrated Master Schedule (IMS) (reference A004 CDRL SOWC 2785, IMS). The IMP outlines significant accomplishments and Exit Criteria for the program's major events that shall be satisfied to accomplish the work under this contract through a Full Rate Production decision. The Contractor shall report on program progress at each Program Management Review, and selected meetings, audits, assessments, and reviews in accordance with (IAW) the IMP.

ID : SOWC-2785

**1.2.3 Integrated Master Schedule (IMS)**

The Contractor shall develop, maintain, and deliver an IMS which shall be directly traceable to the IMP and be consistent with the Contract Work Breakdown Structure (CWBS) (reference A008 CDRL SOWC 2768, Contract Work Breakdown Schedule) and time-phasing of the Performance Measurement Baseline. The IMS shall contain logically networked, detailed program activities encompassing contract milestones, events, decision points, critical subcontract task/hand-offs, external dependencies, vehicle production, Government Furnished Equipment, Government Furnished Information, ICS work requirements, exit criteria, discrete tasks, and planning packages to budget for early baseline planning, from contract award through FRP decision or approval.

**Name of Offeror or Contractor:**

The IMS shall also incorporate all subcontractor-discrete work as tasks within the prime IMS on the following components: Armor, Transmission and Driveline, Suspension, Engine, C4I (Command, Control, Communications, Computers, and Intelligence), Trailers, and IPS. Additionally, all efforts performed by a Subcontractor that is awarded a subcontract(s) that is equal to or exceeds 10 percent of the value of this contract shall also be incorporated as tasks within the prime IMS.

The IMS shall clearly identify critical path activities and reflect risk mitigation tasks. (A004 CDRL SOWC 2785, IMS)

ID : SOWC-26

**1.2.4 Internet-Based Collaboration**

The JLTV Integrated Data Environment (IDE) consists of internet-based collaboration tools (defined below) that shall be used to facilitate information sharing and collaboration within a secure Government server environment that provides controlled, distributed access to JLTV program information, both released and in-work. Types of information that shall be processed and maintained within the IDE will include JLTV program documents, reports, program management data, meeting-related information, modeling and simulation/analysis data, pertinent manufacturing information, and Government and Contractor test data, consistent with the JLTV Security Classification Guide (reference Attachment 0003 SOWC 566, DD254). Any posting to the IDE is considered a data deliverable in the context of DFARS Data Rights clauses including 252.227-7013 and 252.227-7014. The IDE shall be used only for sharing unclassified/FOUO information. When submitting classified information, follow the NISPOM Chapter 5 instructions and DD Form 254 (reference Attachment 0003 SOWC 566, DD254) using the below mailing address:

SFAE-CSS-JL

6501 E. 11 Mile Rd, MS 640  
Warren, MI 48397

The Contractor shall notify appropriate Government personnel via e-mail when new or updated documents are posted to a collaboration environment. The notification email shall include a hyperlink to the location of the posted content. Correspondence to the Procuring Contracting Officer or organizations outside JPO JLTV (DCMA/DCAA) shall not be submitted via an internet-based collaboration tool without prior authorization.

IDE collaboration tools: The Contractor shall use the JLTV SharePoint server to facilitate unclassified, secure internet-based information sharing between JLTV program participants. SharePoint will also serve as the primary means of submitting unclassified/FOUO Contract Data Requirements List (CDRL) items, unless otherwise stated within a specific CDRL item. The Contractor shall conduct Contractor-Government internet conferencing (web meetings) using Government approved systems such as the Defense Connect Online (DCO) conferencing tool. The Contractor shall use VDLs [VISION (Versatile Information Systems Integrated On-Line Nationwide) Digital Library System] to access unclassified data from Government testing, and Secret VDLs for classified test data. The Government will provide details on specific IDE tools, requirements for access, and approach for use at the SOWM.

The Government will sponsor Army Knowledge Online (AKO), SharePoint, DCO, VDLs, SVDLS, and other required accounts for Contractor use. Details will be provided at the SOWM. The Government can only sponsor accounts for U.S. Citizens. The Contractor shall provide names, contact information, level of access (upload or download), and training required for personnel requiring access to these tools NLT SOWM meeting, for all systems except VDLs. The list of Contractor personnel requiring VDLs access shall be provided to the Government 60 days prior to the Test Readiness Review (TRR). Request for access to any other Government systems shall go through the PCO.

ID : SOWC-5257

**1.2.5 Common Access Cards Automated Contractor Verification System**

ID : SOWC-5258

**1.2.5.1 CAC Applications**

The Contractor shall appoint an Information Assurance Officer to process Common Access Card (CAC) applications for its employees and Subcontractor employees in accordance with FAR 52.204-9, Personal Identity Verification of Contractor Personnel, DoD Directive 8190.3 Smart Card Technology and DoD Instruction 8520.2 Public Key Infrastructure and Public Key Encrypt.

ID : SOWC-5260

**1.2.5.2 Requests for CAC**

The Contractor shall submit requests for CAC via email to the COR.

ID : SOWC-5261

**1.2.5.3 Contractor Verification System**

The Government will establish a Contractor Verification System (CVS) application account for each CAC request and provide each Contractor and Subcontractor employee a USERID and Password via email.

ID : SOWC-5262

**1.2.5.4 CVS Access**

The Contractors employees shall access the CVS account and complete the CAC application.

**Name of Offeror or Contractor:**

ID : SOWC-5263

## 1.2.5.5 CAC Request Status

The Government will inform the Contractors employee via email the status of the CAC request. The status will be one of the following: (1) Approved; Contractor shall proceed to nearest Real-Time Automated Personnel Identification System (RAPID)/Defense Enrollment and Eligibility Reporting System (DEERS) location to obtain CAC. (2) Returned; additional information or correction to application required by Contractor employee. (3) Rejected; Government in separate correspondence will provide reason(s) for rejection.

ID : SOWC-5264

## 1.2.5.6 Approved and Rejected Applications

Contractor shall maintain records of all approved and rejected CAC applications.

ID : SOWC-5266

## 1.2.5.7 CAC Period of Performance

Issued CACs may be for a period of performance not longer than three (3) years or the contract performance completion date (inclusive of all options), whichever is earlier. If a requirement for a CAC exists beyond three (3) years, the Contractor shall submit a new request.

ID : SOWC-5265

## 1.2.5.8 CAC Return

The Contractor shall return issued CACs to the DEERS office IAW FAR 52.204-. The contractor shall notify the JPO JLTV of all CACs returned to the DEERS Office.

ID : SOWC-1163

## 1.2.6 Data Deliverables

The Contractor shall deliver to the Government all information, technical data and software required under this Scope of Work (SOW). The Contractor shall mark all Technical data and software deliverables IAW DFARS 252.227-7013, 252.227-7014, and 252.227-7015.

All CDRLs requiring data related to Mission Package Configurations shall specifically address any unique differences in the Mission Package Configurations. One CDRL submission may address all Mission Package Configurations.

The Contractor shall deliver all data in the English language.

All electronic data submitted shall be in an editable Microsoft (MS) Office Suite and Windows 2007 compatible format unless specified otherwise in the CDRL.

The Contractor shall annotate the following information in the electronic cover letter for the submission:

Contract Number

CDRL/Revision Number and Item (e.g. A001-002 TRANS RPT)

Delivery Type (Draft, Final)

Due Date

Submittal Date

Contractor Name

The Contractor shall include a revision record that identifies the corresponding revision annotation, the due date, and the description of the change For example: A001-002 is the second submission of CDRL A001.

All electronic data shall be submitted via SharePoint (see Internet-Based Collaboration section for details) unless specified differently in the CDRL.

The Contractor shall use the following naming convention for electronic files submitted:

CDRL Number

Revision Number

Delivery Type (Draft, Final)

Due Date

For example: A001-001\_Draft\_01Aug2012.doc

The Procuring Contracting Officer (PCO) or Contracting Officer Representative (COR) is the approving authority for all CDRLs delivered under this contract.

The Contractor shall make available to the Government the information used to create each CDRL and discuss that information at IPT meetings, Program Management Reviews (PMR), as well as major reviews IAW the IMP.

**Name of Offeror or Contractor:**

## 1.2.7 Internal Management Data Accession List

The contractor shall compile an index (an Internal Management Data Accession List (DAL)) that identifies contractor internal management data which has been generated by the contractor in compliance with the work effort described in the Statement of Work. For each of the listed contractor internal management data items, the DAL shall identify the format, content, and intended use of these data items resulting from the work tasks described in Section C. As the list of contractor internal reports and data items evolves over time, the contractor shall update the initial list of these internal reporting and management artifacts and deliver it to the Government in accordance with the CDRL (reference B031 CDRL SOWC 2929, DAL). These internally developed data items are in addition to the data deliverable requirements under the contract (CDRL items) and are not substitutes for data requirements that are contractually applied. Contractually required data deliverables do not need to be listed on the DAL. The Government may order internal management data items off the DAL at its' discretion and the contractor shall provide to the Government one electronic copy (and one hard-copy, if requested) at no additional cost to the Government. Contractor internal data items provided via the DAL shall be in contractor format and are not subject to Government approval.

ID : SOWC-32

## 1.3 MEETINGS/AUDITS/ASSESSMENTS/REVIEWS

ID : SOWC-33

## 1.3.1 Participation/Administration

The Contractor shall participate in the meetings, audits, assessments, and reviews required in this SOW. Where possible, face to face meetings shall be scheduled in tandem, or groups, to minimize personnel resources and travel expenses. Unless otherwise specified in the paragraphs below, all meetings, audits, assessments, and reviews shall be hosted by the Contractor. The Contractor's hosting duties and responsibilities shall consist of all functions (e.g. providing facility, sending invitations, media resources, security, minutes, hard copy materials) related to the preparation and execution of the meetings, audits, assessments, and reviews.

ID : SOWC-34

## 1.3.1.1 Agenda and Read-Ahead Packages

The Contractor shall submit an agenda and read-ahead package for all meetings, audits, assessments, and reviews in section C.1.3. If a meeting, audit, assessment, and review is listed in the IMP as an event, the agenda for that event shall, at a minimum, address the information necessary to accomplish the exit criteria in the IMP (reference Attachment 0002 SOWC 25, IMP).

Cost & IMS information may be included as an agenda item at meetings, conferences, and reviews to include discussion of contract progress and issues (performance goals, exit criteria, schedule progress, risks and mitigation, and cost impact). (A001 CDRL SOW 34, Agenda and Read-Ahead Package)

ID : SOWC-36

## 1.3.1.2 Minutes

The Contractor shall record and provide minutes for all meetings, audits, assessments, and reviews in section C.1.3 and otherwise called out in this contract. The Contractor's recorder shall be identified at the beginning of each event. (A002 CDRL SOW 36, Minutes)

ID : SOWC-37

## 1.3.1.3 Invitations

Government participants will be identified by the Government Program Office. The Contractor shall send invitations for all meetings, audits, assessments, and reviews in section C.1.3 and otherwise called out in this contract not less than seven (7) days prior to the event. Invitations are not required for daily and weekly meetings.

ID : SOWC-38

## 1.3.2 Start of Work Meeting

The Contractor shall conduct a Start of Work Meeting (SOWM), IAW TACOM Provision 52.204-2003 - Start of Work Meeting, at the Contractor's facility within 30 days after Contract Award. This meeting will introduce and align the Government and Contractor teams. The SOWM will consist of a SOW review and an IMS Review. For planning purposes, this meeting is anticipated to be a five consecutive day event.

The IMS review will verify the Contractor's use of a reliable performance baseline that includes the pertinent contract SOW, consistent with contract schedule requirements. At a minimum, the read-ahead package shall include:

- (a) A draft agenda including interview schedule, locations, and participants (w/title)
- (b) Program and Functional organizations, including names and titles of responsible individuals
- (c) Time phased staffing plan
- (d) Critical Path Analysis
- (e) Risk Register
- (f) Additional read-ahead requirements may be requested prior to the start of the review

ID : SOWC-4629

**Name of Offeror or Contractor:**

## 1.3.3 Program Management Level IPT Meetings

The Contractor shall conduct at a minimum monthly Program Management (PM) Level IPT Meetings. The PM Level IPT Meetings shall commence one month following the SOWM. The monthly PM Level IPT meetings will not be conducted on the months when a PMR is held. The meetings shall include Contractor program management personnel and working level IPT personnel to address cost, schedule, performance, risk status, and the Contractor shall be prepared for detailed discussion with the Government. Technical issues shall be presented in terms of performance requirements, design, exit criteria, schedule progress, risk and mitigation, and cost impact.

ID : SOWC-39

## 1.3.4 Program Management Review

The Contractor shall conduct quarterly PMRs, beginning with the first quarter after contract award. The PMRs shall include Contractor senior-level program management personnel. The Contractor shall present, at each PMR, cost, schedule, performance, and risk status and address the following:

- a. Program Overview and Status
- b. Business Management/Contract Review
- c. System Engineering
- d. Configuration Management
- e. Supportability & Logistics Review including IPS, ICS, and TPF.
- f. System Technical Support (STS)
- g. Schedule Reviews including Integrated Master Schedule (IMS) Review
- h. Test Program

The Contractor shall be prepared for a detailed discussion with the Government. Issues shall be presented in terms of performance goals, exit criteria, schedule progress, risks and mitigation, and cost impact. For planning purposes, these meetings are anticipated to be a one (1) day event.

ID : SOWC-4184

## 1.3.5 Systems Engineering Reviews

ID : SOWC-3190

## 1.3.5.1 Functional Baseline

ID : SOWC-40

## 1.3.5.1.1 Functional Baseline Review

The Contractor shall host and conduct a Functional Baseline Review (FBR) at or near the Contractor site NLT 30 days after Contract Award. The FBR shall be a line-by-line review of the JLTV Purchase Description (Attachment 0001), the Purchase Description Report (reference B042 CDRL SOW 89, PD Report) and review of the SEMP (reference B038 CDRL SOWC 4648, SEMP). For planning purposes, this meeting is anticipated to be a five (5) consecutive day event.

ID : SOWC-4162

## 1.3.5.2 Allocated Baseline

ID : SOWC-4161

## 1.3.5.2.1 Allocated Baseline Review

The Contractor shall host and conduct an Allocated Baseline Review (ABR) at or near the Contractor site NLT 60 days after Contract Award. The ABR will be a review of the draft System Level Design Document (SLDD) (reference B034 CDRL SOWC 4146, SLDD) and the changes to the configuration since the EMD Phase Design Understanding Review (DUR). The Contractor shall also itemize the relationship/traceability between the JLTV Purchase Description (Attachment 0001), CSDR Plan (reference Attachment 0004 SOWC 60, CSDR Plan), Contractor Work Breakdown Structure (CWBS) (A008 reference SOWC 2768, CWBS), SLDD, Product Baseline Index (PBLI) (reference B010 SOWC 212, PBLI). For planning purposes, this meeting is anticipated to be a two (2) consecutive day event.

ID : SOWC-3191

## 1.3.5.3 Product Baseline

ID : SOWC-2738

## 1.3.5.3.1 Product Baseline Review

The Contractor shall host and conduct a Product Baseline Review (PBR) at or near the Contractor site NLT 150 days after Contract Award. The Contractor shall brief and display the assembly level Technical Data Package (TDP) (reference SOWC 4147, TDP Package), System Level Design Document (SLDD) (reference B034 CDRL SOWC 4146, SLDD), and Product Baseline Index (PBLI) (reference B010 CDRL SOWC 212, PBLI). The SLDD and PBLI will be put under formal Configuration Management (CM), as defined in section C.2.2.1.5 (SOWC 211), after the PBR. The Government and Contractor will agree on the lowest level of the PBLI that will be under CM. For planning purposes, this meeting is anticipated to be a five (5) consecutive day event.

ID : SOWC-41

## 1.3.5.3.2 Initial Physical Configuration Audit

**Name of Offeror or Contractor:**

The Contractor shall perform an initial Physical Configuration Audit (PCA) 30 days after the delivery of the first vehicle not designated for Government testing per the Vehicle Equipment and System Integration Lab (SIL) Allocation Matrix (VEASAM) (Attachment 0056 SOWC 4659, VEASAM). The PCA shall be witnessed by Government to validate the as-built configuration matches the PBLI (reference B010 CDRL SOWC 212, PBLI) and TDP (reference SOWC 4147, TDP Package). The initial PCA will validate the assembly level of the Base Vehicle Platforms, trailers, Contractor Furnished Equipment (CFE) Kits, and 100% of the component level drawings. All parts, assemblies, and subassemblies for PCA shall be produced using the manufacturing assembly process, including production tooling and inspection procedures that will be followed during FRP. The initial PCA shall be considered complete when all the deficiencies identified are corrected by the Contractor and reviewed by the Government (reference B021 CDRL SOWC 4194, Configuration Audit Summary Report). The Contractor shall correct all discrepancies identified at the initial PCA at no cost to the Government and within the schedule specified in the PCA plan (reference B030 CDRL SOWC 2926, PCA Plan). Upon close out of the initial PCA, the TDP will be put under formal CM as defined in section C.2.2.1.5 (SOWC 211). For planning purposes, this audit is anticipated to be a 45 consecutive day event, not including correction of deficiencies, at the Contractor site.

ID : SOWC-2740

## 1.3.5.3.3 Final Physical Configuration Audit

The Contractor shall perform a final Physical Configuration Audit (PCA) 180 days after Production Qualification Testing (PQT) completion. The final PCA shall be witnessed by Government to validate the as-built configuration matches the PBLI (reference B010 CDRL SOWC 212, PBLI) and TDP (reference SOWC 4147, TDP Package). The final PCA will validate the assembly level of the Base Vehicle Platforms, trailers, Contractor Furnished Equipment (CFE) Kits, and 100% of the component level drawings since initial PCA. All parts, assemblies, and subassemblies for PCA shall be produced using the manufacturing assembly process, including production tooling and inspection procedures that will be followed during FRP. The final PCA shall be considered complete when all the deficiencies identified are corrected by the Contractor and reviewed by the Government (reference B021 CDRL SOWC 1210, Configuration Audit Summary Report). The Contractor shall correct all discrepancies identified at the final PCA at no cost to the Government and within the schedule specified in the PCA plan (reference B030 CDRL SOWC 2926, PCA Plan). Upon close out of the final PCA, the TDP will be put under formal CM as defined in section 2.2.1.4. For planning purposes, this audit is anticipated to be a 20 consecutive day event, not including correction of deficiencies, at the Contractor site.

ID : SOWC-5267

## 1.3.6 Supportability and Logistics Reviews

ID : SOWC-4224

## 1.3.6.1 Logistics Start of Work Meetings

The Contractor shall host separate Start of Work Meetings for Logistics Demonstration (Log Demo), Technical Manual Validation, and Technical Manual Verification meetings. The Logistics Start of Work Meetings shall occur NLT 30 days prior to the start of the events cited in this paragraph. Each Logistics Start of Work Meeting shall introduce and align the Government and Contractor Logistics teams, and consist of a SOW review and schedule review. For planning purposes, this meeting is anticipated to be a one (1) day event.

ID : SOWC-4225

## 1.3.6.2 In-Process Reviews

The Contractor shall host monthly In-Process Reviews (IPRs) to discuss all IPS related work effort. The Contractor shall brief and display portions of work accomplished to date for initial meeting and work accomplished since last IPR, answer questions about Contractor work processes, provide records of quality assurance reviews, and respond to Government comments regarding publications processes or work samples. The IPRs can be used to clarify requirements, provide guidance to the Contractor and to ensure the IPS data conforms to the SOW.

ID : SOWC-4226

## 1.3.6.3 Technical Publications Guidance Conference

The Contractor shall host a Technical Publications Guidance Conference at the conclusion of the Start of Work meeting. The purpose of this meeting is to review publications contract requirements (reference SOWC 4223), establish lines of communications, and address Contractor's questions. The Contractor shall present a publications schedule for Government concurrence and input to the Integrated Master Schedule (reference SOWC 4205).

ID : SOWC-4248

## 1.3.6.4 Provisioning Guidance Conference

The Provisioning Guidance Conference (PGC) shall be held immediately following the Technical Publication Guidance Conference. The purpose of the PGC is to ensure that the Contractor has a clear understanding of the contractual provisioning requirements (reference SOWC 4247) and to identify and reinforce the requirement for accurate, complete, and timely submission of provisioning data and information. The Contractor shall present a provisioning schedule for Government concurrence and input to the Integrated Master Schedule (reference SOWC 4205).

ID : SOWC-4249

## 1.3.6.5 Provisioning Conference and Logistics Support Analysis Records Review

The Contractor shall host the first Provisioning Conference and Logistics Support Analysis Records (LSAR) Review 90 calendar days after the Provisioning Guidance Conference to verify the LSA 036 records, Engineering Data for Provisioning (EDFP), Repair Parts and Special

**Name of Offeror or Contractor:**

Tools List (RPSTL) and part screening data, and any other contractor related data used to support the LSAR. The Contractor shall host subsequent Provisioning Conferences and LSAR Reviews once per quarter, or on dates mutually agreed to by the parties. The Contractor shall conduct a quarterly reconciliation of the Provisioning Master Record (PMR) & Logistics Product Data (LPD) database and update the provisioning records (reference SOWC 4210.

ID : SOWC-4650

**1.3.7 Quality Reviews**

ID : SOWC-4823

**1.3.7.1 Production and Product Quality Management Integrated Product Team Meetings**

The Contractor shall conduct daily, weekly, and monthly Production and Product Quality Management Integrated Product Team (PQM-IPT) meetings to coordinate overall Quality Planning and execution. The Contractor and Government shall establish the date, time, and duration of the PQM-IPT meetings at the SOWM. The PQM-IPT members will work together to generate cost saving and a Quality Assurance footprint to reduce program risk, improve readiness, support, and supportability-related system design. The Government PQM will serve as the Chairperson of the PQM-IPT meetings and the Contractor's Quality Manager shall serve as vice chairperson of the PQM-IPTs. The monthly PQM-IPT meeting shall coincide with the monthly PMR. The Government reserves the right to adjust the frequency of these meetings based on program execution and risk.

The Contractor shall be responsible for recording and tracking actions from daily and weekly meetings. For the Monthly PQM-IPT, the Contractor shall develop all agendas and meeting minutes (reference A001 CDRLs SOWC 34, Read Ahead Agenda, and A002 CDRL SOWC 36, Minutes) unless otherwise stated in the IPT Charter.

ID : SOWC-4824

**1.3.7.2 Production and Product Quality Council Meetings**

The Contractor shall conduct Quarterly JLTVM Quality Council meetings at the Contractor's facility. This meeting will be known as the JLTVM Quality Council (QC) IPT meeting. This meeting shall be held in conjunction, when possible, with other key meetings and Program events. The Contractor shall coordinate the Quality Council meeting agenda issues, topics and schedules with the Government PQM-IPT members. The Contractor shall prepare and deliver minutes of the Quality Council meetings (reference A002 CDRL SOWC 36, Minutes). The minutes shall contain as a minimum, schedules; detailed results and proceedings of discussions, assessments, and guidance; action items; an attendees roster; and all presentations. Action items shall be assigned prior to the close of the meeting.

ID : SOWC-4825

**1.3.7.3 Corrective Action Review Team Meetings**

The Contractor shall support weekly Corrective Action Review Team (CART) meetings that shall commence with the Start of Government testing. The CART is the Government group responsible for reviewing the Contractor's Failure Analysis Corrective Action Reports (FACARs) (reference D011 CDRL SOWC 4713, FACAR), including root cause analysis and proposed fixes. The CART may provide feedback to the Contractor regarding its root cause analysis methodology. Any design modifications that are implemented shall be implemented across all JLTVM FoV test assets, unless specifically waived by the Government. The JLTVM PMO will chair the CART meetings. The CART meetings will be weekly, one day events. The Contractor shall take proactive (preventive) measures that will be instituted to reduce the probability of nonconformance, and ensure corrective protocols will be established to mitigate risks and prevent recurrence (through root cause elimination) when non-conforming performance is identified.

The Government will provide official notification on all CART Meeting schedules at the inception of each test. The Contractor's corrective action team membership shall directly correlate with the Government CART members, as applicable, to reflect all relevant CART functions to include Quality, RAM, Logistics, Maintenance, Systems Engineering, Safety, Transportability and MANPRINT/Human Factors. CART meeting agendas shall be established by the Contractor and approved by the Government. Meeting agendas will include a list of all Test Incident Reports (TIRs) numbers to be discussed by category. The Contractor shall provide official CART meeting minutes (reference A002 CDRL SOWC 36, Minutes).

ID : SOWC-49

**1.3.8 Test Reviews**

ID : SOWC-50

**1.3.8.1 Contractor Conducted Pretest Readiness Review**

The Contractor shall conduct a Pretest Readiness Review (Pre-TRR) to present to the Government the readiness of the vehicles to enter into Government system level testing. The Pre-TRR shall be held at or near the Contractor build site, at least seven days prior to the Government TRR. The Pre-TRR shall address the content detailed in the IMP (Attachment 0002 IMP) and the Pre-TRR Checklist (Attachment 053 Pre-TRR Checklist). For planning purposes, this meeting is anticipated to be a two (2) day event.

ID : SOWC-51

**1.3.8.2 Government Conducted Test Readiness Review**

The Contractor shall support the Government Test Readiness Review (TRR), conducted at or in the vicinity of Aberdeen Proving Ground (APG). The Government TRR is anticipated to be held no more than seven days prior to the first vehicle delivery and will assess both the Contractor's and the Government's test readiness. The Contractor shall be prepared to support the TRR with all of the information prepared for the Pre-TRR. For planning purposes, this meeting is anticipated to be a one (1) day event.

**Name of Offeror or Contractor:**

ID : SOWC-4719

## 1.3.8.3 Operational Test Readiness Review

The Contractor shall support (provide briefings, data, documents as required) the Government Operational Test Readiness Review (OTRR), conducted at or in the vicinity of MOT&E site. The Government OTRR is anticipated to be held no less than seven days prior to MOT&E and will assess readiness to enter MOT&E. The Contractor shall be prepared to support the OTRR with all of the information prepared for the Pre-TRR and TRR. For planning purposes, this meeting is anticipated to be a one (1) day event.

ID : SOWC-4720

## 1.3.8.4 Reliability Availability Maintainability Scoring Conferences

The Contractor shall attend and participate in the monthly Government Reliability Availability Maintainability (RAM) Scoring Conference meetings by presenting information, evidence, or opinions that the Government will consider when scoring test incidents. Each Scoring Conference is anticipated to be two days in duration. The Contractor shall develop and deliver a RAM Scoring Conference Package (D012 CDRL SOWC 4720, RAM Scoring Conference Package).

ID : SOWC-4721

## 1.3.8.5 Reliability Availability Maintainability Assessment Conferences

The Contractor shall attend and participate in all Government RAM Assessment Conferences, which will occur during Government testing. The Contractor's participation shall consist of presenting information detailed in D013 CDRL SOWC 4721, RAM Assessment Conference Package. The Government will provide Contractor notification of the Assessment Conference at least 10 business days prior to the event. For planning purposes, it is expected that three Assessment Conferences will be held, for a duration of two days each. Prior to each Assessment Conference, the Contractor shall prepare and provide an Assessment Conference Package (D013 CDRL SOWC 4721, RAM Assessment Conference Package).

ID : SOWC-52

## 1.3.9 Manufacturing Readiness Assessment

The Contractor shall conduct a Manufacturing Readiness Assessment (MRA) at or near the Contractor manufacturing facility at least 60 days prior to fourth option period in support of the Full Rate Production (FRP) decision. The Contractor shall use the Department of Defense (DoD) Manufacturing Readiness Level (MRL) Deskbook as a guide for the MRA event. The MRA shall include the prime Contractor as well as critical and major Subcontractors as mutually identified and agreed upon by both parties. The Contractor shall evaluate its manufacturing readiness in preparation for the FRP decision with the Manufacturing Readiness Level (MRL) 9 thread questions identified in Attachment 0009 SOWC 52, MRA Guide. The Contractor shall answer each question in Attachment 0009 SOWC 52, MRA Guide and shall provide sufficient and objective evidence for each question to substantiate a MRL 9 rating. If the Contractor is rated lower than a MRL 9 for any question in Attachment 0009 SOWC 52, MRA Guide, the Contractor shall provide its plan to reach MRL 9 prior to the award of the fourth (4) option period. For planning purposes, the MRA is anticipated to be a four day event.

ID : SOWC-58

## 1.3.10 Business Management Reviews

ID : SOWC-5095

## 1.3.10.1 Cost and Software Data Reporting and Other Cost Reports Readiness Reviews

ID : SOWC-2765

## 1.3.10.1.1 Cost and Software Data Reporting Readiness Review

The Contractor shall hold a Cost and Software Data Reporting (CSDR) readiness review with Joint Project Office (JPO) JLTIV personnel within 14 days of the SOWM (reference SOWC 4015, SOWM) at the Contractor facility where CSDRs are prepared. The purpose of this meeting is to prepare for the Post Award CSDR Conference (reference SOWC 2766). Discussion shall include a review of the Contractor's standard CSDR process that satisfies the guidelines contained in the DoD 5000.04-M-1, CSDR Manual, and the requirements in the CSDR plan (reference Attachment 0004 SOWC 60, CSDR Plan) and related Resource Distribution Table (reference A022 CDRL SOWC 1371, RDT). The Contractor shall demonstrate how costs will be based, to the maximum extent possible, upon actual cost transactions and not cost allocations; describe how recurring vs. nonrecurring costs will be segregated; demonstrate how the data from its accounting system will be mapped into the reporting categories in the CSDR plan. The review should resolve any reporting issues, including determination of the final CWBS elements.

The Contractor shall present initial drafts of the CSDR CDRLs (A008 reference CDRL SOWC 2768, CWBS; A011 CDRL SOWC 2769, 1921; A015 CDRL-SOWC 2770, 1921-1; A021 CDRL-SOWC 2771, 1921-2; A009 CDRL-SOWC 2772, 1921-3; A025 CDRL-SOWC 2773, SRDR Initial; and A022 CDRL SOWC 1371, RDT) based on the value of the base contract award, negotiated modifications, and options. This meeting is expected to take two business days.

ID : SOWC-59

## 1.3.10.1.2 Contractor Manufacturing Cost Estimate Review

The Contractor shall host a meeting with JPO JLTIV personnel to walkthrough the Contractor's Multi-Year Procurement cost estimate, methodologies and source data, immediately following the completion of the CSDR Readiness Review (reference A018 CDRL SOWC 2777, Multi-Year Procurement Estimates). For planning purposes, this meeting is anticipated to be a half day event and will be held at the Contractor facility where the CSDRs are prepared.

**Name of Offeror or Contractor:**

ID : SOWC-5096

## 1.3.10.1.3 Other Cost Reports Readiness Review

The Contractor shall hold an Other Cost Reports Readiness Review with JPO JLTV personnel immediately following the Contractor Manufacturing Cost Estimate Review (reference SOWC 59). This meeting will review the purpose/intent and content of each of the Other Cost Reports and resolve any reporting issues (reference A023 CDRL SOWC-1367, Service & Consumption Report; A017 CDRL SOWC 5098, Inventory Receipt Report; A019 CDRL SOWC-2774, Parts Repair Report; A013 CDRL SOWC-1368, Current Inventory Report; A006 CDRL SOWC-1155, ASL; A026 CDRL SOWC-1599, SILP; A012 CDRL SOWC-1164, BOM; A020 CDRL SOWC-770, PBOM; SOWC-775, A016 Funds and Man-hour Exp Report; A014 SOWC-2776, Development Cost Report). The Contractor shall present a draft of the Contractor's proposed format for each of the Other Cost Reports during this meeting. For planning purposes, this meeting is anticipated to be a half day event and will be held at the Contractor facility where the CSDRs are prepared.

ID : SOWC-2766

## 1.3.10.2 Post Award CSDR Conference

The Contractor shall attend and participate in a post award CSDR conference which will be held with the Cost Working Group Integrated Product Team IAW DFARS 242.503-2(b). Prior to this conference, the Contractor shall make any adjustments or corrections identified during the CSDR Readiness Review (reference SOWC 2765). Discussion will include a review of the Contractor's CSDR process that satisfies the guidelines contained in the DoD 5000.04-M-1, CSDR Manual, and the requirements in the approved CSDR plan (reference Attachment 0004 SOWC 60, CSDR Plan) and related Resource Distribution Table (reference A022 CDRL SOWC 1371, RDT). The Contractor shall demonstrate how costs will be based, to the maximum extent possible, upon actual cost transactions and not cost allocations; describe how recurring vs. nonrecurring costs will be segregated; demonstrate how the data from its accounting system will be mapped into the reporting categories in the approved CSDR plan (reference Attachment 0004 SOWC 60, CSDR Plan). Within seven days of completing the CSDR Readiness Review, JPO JLTV personnel will inform the Contractor of the exact date and location of the Post Award CSDR conference. This meeting is expected to take one (1) business day and will likely be held in the Metropolitan District of Columbia (DC) area (to include the Quantico, VA).

ID : SOWC-2746

## 1.3.10.3 CSDR Mapping Reviews

The purpose of the CSDR Mapping Reviews is to ensure that contractor internal control accounts are mapped to the appropriate CSDR (reference SOWC 64) and CWBS element. For each initial CSDR report, the Contractor shall conduct a review with the Government of its proposed internal control account to CSDR WBS mapping at least 30 days before initial report submission. Each review shall include discussions of the Contractor's methodology for mapping costs from its accounting system into the CSDR WBS and review any necessary supporting documentation for the mapping of costs. Each review is expected to take one (1) business day and shall be held at the Contractor facility where CSDRs are prepared. In the event that new internal control accounts are created, the Contractor shall review their updated mappings with JPO personnel prior to follow-on CSDR submission via the phone or email.

ID : SOWC-2767

## 1.3.10.4 CSDR Pre-Submission Reviews

The Contractor shall hold a pre-submission review of each CSDR deliverable at least 30 days before schedule submissions IAW the CSDR Plan (Attachment 0004 SOWC 60, CSDR Plan). The intent of these reviews is to give JPO JLTV and Contractor personnel an opportunity to review a draft of each deliverable and determine if the format is appropriate, if the CSDR WBS mappings discussed during the CSDR Mapping Reviews (reference SOWC 2746) are still reasonable, and to clarify any outstanding issues prior to the actual deliverable submission. This meeting will be held at the Contractor facility where the CSDR is prepared and is expected to take one business day.

ID : SOWC-63

## 1.4 BUSINESS MANAGEMENT

ID : SOWC-64

The Contractor shall collect actual contract costs, prepare, and submit IAW the CDRLs listed below and the CSDR Plan (reference Attachment 0004 SOWC-60, CSDR Plan). This plan includes the following cost-related reports which shall be prepared IAW the applicable CDRL, DoDM 5000.04-M-1:

CDRL #	Title
A008	Contract Work Breakdown Structure (CWBS)
A011	Cost Data Summary Report (CDSR) (DD Form 1921)
A015	Functional Cost-Hour Report (DD Form 1921-1)
A021	Progress Curve Report (DD Form 1921-2)
A009	Contractor Business Data Report (DD Form 1921-3)
A010	Contractor Sustainment Report (DD Form 1921-4)
A024	Software Resources Data Report (SRDR)
A022	Resource Distribution Table (RDT)

The Contractor shall reconcile reporting elements in the CSDR with the IMS (reference A004 CDRL SOWC-2785, IMS), any applicable Funds

**Name of Offeror or Contractor:**

and Man-hour Expenditure Report (reference A016 CDRL SOWC-775, Funds and Man-hour Exp Report), any applicable Other Cost CDRLs (reference A023 CDRL SOWC-1367, Service & Consumption Report; A017 CDRL SOWC-5098, Inventory Receipt Report; A019 CDRL SOWC-2774, Parts Repair Report; A013 CDRL SOWC-1368, Current Inventory Report; A006 CDRL SOWC-1155, ASL; A026 CDRL SOWC-1156, SILP; A012 CDRL SOWC-1164, BOM; A020 CDRL SOWC-770, PBOM; A014 SOWC-2776, Development Cost Report) when these documents are submitted with the same "as of" date and the Product Baseline Index (reference B010 CDRL SOWC-212, PBLI) that is current on the "as of" date the report is submitted. CSDR reporting is required for and shall include reporting against any and all costs expended by the contractor or subcontractors during the execution of this contract. The requirement to report costs is independent of the amount of costs incurred, the contract type used to award funding, the source of funding, or how the Contractor executes the funds and scope associated with the contract. In the event that a DID, DA manual, or CDRL is vague or if there are multiple possible interpretations, the Government's interpretation shall be adopted. The Government may audit any CSDR deliverable for completion, correctness, and compliance to the associated DID, DA manual(s), and CDRL. If at any point errors or deficiencies are found in a deliverable, the Contractor shall, at their own expense, correct all deficiencies or errors and resubmit the deliverable.

ID : SOWC-65

## 1.4.1.1 CSDR Flow-Down Requirements

The Contractor shall flow-down CSDR requirements to all subcontracts in accordance with DFARS 252.234-7004(b). The Contractor shall flow-down SRDR requirements (reference A025 CDRL-SOWC 2773, SRDR) to all subcontracts whose scope includes software development efforts valued at more than \$20 million. This responsibility includes requiring Subcontractors to electronically report directly to the Defense Cost and Resource Center (DCARC). The Contractor shall ensure that Subcontractors meeting CSDR reporting thresholds collect data in sufficient detail to meet the CSDR Plan (reference Attachment 0004 SOWC 60, CSDR Plan). For Subcontractors not meeting CSDR reporting thresholds, the Contractor shall collect and provide Subcontractor data in adequate detail to comply with the Resource Distribution Table requirements (reference A022 CDRL SOWC 1371, RDT) and the CSDR Plan (reference Attachment 0004 SOWC 60, CSDR Plan).

ID : SOWC-2768

## 1.4.1.2 Contract Work Breakdown Structure Index and Dictionary

The Contractor shall produce, deliver, and maintain a product oriented Work Breakdown Structure (WBS) Index and Dictionary in accordance with the CSDR Plan (reference Attachment 0004 SOWC 60, CSDR Plan). WBS Indices and Dictionaries shall be completed to at least the lowest levels specified in MIL-HDBK-881A (30 Jul 2005) unless otherwise specified by the CSDR Plan (reference Attachment 0004 SOWC 60, CSDR Plan). The Contractor shall tailor the Contractors WBS below the levels specified in MIL-HDBK-881A (30 Jul 2005) for WBS elements that are categorized as high-risk, high-value, or high-technical interest by the Cost Working Group Integrated Product Team (CWIPT). The Contractor may further extend the WBS for its own reporting or management purposes. The CWBS Dictionary shall reflect the design as documented in the System Level Design Document (reference SOWC 4146, SLDD) and Product Baseline Index (reference SOWC 212, PBLI). Any changes to an approved CWBS require Government approval. (A008 CDRL SOWC 2768, CWBS)

ID : SOWC-2769

## 1.4.1.3 Cost Data Summary Report

The Contractor shall prepare and submit the Cost Data Summary Report (DD Form 1921) which reports direct and indirect actual cost data on both a recurring and non-recurring basis by CWBS level as specified in the CSDR plan (reference Attachment 0004 SOWC 64, CSDR Plan). (A011 CDRL SOWC 2769, 1921)

ID : SOWC-2770

## 1.4.1.4 Functional Cost-Hour Report

The Contractor shall prepare and submit a Functional Cost-Hour Report (DD Form 1921-1) which reports information on resources including labor hours, overhead costs, material costs, and other direct and indirect cost data on both a recurring and non-recurring basis by CWBS level as specified in the approved CSDR plan (reference Attachment 0004 SOWC 64, CSDR Plan). (A015 CDRL SOWC 2770, 1921-1)

ID : SOWC-2771

## 1.4.1.5 Progress Curve Report

The Contractor shall prepare and submit the Progress Curve Report (DD Form 1921-2) which reports production cost and hours data specified in the approved CSDR plan (reference Attachment 0004 SOWC 64, CSDR Plan). (A021 CDRL SOWC 2771, 1921-2)

ID : SOWC-2772

## 1.4.1.6 Contractor Business Data Report

The Contractor shall prepare and submit the Contractor Business Data Report (DD Form 1921-3) which provides the means to facilitate estimating and analysis of indirect contract costs as specified in the approved CSDR plan (reference Attachment 0004 SOWC 64, CSDR Plan). (A009 CDRL SOWC 2772, 1921-3)

ID : SOWC-5097

## 1.4.1.7 Contractor Sustainment Report

The Contractor shall prepare and submit the Contractor Sustainment Report (DD Form 1921-4) which reports a breakdown of costs to sustain vehicles and related equipment covered on this contract and includes labor hours, overhead costs, material costs, and other direct and indirect cost data on both a recurring and non-recurring basis by CWBS level specified in the approved CSDR plan (reference Attachment 0004 SOWC 64, CSDR Plan). (A010 CDRL SOWC 5097, 1921-4)

ID : SOWC-2773

**Name of Offeror or Contractor:**

## 1.4.1.8 Software Resources Data Report

The Contractor shall prepare and submit the Software Resource Data Report (SRDR) which provides expectations and actual results of software development or upgrade efforts as specified in the approved CSDR plan (reference Attachment 0004 SOW 64, Approved CSDR Plan). (A025 CDRL SOW 2773, SRDR)

ID : SOWC-1371

## 1.4.1.9 Resource Distribution Table

The Contractor shall prepare and submit a Resource Distribution Table (RDT) which identifies the value of work assigned to the Contractor and any subsidiaries and Subcontractors. The RDT shall be based on the WBS used in the CSDR Plan (reference Attachment 0004 SOWC 64, CSDR Plan). The Contractor shall include an RDT with all proposals when responding to solicitations in support of this contract issued for any new work not covered by the CSDR Plan. (A022 CDRL SOWC 1371, RDT)

ID : SOWC-769

## 1.4.2 Other Cost Reports

The Contractor shall collect actual costs, performance, and any other required data in sufficient detail to prepare and submit the following reports IAW the associated CDRL.

## CDLR # Title

A020 Production Indentured Bill of Materials  
A012 Current and Prior Configuration Indentured Bill of Materials  
A007 Bill of Materials Change Report  
A006 Authorized Stockage List (ASL) Procurement  
A026 Systems Integration Lab (SIL) Procurement  
A023 Service & Consumption Report  
A017 Inventory Receipt Report  
A019 Parts Repair Report  
A013 Current Inventory Report  
A016 Funds and Man-hour Expenditure Report  
A014 Development Cost Report  
A018 Multi-Year Procurement Estimates  
A027 Weight & Dimensions Matrix

These reports will provide the Government with actual data on the types and costs of parts procured, repaired, stocked, and consumed along with other relevant data produced during the execution of this contract. The Contractor shall reconcile reporting elements in any applicable Funds and Man-hour Expenditure Report (reference A016 CDRL SOWC 775, Funds and Man-hour Exp Report), any applicable CSDRs (A008 reference CDRL SOWC 2768, CWBS; A011 CDRL SOWC 2769, 1921; A015 CDRL-SOWC 2770, 1921-1; A021 CDRL-SOWC 2771, 1921-2; A009 CDRL-SOWC 2772, 1921-3; A010 CDRL-SOWC 5097, 1921-4; A025 CDRL-SOWC 2773, SRDR; A022 CDRL SOWC 1371, RDT) when these documents are submitted with the same as of date and the Product Baseline Index (reference B010 CDRL SOWC 212, PBLI) that is current on the as of date the report is submitted. If at any point errors or deficiencies are found in a deliverable, the Contractor shall, at their own expense, correct all deficiencies or errors and resubmit the deliverable.

ID : SOWC-770

## 1.4.2.1 Production Indentured Bill of Materials

The Contractor shall prepare a Bill of Materials (BOM) for each production lot of JLTIV FoV in an indentured level consistent with how parts used in the production of JLTIV FoV were procured and incorporated into the final production end item. The Contractor shall reconcile this report with any production 1921 (reference A011 CDRL SOWC 2769, 1921), 1921-1 (reference A015 CDRL-SOWC 2770, 1921-1), and 1921-2 (reference A021 CDRL-SOWC 2771, 1921-2) covering the same production period. The indentured BOM information shall correspond to the PBI structure (reference SOWC 212, PBLI). (A020 CDRL SOWC 770, Production Indentured Bill Of Materials)

ID : SOWC-1164

## 1.4.2.2 Current and Prior Configuration Indentured Bill of Materials

The Contractor shall prepare and maintain an indentured Bill of Materials (BOM) for the JLTIV FoV, Engineering Change Orders (ECO), Engineering Change Proposals (ECP), and any other modifications. The indentured BOM shall be prepared in indenture level sequence and will report the current configuration (e.g. latest part numbers, includes ECOs and ECPs) and any prior BOM configurations (e.g. obsolete part numbers, pre ECOs and ECPs cut-ins) of the JLTIV FoV. The indentured BOM information shall correspond to the PBI structure (reference SOWC 212, PBLI). (A012 CDRL SOWC 1164, Current and Prior Configuration Indentured Bill of Materials)

ID : SOWC-771

## 1.4.2.3 Bill of Materials Change Report

The Contractor shall prepare and maintain a Bill of Materials (BOM) Change Report. The BOM Change Report shall reflect the parts that changed (both prior and current), date of change, and cut in date on the vehicles, as a result of the ECP, ECO, STS, obsolesces, and any other modifications affecting the BOM since the last Current and Prior Configuration Indentured Bill of Materials (reference A012 CDRL SOWC 1164, BOM) was delivered to the Government. The Contractor shall explain any discrepancies in the data. (A007 CDRL SOWC 771, Bill Of Materials Change Report)

**Name of Offeror or Contractor:**

ID : SOWC-1155

## 1.4.2.4 Authorized Stockage List Procurement

The Contractor shall provide a list of all items procured along with the actual price incurred in order to produce an Authorized Stockage List (ASL). (A006 CDRL SOWC 1155, ASL)

ID : SOWC-5099

## 1.4.2.5 Systems Integration Lab (SIL) Procurement

The Contractor shall provide a list of all items procured along with the actual price incurred in order to produce a SIL. (A026 CDRL SOWC 1156, SILP)

ID : SOWC-1367

## 1.4.2.6 Service &amp; Consumption Report

The Contractor shall prepare and maintain a list of all scheduled and unscheduled services performed, software upgrades applied, and parts or fluids replaced and consumed during the execution of any scope of work against this contract. (A023 CDRL SOWC 1367, Service & Consumption Report)

ID : SOWC-5098

## 1.4.2.7 Inventory Receipt Report

The Contractor shall track and prepare a list of all parts, fluids, leased items, and other tangible assets procured and accepted into inventory during the execution of any scope against this contract. (A017 CDRL SOWC 5098, Inventory Receipt Report)

ID : SOWC-2774

## 1.4.2.8 Parts Repair Report

The Contractor shall prepare and maintain a list of all parts repaired or disposed of during the execution of any SOW against this contract. (A019 CDRL SOWC-2774, Parts Repair Report)

ID : SOWC-1368

## 1.4.2.9 Current Inventory Report

The Contractor shall prepare and maintain a current inventory of all parts, fluids, leased items, and other tangible assets held in inventory to support any scope against this contract. (A013 CDRL SOWC 1368, Current Inventory Report)

ID : SOWC-775

## 1.4.2.10 Funds and Man-hour Expenditure Report

The Contractor shall submit the Funds and Man-hour Expenditure Report IAW the Funds and Man-hour Expenditure Template (reference Attachment 0005 SOWC 775, Funds and Man-hour Exp Report Template). The Contractor shall reconcile reporting elements in the Funds and Man-hour Expenditure Report with the IMS and the CSDR when these documents are submitted with the same as of date. (A016 CDRL SOWC 775, Funds and Man-hour Exp Report)

ID : SOWC-2776

## 1.4.2.11 Development Cost Report

The Contractor shall track and report costs and hours associated with the development, procurement, and retrofit of any ECOs, ECPs, STS, and other modifications to the JLTV FoV configurations. (A014 CDRL SOWC 2776, Development Cost Report)

ID : SOWC-2777

## 1.4.2.12 Multi-Year Procurement Estimates

The Contractor shall prepare a Multi-Year Production Procurement estimate and provide it to the Government during the SOWM (reference SOWC 4015, SOWM). (A018 CDRL SOWC 2777, Multi-Year Procurement Estimates)

ID : SOWC-2775

## 1.4.2.13 Weight &amp; Dimensions Matrix

The Contractor shall prepare, maintain, and deliver a report of the weights and dimensions for the JLTV FoV IAW the Weight and Dimensions Matrix template (Attachment 0006 SOWC 2775, Weight & Dimensions Matrix). (A027 CDRL SOWC 2775, Weight Matrix)

## 1.4.2.14 Contract Funds Status Report

The Contractor shall submit a Contract Funds Status Report (CFSR) which shall provide the Government with data on funding requirements, estimates at completion, a determination of excess funds, and rough estimates of termination costs. (A005 CDRL SOWC-5286, CFSR)

ID : SOWC-2778

## 1.4.3 Earned Value Management System (EVMS)

In the performance of an individual or combination of related STS Work Directive(s) approved by the Government valued at \$20 million or

**Name of Offeror or Contractor:**

greater, the Contractor shall use an EVMS that complies with DFARS 252.234-7001 and 252.234-7004 and shall meet the Contractor's own documented System Description. It should also satisfy Industry Guidelines delineated in the ANSI/EIA-748.

ID : SOWC-2779

**1.4.3.1 Performance Measurement Baseline (PMB)**

The Contractor shall generate a time-phased budget baseline assigning all contract costs to their scope specific Work Breakdown Structure (WBS) elements no later than 45 days after the exercised option. The PMB shall be the basis for the Integrated Program Management Report (reference A003 CDRL SOWC 2784, IPMR Formats). Retroactive changes to the PMB are prohibited, except for the correction of errors and routine accounting adjustments.

ID : SOWC-2780

**1.4.3.1.1 Formal Reprogramming**

When indicated by contract performance, the Contractor shall submit a request for approval to initiate an over-target baseline (OTB) or over-target schedule (OTS) to the Procuring Contracting Officer (PCO). The content of the Contractors reprogramming request shall be consistent with DFARS 252.234-7002(h). The Contractor's formal reprogramming request shall be submitted no later than 60 days prior to the Contractors anticipated implementation date. The PCO will issue a letter no later than 30 days after receipt of the request stating whether it has been approved or denied. The Contractor shall not implement the OTB/OTS prior to receiving written approval from the PCO.

ID : SOWC-2781

**1.4.3.1.2 Replanning and Single Point Adjustments (SPA)**

The Contractor shall submit a request for approval to the PCO to initiate any action that modifies the timing of milestones in the Contractors Integrated Master Schedule (as reported in IPMR Format 6) or eliminates accrued cost and/or schedule variances. Replanning actions and SPAs shall not be used as a means to improve cost and/or schedule performance. Replanning and SPA requests shall be submitted to the PCO no later than 60 days prior to the Contractors anticipated implementation date. The PCO will issue a letter no later than 30 days after receipt of the request stating whether it has been approved or denied.

ID : SOWC-2782

**1.4.3.2 Integrated Baseline Reviews (IBRs)**

The Contractor shall review its Performance Measurement Baseline (PMB) plan with the Government at the Contractor's facility within 180 days of contract award and subsequently following major changes to the baseline when required. During the IBR as well as during required follow-on IBRs, the Government will verify that the Contractor has established and is maintaining a reliable PMB. The Contractor shall ensure that the baseline includes the entire contract technical SOW consistent with contract schedule requirements and has adequate resources assigned. The Contractor shall assure the Government that effective EVM methods are used to accurately status contract cost, schedule, and technical performance. The IBR will be used to achieve mutual understanding of the baseline plan, cost and schedule risk, and the underlying management processes used for planning and controlling the project. The Contractor shall provide access to all pertinent records and data requested by the PCO or duly authorized representative to adequately prepare for the IBR. The Contractor shall provide the Government with a PMB detail-planned to MIL-HDBK-881A WBS Level III and IBR topics as a read-ahead focusing on its assigned WBS elements (reference A001 CDRL SOWC 34, Agenda - Read Ahead Package). The Contractor flows-down the IBR requirement to those Subcontractors that meet the applicable thresholds for EVM reporting. The Contractor shall lead the IBR with its Subcontractors (reference SOWC 2786), with active participation from the Government.

ID : SOWC-2784

**1.4.3.3 Integrated Program Management Report (IPMR)**

The Contractor shall prepare and electronically deliver all IPMR Formats. Reporting below level three of the CWBS (reference A008 CDRL SOWC 2768) shall be required for high-cost, high risk and high variance items and may be required until the problem is resolved. The Government and the Contractor shall periodically review and adjust reporting levels and variance thresholds IAW A003 CDRL SOWC 2784 Integrated Program Management Report, to ensure the Contractor continues to provide appropriate visibility without requiring excessive information. If the Government determines there is a significant problem with respect to cost, schedule, or performance at a lower level, detailed reporting for that WBS element shall be required until the problem is resolved. (A003 CDRL SOWC 2784, IPMR)

ID : SOWC-2786

**1.4.3.4 Application to Subcontractors**

The Contractor shall flow down DFARS Clauses 252.234-7001 and 252.234-7002. The performance information reported by the Subcontractors shall be incorporated and integrated into the Contractor's management system. The Contractor is responsible for reviewing and assuring the validity of all Subcontractors reporting through surveillance and other means.

ID : SOWC-566

**1.5 PROGRAM PROTECTION**

The Contractor shall comply with the security requirements imparted by the DD Form 254 (Attachment 0003), the National Industrial Security Program Operating Manual (NISPOM) DoD,5220.22-M), and Army Regulation (AR) 70-77.

ID : SOWC-570

**1.5.1 Program Protection Working Group (PPWG)/Critical Program Information Assessment (CPIA)**

The Contractor shall host a Program Protection Working Group (PPWG) as part of the SOWM, and a second PPWG within 12 months after award. Each PPWG will be chaired by the Government Systems Engineer and co-chaired by the Contractor's System Security Engineer. The co-chair

**Name of Offeror or Contractor:**

shall develop the agenda and action items (reference A001 CDRL SOWC 34, Read Ahead Agenda and A002 CDRL SOWC 36, Minutes). The agenda will include a CPIA that will identify Critical Program Information or Critical Technology (defined by DoDI 5200.39, July 16, 2008 Incl Change 1 Dec 28, 2010, Critical Program Information (CPI) Protection within the Department of Defense). Each PPWG will be a one day event. After the second PPWG event, the Government will provide a PCO letter validating the CPI/CT for the program.

ID : SOWC-1004

**1.5.1.1 Anti-Tampering Plan**

If Anti-Tamper is identified as a countermeasure for hardware or software updates containing CT during the LRIP, the Contractor shall design, develop and integrate an AT protection solution to deter, prevent and detect the reverse engineering of those systems using the probability of an unplanned loss or for international sales across the program's life cycle in an update to the Anti Tamper Plan as an annex to the JLTV program Protection Plan. The Contractor shall develop and implement an AT Program to protect CT. The Contractor shall develop, utilize, and maintain an Anti-Tamper Plan Annex to address protection of CT from reverse engineering in the case of unplanned loss or international sale. The Contractor shall develop an Anti-Tamper Plan Annex to the Program Protection Plan for documenting a countermeasure designs. The Contractor shall consider AT in system engineering activities across the program's life cycle to include science and technology efforts, research, design, development, implementation, testing, maintenance, upgrade and disposal of the system. (B054 CDRL SOWC 1004 Anti-Tampering Plan).

ID : SOWC-1006

**1.5.2 Supply chain Risk Management**

The Contractor shall identify the mission-critical functions that may result in Level I or Level II protection failures (defined by DoDI 5200.39, July 16, 2008 Incl Change 1 Dec 28, 2010, Critical Program Information (CPI) Protection within the Department of Defense) due to operational, system information, or component integrity aspects. The Contractor shall ensure that updated criticality analysis assumptions, rationale, results, and supply chain risk information and mitigation's are made available for Government review for each Program Management Review (PMR).

ID : SOWC-1009

**1.5.2.1 Logic-Bearing Systems**

The Contractor shall identify the associated logic-bearing system components that implement, or introduce vulnerability to these functions (hereafter referred to collectively as the critical components) for each Level I and Level II mission-critical function identified by the Contractor in the criticality analysis.

ID : SOWC-573

**1.5.2.2 Critical Functional Analysis (CFA)**

The Contractor shall conduct a CFA for the purpose of identifying Critical Components (CCs) that can lead to Level I and Level II mission critical failures. The CFA shall assess CC for the following war fighting functions: movement and maneuver, intelligence, fires, protection, sustainment, command and control, casualty evacuation, and treatment. The CFA shall identify all logic bearing critical components as well as the hardware and software suppliers for the logic bearing components. The Contractor shall host a one day review with the JPO JLTV Program Protection team to discuss and review the results of the CFA. The CCs shall be prioritized, assessed for supply chain risk (as defined in DoDI 5200.44), and based on risk the Contractor shall develop mitigations or countermeasures to minimize the risk posed from supply chain. The Contractor shall develop meeting minutes and action items (A002 Minutes) for the CFA review. The CFA, supply chain risk, and mitigation or countermeasures for risks shall be included in the meeting minutes. The CFA shall assess both Organic CC as well as the integration of Inherited CC.

The Contractor shall develop and deliver a mission criticality analysis(es), vulnerability assessment(s), risk evaluation(s), and identification and counter measurement implementation(s) for Mission-Critical Functions, the failure of which would result in either total compromise of mission capability (catastrophic) (Level I) or unacceptable compromise of mission capability or significant mission degradation (critical) (Level II). (B053 CDRL SOWC 573, Critical Analysis) (Attachment 0028 SOWC 573, Supplier RFI Form)

ID : SOWC-5256

**1.5.2.3 Countermeasures**

The Contractor shall plan for and implement countermeasures that mitigate the risk of foreign intelligence or foreign influence, technology exploitation, threats to supply chain, and battlefield threats and vulnerabilities that result in Level I and Level II protection failures of the system.

ID : SOWC-567

**1.5.2.4 Consent to Subcontracts**

The Contractor shall comply with the requirements of FAR Subpart 44.2, Consent to Subcontracts. The Contractor shall receive Government approval prior to Subcontracting for those systems or subsystems identified by the PPWG as CCs that have logic bearing components. If the Contractor issues a contract to Subcontract for an item that, at the time of issuance of the contract, has not been identified as a CC by the PPWG but later the item is identified as CC, the Contractor shall notify the Government and adhere to following guidance. The Contractor shall deliver, IAW the Supplier RFI form (Attachment 0028 SOWC 573, Supplier RFI Form), a definitive list of all known or proposed Subcontractors and suppliers of critical components with logic bearing components (i.e., software, firmware, network cards, and printed circuit boards) at Program Protection Working Group (PPWG). The list will be reviewed and approved by the Government's Systems Engineer and the Government Security Manager in coordination with Defense Intelligence Agency (DIA). DIA will assess the foreign

**Name of Offeror or Contractor:**

intelligence and technology exploitation threat for the supply chain associated with the CC. A threat assessment can take 3-6 months. The results of the threat assessment must be used to inform the Subcontractor's risk mitigation strategy for all CC's. Mitigation could include disapproval to use a prospective Subcontractor or supplier IAW Sec 806 of NDAA FY 2011 (authority extension in Sec 806 of NDAA FY 2013). The Contractor shall take steps to ensure that commercial products purchased or obtained shall not be identified as being destined for inclusion in a Government system. (B052 CDRL SOWC 567, Critical component Subcontractor and Supplier list)

ID : SOWC-299

1.6 GOVERNMENT FURNISHED EQUIPMENT (GFE)/ INTEGRATION AND GOVERNMENT FURNISHED INFORMATION (GFI)

ID : SOWC-301

1.6.1 GFE/GFI Delivery

The Government will provide the GFE/GFI IAW the schedule outlined in the GFE/GFI List (Attachment 0027 SOWC 301, GFE/GFI List). At the SOWM, the Government will provide the technical integration data or required Points of Contact (POCs) to receive proprietary information and data related to the GFE/GFI.

ID : SOWC-302

1.6.2 External Agreements

The Contractor shall establish Nondisclosure Agreements (NDAs) and Memorandum of Agreements (MOAs) with non-JPO JLTV organizations, both Government and Commercial, as required to receive data and integrate GFE/GFI. At the SOWM the Government will provide the list of organizations with which NDAs and MOAs may need to be arranged. These agreements will allow the Contractor to receive controlled technical integration data and facilitate direct technical collaboration in order to integrate GFE/GFI into the JLTV FoV as identified in the JLTV Purchase Description (Attachment 0001). Progress of NDAs and MOAs shall be discussed at the PMRs.

ID : SOWC-6

2 PRODUCTION

ID : SOWC-81

2.1 SYSTEMS ENGINEERING

ID : SOWC-3140

2.1.1 Baseline Configuration Control

ID : SOWC-89

2.1.1.1 Functional Baseline - Purchase Description Report

The Contractor shall provide a report to the Government to include the Cost, Schedule, Performance information required to achieve the Request for Proposal (RFP) Purchase Description (PD) requirements that are not within the JLTV Purchase Description (Attachment 0001). (B042 CDRL SOWC 89, PD Report)

ID : SOWC-4648

2.1.1.2 Functional Baseline - System Engineering Management Plan

The Contractor shall develop and deliver a System Engineering Management Plan (SEMP). The Contractor shall adhere to all systems engineering activities contained within the SEM. (B038 CDRL SOWC 4648, SEM)

ID : SOWC-4146

2.1.1.3 Allocated Baseline - System Level Design Document

The Contractor shall deliver a System Level Design Document (SLDD) that encompasses the JLTV FoV top-level designs and subsystem designs that correspond to the Contract Work Breakdown Structure (CWBS) (reference A008 CDRL SOWC 2768, CWBS) and the As-Built Configuration List (ABCL) (Attachment 0031 SOW 1477, ABCL). (B034 CDRL SOWC 4146, SLDD)

ID : SOWC-212

2.1.1.4 Product Baseline Index

The Contractor shall establish, manage, maintain and submit a Product Baseline Index (PBLI). The baseline PBLI will be discussed and established at the PBR. After receipt of the PBLI, the Government will advise the Contractor which items it intends to audit during the PCA. (B010 CDRL SOWC 212, PBLI)

ID : SOWC-211

2.1.1.5 Configuration Management

The Contractor shall execute Configuration Management (CM) throughout the period of performance of this contract (reference SOWC 213). The Government shall be the approver of all changes to the baselines (reference SOWC 2927, B023 CDRL SOWC 1217 ECP, and B025 CDRL SOWC 1220 RFD). Government approval of a change does not constitute relief from vehicle performance requirements. The Contractor shall execute a complete CM program to manage all hardware and software configurations including documentation, electronic media, and parts representing or comprising the JLTV FoV. The Contractor shall apply CM functions, including processes, responsibilities, resources, and metrics, throughout the product lifecycle, and flow down these CM requirements to Subcontractors to provide appropriate application of CM function to entire supply chain. The Contractor may use Government Electronics and Information Technology Association (GEIA) EIA-649-A, National Consensus Standard for Configuration Management; GEIA-859, Data Management (DM); and DoD MIL-HDBK-61, Configuration

**Name of Offeror or Contractor:**

Management Guidance.

ID : SOWC-2927

2.1.1.5.1 Configuration Baseline

The Contractor shall be responsible for maintaining configuration control of the JLTV FoV. The PBLI will be put under formal CM after the PBR and the associated TDP will be put under formal CM after the initial PCA. Any subsequent changes to the configuration baselines shall be processed by formal Engineering Change Proposal (ECP).

ID : SOWC-1214

2.1.1.5.2 Configuration Control Board

The Contractor shall perform all the work to execute the Configuration Control Board (CCB) to review the proposed changes to the configuration baselines. The Government will be the Configuration Control Authority (CCB Chair) at the completion of the PBR. The CCB will meet monthly or more often based on the number of outstanding Engineering Change Proposals (ECPs) and priority of the ECPs. Meeting minutes shall be generated with Action Item assignments and decisions documented as part of meeting minutes. (Reference A002 CDRL SOWC 36, Minutes)

ID : SOWC-213

2.1.1.5.3 Configuration Management Plan

The Contractor shall provide a Configuration Management Plan (CMP). Once the plan is approved by the Government, the Contractor shall adhere to all process and activities contained within the approved CMP. (B011 CDRL SOWC 213, CMP)

ID : SOWC-1212

2.1.1.5.4 Configuration Management Web-based System

The Contractor shall establish a CM web-based system to maintain access to the As-Built Configuration List (ABCL) (reference Attachment 0031 SOWC 1477, ABCL), current Product Baseline Index (PBLI) (reference B010 CDRL SOWC 212, PBLI) and associated TDP (reference SOWC 4147, TDP Package) with metadata, Configuration Status Accounting Information (CSAI) (reference B022 CDRL SOWC 1213, CSAI), and Effectivity Certification. The current TDP data shall be accessible to the Government via a light weight model viewer (such as ProductView).

This web-based system shall provide a CM workflow to manage the approval and implementation of all ECPs, Request for Deviations (RFDs), and Value ECPs (VECPs).

The Contractor shall provide the Government with at least read-only online access of the TDP and contribute access to the CM workflow process in the Contractor's CM web-based system. The contribute roles include approve, reject, and comments of the CM process. The Government shall be able to access the web-based system via web browser on any network. The Government's access shall allow for viewing and querying of data records and documents. The Contractor's CM web-based system shall be established NLT the Product Baseline Review.

ID : SOWC-1213

2.1.1.5.5 Configuration Status Accounting Information

The Contractor shall record, maintain and submit the Configuration Status Accounting Information (CSAI) for the term of this contract. The CSAI shall include status of changes, status of resulting action items, effectivity, and incorporation status of approved changes (reference B023 CDRL SOWC 1217 ECP, and B025 CDRL SOWC 1220 RFD), and completion status of the TDP.

After the PBR is complete, approved changes shall not reflect a status of complete or closed until the new or revised documentation incorporating the approved change has been delivered to the Government. The Contractor shall also correct all deficiencies or errors discovered in CSAI prior to the next submittal. (B022 CDRL SOWC 1213, CSAI)

ID : SOWC-2928

2.1.1.5.5.1 Effectivity Certification

The Contractor shall maintain the information and date when each approved ECP and RFDs was implemented into the manufacturing line. This information shall be maintained in the CSAI Reports (reference B022 CDRL SOWC 1213, CSAI)

ID : SOWC-2926

2.1.1.5.6 Physical Configuration Audit (PCA) Plan

The Contractor shall submit a detailed PCA Plan prior to the initial and final PCA. Hardware presented at the PCA shall be built to the current baseline at the time of the PCA. (B030 CDRL SOWC 2926, PCA Plan)

ID : SOWC-1210

2.1.1.5.6.1 Configuration Audit Summary Report

The Contractor shall submit a Configuration Audit Summary Report documenting all the PBLI deficiencies and corrective actions at time of the PCA. The Contractor shall identify action items and address each issue to include resulting close-out action. (B021 CDRL SOWC 1210, Configuration Audit Summary Report)

ID : SOWC-1217

**Name of Offeror or Contractor:**

## 2.1.1.5.7 Engineering Change Proposal

After the completion of the PBR, the Contractor shall prepare ECPs and VECPs IAW (Attachment 0020 SOWC 1217, ECP). Impact statements and supporting data sufficient to evaluate the change shall accompany each request to include engineering, safety, quality, cost, schedule, MANPRINT, packaging, provisioning, maintenance, TM, and training data.

All changes proposed by the Contractor shall be at the Contractors cost. All changes generated by the Government will be funded by the Government. Government approval of the ECP does not constitute relief from vehicle performance requirements. (B023 CDRL SOWC 1217, ECP)

ID : SOWC-1219

## 2.1.1.5.7.1 Value Engineering Change Proposal

When the Contractor is interested in proposing a Value Engineering Change Proposal (VECP), that will effect permanent changes to the production hardware and where cost savings are applicable, the Contractor shall submit a VECP request to the TACOM Value Engineering Office. The Contractor shall include in each VECP the information described in subparagraphs one through eight in FAR 52.248-1(c). The VECP Request may be in letter form and shall define the change identification number, title, subject, estimated proposed savings and effectivity of the proposed VECP. A copy of the letter shall be provided to the PCO and JPO JLTV. The letter must be submitted prior to submission of the VECP to the JPO JLTV CCB. The VECP shall be prepared and executed in the same manner as ECPs. For VECPS affecting interface control, the Contractor shall obtain concurrence from all interface parties and include such concurrences as part of the VECP package.

In accordance with 52.248-1, the Contracting Officer will consider cost reductions proposed by the Contractor and will consider increasing the Contractors sharing rate up to 75% on a case by case basis. (B024 CDRL SOW 1219, Value Engineering Change Proposal).

ID : SOWC-1220

## 2.1.1.5.8 Request for Deviation

Contractor may request to temporarily deviate from the Product Baseline or the JLTV Purchase Description (Attachment 0001) by submitting an RFD IAW (Attachment 0021 SOW 1220, Request For Deviation). The Government is the approval authority for all RFDs. All retrofits are at the Contractor cost. (B025 CDRL SOWC 1220, RFD)

ID : SOWC-3144

## 2.1.1.6 Technical Data Package Information Requirements

Regardless if the Government elects to exercise the option to purchase additional technical data rights in the technical data package for the JLTV FoV, the requirements found within this section apply. The Contractor shall develop and maintain a complete production level TDP of the vehicles being delivered to the Government. The TDP shall be the basis of managing the configuration of the JLTV FoV. The TDP is a deliverable, regardless of the level of rights that the government will receive in that TDP (i.e., with or without the exercise of the option.)

ID : SOWC-4147

## 2.1.1.6.1 Technical Data Package

The Production Level TDP represents the complete Product Baseline as managed through the PBLI. The TDP shall be maintained as the complete Product Baseline regardless of transfer of any additional technical data rights to the Government if the option is exercised. Unless otherwise specified herein, the TDP shall conform to the requirements of the latest revision of MIL-STD-31000 and Attachment 0023 TDP1, TDP Option Selection Worksheet Figures 2 and 3. The Contractor shall use Attachment 0024 TDP2 as a guide for detailed TDP requirements. The Contractor shall discuss all proposed deviations from the requirements of Attachment 0024 TDP2 at the PBR.

ID : SOWC-5268

## 2.1.1.6.1.1 Software

For all commercial and non-commercial software, the TDP shall include the computer software documentation IAW the latest revision of MIL-STD-31000. Software documentation shall adhere to DIDs specified in ISO/IEC 12207. For non-commercial software, the TDP shall additionally include computer software, including source code. Computer software is defined IAW the latest revision of MIL-STD-31000 definitions.

ID : SOWC-5269

## 2.1.1.6.1.2 Paint Colors within the TDP

The Contractor shall develop the TDP in such a manner as to allow flexibility in specifying the paint. The Contractor shall not assign unique part numbers for components based solely on specified paint color. The Contractor shall include a paint/finish drawing at a high level in the TDP in order to allow the Government to order different exterior colored vehicle lots without impacting component drawings and part numbers.

ID : SOWC-4148

## 2.1.1.6.2 Government Data Rights

**Name of Offeror or Contractor:**

All data rights shall be IAW the provisions of DFARS 252.227-7013, 252.227-7014, and 252.227-7015 and terms documented in the contract. ASME Y14.24 Appendix A shall be used for determining the proper model/drawing types for all components. All Interface Drawings shall be marked and maintained with unlimited rights.

ID : SOWC-4149

**2.1.1.6.3 Utilization of the TDP**

The Contractor shall use the PBLI approved with associated TDP for all activities related to the manufacture and assembly of the JLTV FoV. The Contractor shall not maintain or utilize a separate TDP for the purposes of production unless specific written approval has been given by JPO JLTV through the PCO. All changes to the vehicle design shall be incorporated into the TDP by the Contractor through the Engineering Change Proposal Process (paragraph C.XXXX).

ID : SOWC-4150

**2.1.1.6.4 Technical Data Package/3D Solid Models/2D Drawings**

The 3-D model, including metadata, is the master design record. All subsequent data rendering, drawings, and depiction's are derived from this the 3-D record. The models and all rendering shall be marked IAW DFARS 252.227-7013, DFARS 252.227-7014 and DFARS 252.227-7015.

ID : SOWC-4151

**2.1.1.6.5 Solid Models**

The TDP shall be developed utilizing a 3-D Parametric Solid Modeling tool. The Contractor shall provide solid model/CAD files in native PTC Creo Parametric data format including full model metadata. The models shall be organized in a product structure that aligns with the WBS, CWBS, and the allocated baseline described in the SLDD.

ID : SOWC-4152

**2.1.1.6.6 Engineering Drawings, Product Drawings, and Records**

The Contractor shall maintain Product Design Drawings electronic files and formatted IAW MIL-STD-31000, DI-SESS-81000E, ASME Y14.100M, ASME Y14.34M, ASME Y14.35M, and ASME Y14.24M. This shall include the Geometric Dimensioning and Tolerancing (GD&T). Detailed subassembly and assembly drawings shall be completely delineated, directly or by reference to other documents, engineering requirements and characteristics such as materials, tolerance methods shall be utilized where applicable per ASME 14.5M-2009. Engineering drawings and associated lists shall at a minimum provide the necessary design, engineering, manufacturing, and quality assurance information sufficient to procure or manufacture an item that duplicates the physical and performance characteristics of the original prototype, without additional design engineering effort or recourse to the original design activity. Quality Assurance Provisions shall be included on the drawings per Section E of this contract. The QAPs shall note the type and frequency of process/product controls or required test for performance/validation/production control purposes.

ID : SOWC-4154

**2.1.1.6.7 Dressed Components**

The TDP shall include dressed component drawings for the engine, transmission, axles, transfer case, cooling pack, and cab if applicable. A dressed component is a properly manufactured, assembled and tested set of parts, subsystems and assemblies that are complete for installation in the vehicle delivered under this contract. Dressed component drawings shall identify all sprockets, pulleys, mounts and other add-ons that adapt the component to the vehicle installation. The dressed component drawings shall be complete in assembly and detail to allow procurement of the dressed component.

ID : SOWC-4155

**2.1.1.6.8 Part Numbers**

All product drawings including Packaging Content and Kit drawings produced under this contract shall be assigned Government issued part numbers. These part numbers can be obtained by submitting a written request to JPO JLTV specifying the type and quantity of drawings being produced, i.e., and kit or product drawings. The allocation of these numbers shall be reported on a frequency specified on the DD Form 1423.

The Contractor shall prepare a part number assignment report IAW DI-SESS-81011E and include the Contractor's name, address and contract number and manufacturer part number. A cross-reference list shall be provided showing the Government (TACOM) part number and the corresponding vendor part number. (B035 CDRL SOWC 4155, Drawing Number Report)

ID : SOWC-4156

**2.1.1.6.9 TDP Custodianship**

The Contractor shall be responsible for all original document files in the Contractor's possession (e.g. 3-D Solid Models, 2-D line drawings, associated documents, technical documentation). As the TDP custodian, the Contractor shall make any changes authorized by JPO JLTV to said original document files, provide copies of the changed document files to CO-users and upon written request, provide document files and/or electronic files in one of the file formats identified below to the Government within 10 days of request.

ID : SOWC-4157

**2.1.1.6.10 Assembly Breakdown**

The Contractor shall establish and maintain an assembly breakdown reflecting the top/down generation breakdown of the JLTV FoV models that matches the PBLI structure. The assembly breakdown shall include all separable assemblies, items requiring component

**Name of Offeror or Contractor:**

specifications, and software.

ID : SOWC-4158

2.1.1.6.11 Documentation Maintenance

The Contractor shall provide engineering and technical support services and facilities to prepare and maintain 3-D models, drawings, specifications and other technical data comprising the product baseline for the JLTV FoV.

ID : SOWC-234

2.1.1.6.12 Production Technical Computer Aided Design (CAD) Data

The Contractor shall deliver complete Production Technical Computer Aided Design (CAD) for the JLTV FoV, IAW the Production Model Technical CAD Data. (Attachment 0017 SOW 234, Production Technical CAD Data) Prior to submission, the Contractor shall verify that the Top Level Assembly opens without errors. (B041 CDRL SOWC 234, Production Technical CAD Data).

ID : SOWC-3172

2.1.1.6.13 Interface Control Documents / Models

The Contractor shall develop and manage configuration of all JLTV FoV and CFE interfaces utilizing Interface Control Documentation (ICD) to include 3-D Models and 2-D Drawings. The JLTV FoV ICDs will capture all storage, tiedown, towing, GFE, and CFE interfaces. Each JLTV FoV CFE Kit shall have its own ICD describing the interfaces to the JLTV FoV or interface to GFE or to other CFE kits. The JLTV FoV ICDs will be separate and distinct from the product baseline components of the PBLI. The JLTV FoV ICDs will capture all mechanical, electrical, and software within the same ICD. All ICDs will be assigned a Part File number to be configuration managed. JLTV FoV ICDs will capture all Changes to the JLTV FoV ICDs as a Engineering Change Proposal (ECP). ICDs shall be validated in the final Physical Configuration Audit. The ICDs shall not contain Contractor proprietary data. (B032 CDRL SOW 3172, Interface Control Documents)

ID : SOWC-2929

2.1.1.6.14 Data Accession List (DAL)

All Contractor technical data or computer software generated in the performance of this contract or any subcontract shall be indexed on the DAL. Data or computer software shall be delivered, if ordered under DFARS 252.227-7027 Deferred Ordering of Technical Data or Computer Software, when not already otherwise ordered. The Government's rights in this technical data or computer software shall be as specified in DFARS 252.227-7013, -7014 and -7015. (B031 CDRL SOWC 2929, DAL)

ID : SOWC-4160

2.1.1.6.15 Software and Firmware

The Contractor shall assign software as a part number in the assembly breakdown and PBLI, and shall be documented in the TDP by application name, version and description referencing the Contractor software code repository. Firmware shall be assigned as a part number in the assembly breakdown and PBLI and shall be documented in the TDP by application name and version.

ID : SOWC-178

2.1.1.6.16 Source Code

The Contractor shall deliver a copy of all source code utilized on the JLTV FoV and developed by the Contractor or any Subcontractors, including C4ISR and Vetronics software and firmware. The source code shall be delivered separately from the vehicles. (B050 CDRL SOWC 178, Source Code)

ID : SOWC-3146

2.1.1.6.17 Software Images and Executables

The Contractor shall deliver a copy of all software images, executables, and configuration files necessary to enable complete installation of JLTV FoV software by the Government, either in a SIL or on a vehicle. This software and data shall include software virtual machine (VM) and system images, executables, parameter files, and configuration and calibration data utilized on the JLTV FoV, including C4ISR and Vetronics software and firmware. The data shall be delivered separately from the vehicles. (B057 CDRL SOWC 3146, Software Images and Executables)

ID : SOWC-4140

2.1.1.6.18 TDP Summary Data

ID : SOWC-164

2.1.1.6.18.1 Health Management System (HMS) Report

The Contractor shall provide a HMS Report to include their Diagnostic Fault Data Table, Sensor Strategy, the Fault Notification Strategy, and the Data Strategy. (B049 CDRL SOWC 164, HMS)

ID : SOWC-146

2.1.1.6.18.2 Vehicle Network Configuration Package

The Contractor shall provide a Vehicle Network Configuration package including Internet Protocol (IP) Addressing schema, IPv6 report, Controller Area Network (CAN) databases, and configuration files for each of the vehicle networks. (B047 CDRL SOWC 146, Vehicle Network)

ID : SOWC-180

**Name of Offeror or Contractor:**

## 2.1.1.6.18.3 Software Version Description (SVD)

The Contractor shall develop and deliver a SVD document to describe each software version release. (B051 CDRL SOWC 180, Software Version Description)

ID : SOWC-154

## 2.1.1.6.18.4 Electrical Architecture Metrics

The Contractor shall track a set of metrics for the JLTV FoV electrical architecture for the following aspects of the vehicle command and control systems (not including GFE hardware).

(a) Computing resources. These metrics shall include peak processor throughput & utilization (per processor) and volatile & nonvolatile memory usage (per board level or processor application) for the Driver's Smart Display Unit (DSDU), Commander's Smart Display Unit (CSDU) and Auxiliary Smart Display Unit (ASDU).

(b) Data Bus. These metrics shall measure throughput & utilization for all Vehicle Sensor Data Buses and the C4ISR/EW Data Bus.

(c) Functionality operation. This metric shall include start-up time for DSDU; time shall commence from vehicle ignition-on to when full functionality of the display is available. This metric shall also apply to the CSDU, and ASDU; time shall commence from power on to when full functionality of the CSDU, and ASDU is available through the display. This metric shall be tracked at temperature extremes specified in the JLTV Purchase Description (Attachment 0001) hot, cold, and room temperature (68F). (B048 CDRL SOWC 154, Electrical Architecture Metrics)

ID : SOWC-123

## 2.1.1.6.18.5 Routing Diagrams - Cabling, Wiring Harnesses, and Plumbing

The Contractor shall provide detailed logical wiring diagrams, schematics, electrical one-wire diagrams, connector pin-outs, and physical routing diagrams (harnesses, cables, and plumbing) of all electrical (incl. power generation test harnesses), fluid, and air lines in the JLTV FoV. (B005 CDRL SOWC 123, Wiring Diagrams)

ID : SOWC-84

## 2.1.1.6.18.6 Key Subsystems and Design Margins

The Government has identified key subsystems (Attachment 0010 SOWC 84, Key Subsystems and Design Margins) that could negatively impact the program schedule if they experience failures. The Key Subsystems are broken into three categories; Level 1, Level 2, and Level 3, depending on the extent of the impact to program schedule and timing, as well as design margins. The Contractor shall review Key Subsystem Design Failure Mode Effects and Analysis (DFMEAs) defined in Section E, Design Verification Plan & Report (DVP&Rs), and Process Failure Mode Effects and Analysis (PFMEAs) and brief and deliver findings as part of the monthly PQM IPT meetings (reference SOWC 4823).

ID : SOWC-119

## 2.1.1.6.18.7 Future C4I Systems Growth Analysis

As part of the Growth Margin Analysis, the Contractor shall conduct an analysis to determine how future C4I systems are to be integrated into the JLTV FoV, using the potential future requirements in Future C4I Systems Growth (Attachment 0011 Future C4I Requirements). The analysis shall include plans for space, weight, power, system and network interconnects, mounting provisions, computing resources (e.g. applications, bandwidth, memory, processing), and thermal loads for all of the systems listed in "Table 5 - Future C4I Systems Growth" of Annex K of the JLTV Purchase Description (Attachment 0001).

ID : SOWC-117

## 2.1.1.6.18.8 Growth Margin Analysis

Throughout the period of performance of this contract, the Contractor shall track the amount of growth margin in each of the following categories as a percentage of the total design: payload, armor, weight, computing, networks, data buses, electrical power, memory and towing capacity. As applicable, these growth margins shall be within the constraints of the transportability requirements as defined in the JLTV Purchase Description (Attachment 0001). The Contractor shall provide a fully detailed report documenting these available growth margins and the specific growth analyses in the following paragraphs. (B043 CDRL SOWC 117, Growth Margin Analysis).

ID : SOWC-4646

## 2.1.1.6.19 No-cost Incorporation of Government- Initiated Engineering Change Proposals, and Contractor Generated Changes

Any contractor generated changes incorporated into the contract shall be at no additional cost to the Government except at stated in Section C.2.1.1.1.5.7.1 (VECP)

Approved Engineering Changes (exclusive of VECPs) applicable to supplies to be delivered under this contract for which the estimate provided by the Contractor or the final negotiated amount applicable to the current and all following vehicle quantities, reflects a total +/- \$50,000 or less shall be incorporated at no cost to either party. All Contractor estimates shall be subject to validation by the PCO before the no-cost agreement is implemented. After validation, the PCO has the right to incorporate the engineering change by means of a unilateral modification to the contract. The Contractor shall provide data and analysis to the PCO demonstrating any changes in work performed and/or value to the Government at the time the ECP are submitted for approval.

**Name of Offeror or Contractor:**

ID : SOWC-3147

2.1.2 SE Program Support

ID : SOWC-3148

2.1.2.1 Environmental, Safety and Occupational Health (ESOH)

ID : SOWC-1128

2.1.2.1.1 ESOH Management Plan

The Contractor shall develop, implement and maintain an ESOH program IAW MIL-STD-882E. The Contractor shall prepare an ESOH Program Plan that documents their organizational resources and responsibilities for executing the ESOH program, specific ESOH tasks and procedures, the risk assessment methodology and risk acceptance criteria, ESOH products, and critical milestones. (B018 CDRL SOWC 1128, ESOH Management Plan)

ID : SOWC-237

2.1.2.1.2 ESOH Working Group

The Contractor shall participate in the JLTV ESOH Working Group (WG) IAW Task 105 of MIL-STD-882E. The Contractor shall participate in quarterly face to face meetings and monthly teleconferences. The face to face meetings shall be hosted on a rotating basis at the Contractor facility, Detroit metro area, and Aberdeen Proving Grounds.

ID : SOWC-238

2.1.2.1.3 Hazard Tracking Log

The Contractor shall prepare a Hazard Tracking Log (HTL) IAW the Hazard Tracking Log Content Requirements (Attachment 0018 SOWC 238, Hazard Tracking Log). The JPO JLTV will provide final acceptance on effectiveness of mitigations and the residual risk level. Closed out hazards shall remain on the HTL. (B012 CDRL SOWC 238, Hazard Tracking Log)

ID : SOWC-244

2.1.2.1.4 Hazardous Materials Management

For the purposes of this contract, hazardous materials are defined by FED-STD-313, Section 3.2 Specific Prohibited Hazardous materials for the JLTV FoV are identified in PDFOV-3576 of the JLTV Purchase Description (Attachment 0001). Hazardous materials prohibitions shall apply to all components, parts, and materials provided under this contract, including items purchased through a Subcontractor or supplier, Commercial Off The Shelf (COTS) components, OEM parts, and manufactured parts.

ID : SOWC-245

2.1.2.1.4.1 Exceptions to Hazardous Materials Requirements

Waivers from the hazardous materials requirements shall not be permissible except where a suitable alternative does not exist. The Contractor shall submit waiver requests to the COR no later than the SOWM using the Request for Use of Prohibited Materials (Attachment 0019 SOWC, 245, Exceptions to Hazardous Materials Requirements). Waiver requests shall include detailed technical justification for the use of prohibited hazardous materials. The Government will make the final determination on whether sufficient justification has been provided to support approval of any waiver requests. Government response will be provided to the Contractor within 45 days of receiving sufficient justification for the waiver request. The Contractor shall not deliver any items containing prohibited materials without the Government approval of the waiver request.

The following materials may be used without prior approval from the Government.

- a) Cadmium and hexavalent chromium on electrical connectors and back shells used to mate with cadmium electrical connectors on Government Furnished Equipment (GFE)
- b) Cadmium and hexavalent chromium on electrical connectors used in Automatic Fire Extinguishing Systems (AFES)
- c) Chemical Agent Resistant Coating (CARC) primers and topcoats
- d) Lead-acid batteries
- e) Lead solder
- f) Leaded battery terminal adaptors/clamps
- g) Steel containing up to 0.35 % lead by weight
- h) Aluminum containing up to 0.4 % lead by weight
- i) Copper and Brass alloys containing up to 4 % lead by weight
- j) Beryllium and Beryllium alloys used in electrical components
- k) Mercury containing components compliant with European Union (EU) Directive 2002/95/EC (RoHS)
- l) Trace amounts of identified restricted materials contained in base materials and/or alloys. For the purposes of this contract trace amounts are defined as <0.1% by weight for carcinogens and <1% by weight for all other materials.

ID : SOWC-247

2.1.2.1.4.2 Hazardous Materials Management Report

The Contractor shall prepare an Hazardous Materials Management Report (HMMR) IAW National Aerospace Standard (NAS) 411 REV 2 (dated April 29, 1994), section 4.4. (Exception to NAS 411 REV 2 Section 4.4.1: In addition to those hazardous materials delivered on the

**Name of Offeror or Contractor:**

system and required for operation and maintenance, the HMMR shall identify: all hazardous materials used in final system manufacture and assembly, specifying the process(es) utilizing the materials; any hazardous materials created by the system; and any anticipated hazardous wastes created during operation and maintenance of the system.) The HMMR shall specify which phase (manufacture, operation, and/or Sustainment) that each material is required for or created in.

The Contractor shall discuss status, changes or issues with the HMMR as part of all technical reviews, ESOH WG meetings, and each Program Management Review. (B015 CDRL SOWC 247, HMMR)

ID : SOWC-240

**2.1.2.1.5 Safety Assessment Report**

The Contractor shall provide a Safety Assessment Report (SAR) which documents the results of system safety and health hazard analyses, hazard evaluations, and any independent testing. The SAR shall address each configuration within the JLTV FoV. (B013 CDRL SOWC 240, Safety Assessment Report)

ID : SOWC-241

**2.1.2.1.6 Safety Review**

The Contractor shall provide two (2) SMEs to attend two Joint Services Weapons Safety Reviews (JSWSR) in the Washington DC area. Each review is expected to be one (1) day. The Government will notify the Contractor two weeks in advance of the reviews. The purpose of the JSWSR is to review the explosives safety of weapons or explosives systems integrated onto the JLTV FoV. During the JSWSR the Contractor shall be prepared to discuss and answer questions about the technical aspects of integrated weapons and active and reactive protection systems, and lithium batteries.

ID : SOWC-115

**2.1.2.1.7 EPA Emissions Requirements**

The JLTV FoV is not subject to EPA Motor Vehicle Heavy Duty Diesel Exhaust emission standards or the EPA Non-road exhaust emission standards since the vehicle will contain permanent armor protection. This determination is IAW 40 CFR, Sections 85.1703, 89.908 and 1068.225.

ID : SOWC-116

**2.1.2.1.8 Engine Emissions Analysis Report**

The Contractor shall provide a diesel engine emissions analysis report under transient and steady state test cycles using DF2 diesel fuel. This analysis and report shall be done using the engine(s) selected by the Contractor. (B004 CDRL SOWC 116, Engine Emissions Analysis Report).

ID : SOWC-243

**2.1.2.1.9 Environmental Compliance**

The Contractor shall ensure that all aspects of the contract execution, including all JLTV FoV hardware, are in compliance with United States Federal, State, and Local environmental regulations and requirements; including activities associated with design, prototype build, test, storage, and disposal.

ID : SOWC-242

**2.1.2.1.10 Lithium Battery Safety Data Package**

If lithium batteries are used in the system design, then the Contractor shall provide a safety data package that documents and demonstrates the stability of the design and validity of the battery selection. (B014 CDRL SOWC 242, Lithium Battery Safety Data Package)

ID : SOWC-248

**2.1.2.2 Human System Integration (HSI)/MANPRINT Working Group**

The Contractor shall conduct HSI/MANPRINT program activities in the areas of human factors engineering, manpower, personnel, training, health hazards, safety, and Soldier survivability IAW DoDI 5000.02 and AR 602-2.

The Contractor shall participate in the Joint HSI/MANPRINT Working Group (JMWG). The Contractor shall participate in monthly VTCs, and quarterly face to face JMWG meetings until initial vehicle delivery. The face to face meetings shall be hosted on a rotating basis at the Contractor facility, Washington, D.C. metro area, and Aberdeen Proving Grounds. The Government will establish the agenda for all JMWG meetings, Contractor meeting minutes are not required. After initial vehicle delivery the Contractor shall participate in quarterly JMWG meetings. During the JMWG meetings, the Contractor shall present HSI/MANPRINT program status and updates, design data, planned HSI/MANPRINT events, and event findings.

ID : SOWC-250

**2.1.2.2.1 Human Engineering Systems Analysis Report**

For Human Factors Engineering (HFE) requirements not specifically defined in the PD, the Contractor shall use the design standards contained in MIL-STD-1472 and MIL-STD-1474 for application of HFE practices for the JLTV FoV. The Contractor shall provide a Human Engineering Systems Analysis Report (HESAR). The CDRL shall include diagrams, illustrations, and drawings with measurements as applicable to support the analysis. (B016 CDRL SOWC 250, HESAR)

**Name of Offeror or Contractor:**

ID : SOWC-1363

## 2.1.2.2.2 Human Systems Integration (HSI) Issues Log

The Contractor shall develop and maintain an HSI Issues Log in Contractor format for HSI/MANPRINT issues. The HSI Issues Log shall be discussed at the Joint HSI/MANPRINT Working Group (JMWG). All Critical and Major issues (as defined in AR 602-2) shall have mitigation plans that identify what Contractor organization and person is responsible for resolution of the issue, with a schedule for resolution. If a Critical issue is not resolved in thirty (30) days from entry into the HSI Log, the Contractor shall notify the Government HSI/MANPRINT lead, in writing. If a Major issue is not resolved in sixty (60) days from entry into the HSI Log, the Contractor shall notify the Government HSI/MANPRINT lead, in writing. (B026 CDRL SOWC 1363, HSI Log)

ID : SOWC-103

## 2.1.2.3 Corrosion Prevention and Control Plan and Finish Specification Report

The Contractor shall develop, deliver, and implement a Corrosion Prevention and Control Plan (CPCP). The Contractor shall provide a a Finish Specification Report with the CPCP. (B001 CDRL SOWC 103, CPCP and Finish Specification Report)

ID : SOWC-104

## 2.1.2.3.1 Joint Interfaces, Materials, and Coatings

The Contractor shall provide 3D CAD models depicting part interfaces, materials of construction, fasteners, coatings, and torque values. The Contractor shall include a list of items that cannot meet the required service life due to normal wear. (B002 CDRL SOWC 104, L3D CAD\_Joint Interfaces, Materials, and Coatings)

ID : SOWC-105

## 2.1.2.3.2 Contractor Corrosion Team

The Contractor shall establish a Contractor Corrosion Team (CCT) that shall work with the JPO JLTIV Corrosion Prevention Action Team (CPAT) to ensure all corrosion issues are identified and addressed. The CCT shall participate in monthly telecom meetings with the CPAT. During CPAT meetings, the Contractor shall present corrosion issues, resolution actions, and status, and respond to issues raised by the CPAT (B003 CDRL SOWC 105, Contractor Corrosion Team Log).

ID : SOWC-176

## 2.1.2.4 Software

The Contractor shall have and maintain at least a Capability Maturity Model Integration for Development (CMMI-DEV) Level III certification recognized by the CMMI Institute for all business units and Subcontractors performing software development work. The Contractor and Subcontractors shall utilize their corporate CMMI-DEV Level III appraised processes in all software development, integration, and testing efforts for the JLTIV FoV.

The Contractor shall deliver all software, including Non-Developmental Item (NDI), and Commercial Off The Shelf (COTS), software in each delivered vehicle with appropriate licenses and without restrictions for usage in its intended vehicle application.

ID : SOWC-184

## 2.1.2.4.1 Software Problem Tracking

The Contractor shall use a closed loop problem tracking system to capture, track, and correct software problems. The Contractor shall provide the Government with access to the problem tracking system through the period of performance of the contract.

ID : SOWC-1174

## 2.1.2.4.2 Software Development Plan (SDP)

The Contractor shall provide a SDP. The Contractor shall use its own corporate software standards and shall tailor the SDP to JLTIV FoV software development. All JLTIV FoV software shall be developed IAW the Contractor developed SDP. (B020 CDRL SOWC 1174, Software Development Plan)

ID : SOWC-2761

## 2.1.2.4.3 Software Test Plan (STP)

The Contractor shall provide a STP. The Contractor shall use its own corporate software standards and shall tailor the STP to program needs. All software on the JLTIV FoV shall be tested IAW the Contractor developed STP. (B027 CDRL SOWC 2761, Software Test Plan)

ID : SOWC-3152

## 2.1.2.5 Cybersecurity on JLTIV FoV, SILS, and Kits

ID : SOWC-148

## 2.1.2.5.1 Platform Information Assurance (IA) Strategy

The Contractor shall execute a Cybersecurity Strategy which includes tracking the status of Cybersecurity Product certifications, system security requirements derived from the JLTIV Purchase Description (Attachment 0001), design system security architecture, detailed system security design; security test strategy, and risks based on the proposed architecture. The Contractor shall track if the Cybersecurity or Cybersecurity-enabled products used within the architecture are on the DoD Unified Capabilities (UC) Approved Products List. For any products not on the List, the Contractor shall describe the path to obtain certification. (B007 CDRL SOWC Cybersecurity Product Certification).

**Name of Offeror or Contractor:**

ID : SOWC-150

## 2.1.2.5.2 Cybersecurity and Software Scans

The Contractor shall provide the Government access to the software source code repositories for all JLTV FoV software (excluding closed-source Commercial Off The Shelf (COTS)) for Software Code Scans.

The Software Assurance scans will allow the Government to conduct Software Assurance scans on the Contractor's C4ISR/EW and Vetrionics software to determine if there are any vulnerabilities in the system. The Contractor shall ensure each source code repository can accept the Government's Hewlett Packard (HP) Fortify 360 Suite Static Code Analyzer scanning software tool.

ID : SOWC-152

## 2.1.2.5.2.1 Initial Cybersecurity and Software Scan

The Contractor shall provide the Government access to the SIL for the Baseline Cybersecurity scan. The Baseline Scans shall be held NLT 150 days after Contract Award.

ID : SOWC-2755

## 2.1.2.5.2.2 Follow-on Cybersecurity Scans

If required, the Contractor shall provide the Government access to the SIL for additional testing identified at the Baseline Cybersecurity and Software Code Scans. The timing of additional testing shall be determined by the Government. The follow-on-scans will only be conducted if the initial scan requires action on the Contractor's part to resolve deficiencies. The recurring scans are conducted annually at a minimum.

ID : SOWC-153

## 2.1.2.5.2.3 Recurring and Software Scans

The Contractor shall provide the Government access to the software source code repositories for all JLTV FoV software for recurring scans. The scans shall be conducted not less than annually and as required following significant changes to the JLTV FoV software or architecture.

ID : SOWC-5270

## 2.1.2.5.3 TEMPEST Review

The Contractor shall provide onsite C4ISR SMEs; documentation for all vehicle and equipment (CFE & GFE) configurations; vehicle wiring diagrams and routing locations; types and locations of LED lighting during TEMPEST reviews with a CTTA (Certified TEMPEST Technical Authority). The technical reviews shall occur at the Baseline and subsequent changes to vehicle equipment or wiring. The results of the TEMPEST reviews will determine the need of vehicle TEMPEST testing. The Baseline review shall be held NLT 180 days after Contract Award.

The Government estimates the Contractor to provide two (2) SMEs for two (2) weeks for the Baseline event and one (1) week for subsequent reviews.

ID : SOWC-1136

## 2.1.2.5.4 Tactical Public Key Infrastructure (TPKI) Implementation Analysis

The Contractor shall conduct an analysis to determine how PKI will be integrated into the JLTV FoV computing enclaves to provide identification, digital signature for communications and software (CFE and GFE), and encryption. The analysis shall include plans for a ruggedized PKI token (used for group and/or individual certificates), PKI authentication infrastructure and interoperability with DoD GIG PKI, and future interface with GFE devices that will utilize JLTV FoV and JLTV FoV-hosted resources to connect to the GIG. (B019 CDRL SOWC 1136, TPKI Report)

ID : SOWC-1139

## 2.1.2.5.5 Cybersecurity Workforce

The Contractor shall designate one individual as subject matter expert for Cybersecurity in the JLTV FoV. This person will be the single point of contact in regard to all Cybersecurity issues at the Contractors facility. The Contractor's Cybersecurity subject matter expert shall meet the requirements for IA Technical (IAT) Level III IAW DoD 8570.01-M, Information Assurance Workforce Improvement Program.

ID : SOWC-1507

## 2.1.2.5.6 Cybersecurity Testing

The Contractor Cybersecurity personnel shall attend execution of and recovery from Cybersecurity readiness (Red Team) testing. Cybersecurity readiness testing will be conducted during Operational Test events and test events jointly determined with the Government. The Government estimates the Contractor to provide two (2) SMEs for two (2) weeks per event.

ID : SOWC-2819

## 2.1.2.5.7 Cybersecurity Log Management Plan

The Contractor shall conduct an analysis to determine how log files (e.g. security, system, application, firewall, antivirus) will be collected and archived from both classified and unclassified smart displays and network devices in the JLTV FoV. (B028 CDRL SOWC 2819, Cybersecurity Log Management)

**Name of Offeror or Contractor:**

ID : SOWC-2820

2.1.2.5.8 Cybersecurity Vulnerability Management  
Software Maintenance Plan

The Contractor shall conduct an analysis to determine how Information Assurance Vulnerability Alert (IAVA) patches and software updates (operating systems, applications and firmware) will be implemented across the active platforms including SIL, CM and test fleet, and to delivered / operational fleet. Implementation plan must address both cyclic and out-of-cycle updates based on severity. (B029 CDRL SOWC 2820, Cybersecurity Vulnerability Management, Contractor format)

ID : SOWC-2821

## 2.1.2.5.8.1 Cybersecurity Vulnerability Management - Notification Monitoring

The Contractor shall monitor Government, vendor, and industry releases by subscribing to vulnerability notification services and reviewing other data available to identify vulnerabilities in software and hardware in the JLTV FoV C4I and Vetronics systems.

The Contractor shall subscribe to the Government email notifications from the Information Assurance Vulnerability Management notification system, currently hosted at <https://iavm.csd.disa.mil/>.

ID : SOWC-2822

## 2.1.2.5.8.2 Cybersecurity Vulnerability Management - Database

The Contractor shall maintain a database of vulnerabilities in software and hardware in the JLTV FoV C4I and Vetronics systems. The database shall include the vulnerability identifier, severity, applicability to JLTV FoV systems, implementation status.

ID : SOWC-2823

## 2.1.2.5.8.3 Cybersecurity Vulnerability Management - Software Code Scan

The Contractor shall resolve findings identified in all software (including open source software) evaluated in the software code scans.

ID : SOWC-3155

## 2.1.3 Delivered Configuration

ID : SOWC-1477

## 2.1.3.1 As-Built Configuration List

The Contractor shall maintain an As-Built Configuration List (ABCL) for each vehicle built IAW (Attachment 0031 SOW 1477, ABCL). The Government shall have access to the ABCL data. The ABCL shall be prepared in indenture level sequence down to the Product Baseline Index level and include quantities for each.

ID : SOWC-3156

## 2.1.4 External Integration

ID : SOWC-120

## 2.1.4.1 Vehicle Specification Sheet

The Contractor shall maintain vehicle specification sheets for each JLTV FoV Configuration, IAW Vehicle Specification Sheet (Attachment 0026 SOWC 120, Vehicle Specification Sheet). These sheets shall be updated when configuration changes are made that affect the data reported. (B044 CDRL SOWC 120, Vehicle Spec Sheet)

ID : SOWC-128

## 2.1.4.2 Modeling and Simulation Input Data

The Contractor shall submit fully completed Modeling and Simulation (M&S) input data for each JLTV FoV configuration (Attachment 0012 SOWC 128, M&S Input Data) (B006 CDRL SOWC 128, M&S Input Data).

ID : SOWC-136

## 2.1.4.3 Vulnerability Analysis Input Data

The Contractor shall submit fully completed Vulnerability Analysis input data for each JLTV FoV configuration (Attachment 0013 SOW 136, Vulnerability Analysis Input Data Sheets) (B039 CDRL SOWC 136, Vulnerability Analysis Input Data).

ID : SOWC-4647

## 2.1.4.4 High Fidelity Modeling Technical Exchange

The contractor shall participate in High Fidelity (HF) Computational Physics (CP) Modeling and Simulation (M&S) for survivability analysis. Contractor, subcontractor, and component vendor participation shall include establishing NDAs upon contract award with the HF modeling organization and allowing the transfer of Contractor, subcontractor, and component vendor CAD models (reference B041 CDRL SOWC 234, Production Technical CAD data) and other M&S data (reference B006 CDRL SOWC, 128, M&S Input Data, B039 CDRL SOWC 136, Vulnerability Analysis Input Data, and B040 CDRL SOWC 233, CAE Models) to the HF modeling organization 30 days after contract award. The Contractor, subcontractor, and component vendor shall provide HF modeling organization with access to the materials, construction, and physical characteristics of critical survivability components. The Contractor, subcontractor, and component vendor shall support five (5) technical exchange meetings with a Government lab or Government Contractor to discuss implementing technical data into the modeling and simulation. The Contractor, subcontractor, and component vendor shall have appropriate technical experts in support of these technical exchange meetings. For planning purposes, these meetings are expected to be one (1) day events.

**Name of Offeror or Contractor:**

ID : SOWC-233

## 2.1.4.5 Computer Aided Engineering Models

The Contractor shall deliver complete simulation-based Computer Aided Engineering (CAE) models and model data for each JLTV FoV configuration IAW the CAE Models data sheets.(Attachment SOWC 233, CAE Models) (B040 CDRL SOWC 233, CAE Models)

ID : SOWC-175

## 2.1.4.6 Government Managed C4ISR Interoperability Initiatives Participation

The Contractor shall have ongoing participation in Government initiatives required for interoperability to support design, compliance, and testing efforts. The Contractor shall remotely attend by web and telephone each of the VICTORY working groups (Information Assurance, Data Bus, Application Interfaces) not to exceed two (2) times per month per working group and attend the VICTORY Face to Face meetings, which will occur no more than once per calendar year. The Contractor shall remotely attend by web and telephone the Common Operating Environment (COE) Program Review Meetings not to exceed two (2) times per calendar year. The Contractor shall provide the required documentation, software, test data, and technical personnel to support Government interoperability initiatives. (reference B050 CDRL SOWC 178 Source Code, B057 CDRL SOWC 3146 Software Images and Executables, B048 CDRL SOWC 54 Electrical Architecture Metrics)

ID : SOWC-2751

## 2.1.4.7 At-Platform Test Devices

The Contractor shall utilize only GFE At-Platform test devices (MSD/VADs/EMSS) for electronic maintenance of the JLTV Vetronics. The Contractor shall work with and provide technical information to the GFE At-Platform PMS to improve upon the development of JLTV FoV specific applications hosted on the At-Platform test devices. Each of the GFE At-Platform test device shall be able to independently support the electronic maintenance needs of the JLTV FoV.

ID : SOWC-300

## 2.1.4.8 GFE Integration

The Contractor shall integrate all applicable Government Furnished Equipment and Government Furnished Information provided IAW the GFE/GFI List (Attachment 0027 300, GFE/GFI List).

Integration shall include software and hardware, providing space, power, weight allocation, heat rejection, cabling & cableways, through hull connections, and all other hardware & software interfaces necessary to meet the requirements as stated in the JLTV Purchase Description (Attachment 0001).

Dependent on design, the Contractor may be able to leverage complete GFE kits to fully perform integration, if not, the Contractor shall provide new integration items (e.g. brackets, wiring).

The Contractor shall integrate the current version of Software GFE/GFI as of the first SIL Demonstration (Section C.SIL Demo). Throughout contract performance, the Contractor shall integrate updated versions of Software GFE/GFI, in the SIL and on all vehicles, for critical fixes or significant functionality improvements.

ID : SOWC-3157

## 2.1.5 Risk Management

ID : SOWC-549

## 2.1.5.1 Manufacturing Development Strategy

The Contractor shall create, utilize, and provide a Manufacturing Development Strategy. The strategy shall include: manufacturing processes and procedures used under this contract, changes to the manufacturing processes and procedures required to conduct FRP. The Strategy shall include what evidence the Contractor intends to provide to show the path to Manufacturing Readiness Level (MRL) 9 prior to the FRP decision. The Contractor shall utilize the criteria and processes defined in MIL-HDBK-896 Manufacturing and Quality Program and DoD MRL Deskbook (latest editions) as guides for this effort, including definitions and measurement of MRLs. (B017 CDRL SOWC 549, Manufacturing Development Strategy)

ID : SOWC-209

## 2.1.5.2 Risk Management

The Contractor shall develop a risk management plan IAW the DoD Risk Management Guide (August 2006 version) and best commercial practices. The plan shall be used by the Contractor to monitor management, cost, and schedule of the contract efforts and technical risks relative to contract performance. The Contractor risks shall be briefed and displayed in all technical reviews, risk review board meetings, Program Management Reviews, and IPT meetings (reference A001 CDRL SOWC 34, Agenda and Read Ahead and A002 CDRL SOWC 36, Minutes).

ID : SOWC-210

## 2.1.5.2.1 Risk Tracking Reports

The Contractor shall develop and deliver Risk Tracking Reports based on the scoring criteria and template in the JLTV FoV Risk Template and Instruction (Attachment 0016 SOW 210, Risk Management Scoring Criteria and Reporting Template). The Contractor shall systematically identify and analyze all risks, and shall develop mitigation plans for all red and yellow risks scored IAW Attachment 0016 SOW 210, Risk

**Name of Offeror or Contractor:**

Management Scoring Criteria and Reporting Template. (B009 CDRL SOWC 210, Risk Tracking Reports)

ID : SOWC-3159

2.1.6 Verification

ID : SOWC-3160

2.1.6.1 Verification Testing

ID : SOWC-106

2.1.6.1.1 Systems Interoperability

The Contractor shall be responsible for systems interoperability including those required for Net Ready Certification, Army Interoperability Certification (AIC), and USMC Interoperability Certification (UIC). Systems interoperability shall, at a minimum, include interoperability of all hardware, software, and logistics systems included in the JLTV FoV (including CFE, GFE, and GFI). The Contractor shall work with Government SMEs to establish and document the JLTV FoV system configurations and parameters that permit Interoperability.

The Contractor shall provide C4ISR and Vehicle SMEs personnel and equipment (JLTVs with integrated kits, CSIL, GFE, CFE) to conduct interoperability reviews and testing at the Contractor SIL and Government sites.

The Government estimates the number of Interoperability events is as follows:

- AIC: Six (6) events during LRIP and 2 events per year post-LRIP. Event duration is two (2) weeks with two (2) SMEs.
- UIC: Six (6) events during LRIP and 2 events per year post-LRIP. Event duration is 2 weeks with two (2) SMEs.
- JITC: Six (6) events during LRIP. Event duration is four (4) weeks with two (2) SMEs.
- VICTORY: Six (6) events during LRIP (does not include VICTORY Working Group participation). Event duration is two (2) weeks with two (2) SMEs.

ID : SOWC-1490

2.1.6.1.1.1 Systems Interoperability Report

The Contractor shall provide and maintain a Systems Interoperability Report to document Contractor AIC, UIC, Net Ready Certification CJCSI 6212.01, and VICTORY test preparation (report delivered 60 days prior to the start of Government Interoperability test events and SIL Configuration and Audit Verification). The report shall include all interoperable systems and be updated as the JLTV FoV design evolves. (B055 CDRL SOWC 1490, System Interoperability Report)

ID : SOWC-160

2.1.6.1.2 Contractor Systems Integration Lab (CSIL)

The Contractor shall develop and use the Contractor SIL to integrate and test all JLTV FoV electrical system (incl. Vetrionics, C4ISR, vehicle ECUs, LRUs, CFE kits, GFE, power distribution systems) hardware and software prior to full vehicle integration and any subsequent changes initiated by Contractor or Government as part of an ECP or STS work directive. The Contractor SIL shall be sufficient in size to integrate all the CFE and GFE systems concurrently (in a single room) and include the permanent mounting of all GFE terrestrial and satellite antennas on the roof to permit continuous SIL connectivity and data exchanges to Government satellites (incl. GPS) and near-by development/test vehicles. The SIL(s) shall contain all up-to-date JLTV FoV production-intent electrical and electronic systems (modules, displays, controls, clusters, cabling, software, and harnesses) and GFE electronic hardware and software to enable the replication of fully integrated vehicles. The SIL(s) shall be able to demonstrate actual hardware for both four-seat and two-seat variants. The Contractor shall provide the Government access to the Contractor SIL and provide the ability for the Government to execute tests and collect its own data independently.

The Contractor SIL shall be functional and the Contractor conducts a SCAVA (SIL Configuration and Verification Audit) prior to the Baseline Cyber Security Scans. The Contractor shall also conduct a SCAVA prior to subsequent Cyber Scans and/or changes to software or hardware production baseline and interoperability test events. Starting at the Baseline Cyber scans the Contractor SIL shall: be considered a configuration managed item IAW MIL-HDBK-61A; remain operationally functional and complete; no transfer of allocated SIL assets without Government CM notice; up-to-date software and hardware.

ECP and STS work directives shall be validated and documented in the Contractor SIL prior to implementation on the vehicles.

ID : SOWC-162

2.1.6.1.2.1 SIL Configuration and Verification Audit (SCAVA)

The Contractor shall develop and review the recommended operating procedures for the execution of the events identified in the SIL Configuration and Verification Audit (Attachment 0015 SCAVA). This information shall be available to the Government and discussed at each PMR and 30 days prior to any SCAVA event. The Government may execute the functional verification at the CSIL during the SCAVA events at Government discretion.

**Name of Offeror or Contractor:**

ID : SOWC-3171

## 2.1.6.1.2.2 Spectrum Frequency Allocations

The Contractor shall obtain frequency authorization for all GFE radio transceivers, from an appropriate Government authority, prior to utilizing controlled frequencies at a Contractor location.

ID : SOWC-4631

## 2.1.6.1.3 Government System Integration Labs (GSILs)

The Contractor shall support the Government SIL(s) (in addition to the Contractor SIL) located near the JPO JLTV. The Contractor shall provide the necessary JLTV FoV CFE (Kits, LRUs, hardware, software, wiring) and technical information to exactly replicate the systems and equipment in the Contractor SIL. The Contractor shall be responsible for installing GSIL systems, maintaining software and hardware updates, and synchronization with both Government and Contractor SILs.

ID : SOWC-2824

## 2.1.6.1.4 Cybersecurity Vulnerability Management - Operational Cybersecurity Testing

The Contractor shall analyze the results of Operational Cybersecurity (Red Team) test events and implemented countermeasures to enhance the overall security posture of the JLTV FoV information systems.

ID : SOWC-2762

## 2.1.6.1.5 Software Test Report

The Contractor shall deliver a Software Test Report with each software drop provided to the Government through the period of performance of the contract. The Software Test Report shall document all testing (regression, unit, subsystem, system) performed on the software drop prior to delivery to the Government, and all known issues with the software. (B056 CDRL SOWC 2762, Software Test Report)

ID : SOWC-3161

## 2.1.6.2 Verification Analysis

ID : SOWC-141

## 2.1.6.2.1 Environmental Survivability and Reliability

ID : SOWC-142

## 2.1.6.2.1.1 Electromagnetic Environmental Effects (E3)

The Contractor shall perform analyses, studies, inspections, and tests to verify that the JLTV FoV is designed to comply with the applicable E3 standards identified in the JLTV Purchase Description (Attachment 0001). The analyses, studies, inspections, and tests shall characterize the E3 performance of the integrated system including all spectrum-dependent subsystems, CFE Kits, and GFE.

ID : SOWC-143

## 2.1.6.2.1.1.1 Electromagnetic Environmental Effects (E3) Performance Report

The Contractor shall provide an E3 Performance Report that details the E3 performance described above. (B045 CDRL SOWC 143, E3 Performance Report)

ID : SOWC-144

## 2.1.6.2.1.2 Co-site Interference and Antenna Optimization Report

The Contractor shall analyze potential interference patterns (co-site interference's) and optimize placement of all vehicle antennas (including Electronic Warfare) for all vehicle and antenna configurations. The Contractor shall include and identify any CFE or GFE co-site mitigation systems. Specifically for the JLTV FoV-CCWC configuration, the analysis shall include how each antenna is protected from the effects of missile exhaust. The Contractor shall provide the results of this analysis, including expected performance, antenna placement diagrams, Radio Frequency (RF) characteristics. (B046 CDRL SOWC 144, Co-Site)

ID : SOWC-145

## 2.1.6.2.1.3 MIL Grade Connector Waivers

The Contractor shall submit waiver requests for non-MIL grade connectors (reference PDFOV-7660) using the format defined in MIL Grade Connector Waiver Form (Attachment 0014 SOWC-145 MIL Grade Connector Waiver Form), and shall include technical justification and qualification standards for the use of the alternate connector. All non-MIL grade connector waivers shall be submitted to the COR by SOWM. Waivers are intended to be dispositioned (approved/rejected) by the Government by FBR. If necessary, additional waivers will be considered up to nine months after Contract Award.

ID : SOWC-174

## 2.1.6.2.2 Data Bus Communication Failure Default Mode Analysis

The Contractor shall perform analysis that demonstrates that when data bus communication required to control or configure components fails, the controlled or configured component will operate in a default state that provides for fail-safe operation. The analysis will be discussed during PFMEA reviews. (reference PDFOV-1883 in JLTV Purchase Description Attachment 0001).

ID : SOWC-149

## 2.1.6.2.3 IA Accreditation Artifact Package

**Name of Offeror or Contractor:**

The Contractor shall provide an IA Accreditation Artifact Package. (B008 CDRL SOWC 149, IA Artifact Package)

ID : SOWC-122

**2.1.6.2.4 Transportability Report**

The Contractor shall submit a Transportability Report, which includes data on recommended procedures for positioning and securing the JLTV FoV for transport by trailer and rail car, slinging and lifting the vehicles, and procedures, man-hours and all tools required for any disassembly necessary for shipment by highway, rail, marine, and air. (B058 CDRL SOWC 122, Transportability Report)

ID : SOWC-192

**2.2 RELIABILITY, AVAILABILITY, AND MAINTAINABILITY (RAM) PROGRAM**

ID : SOWC-193

**2.2.1 RAM Program**

The Contractor shall develop, implement, and maintain a comprehensive RAM Management Program throughout the period of performance of this contract. The RAM management program shall establish a process to achieve RAM requirements in the JLTV Purchase Description (Attachment 0001). The Contractor shall ensure products obtained from Vendors meet RAM requirements. The Contractor shall monitor system design to identify, assess, and implement failure analysis and corrective actions and to ensure compliance with RAM requirements. The Contractor shall develop engineering processes to ensure a reliable and maintainable design reflected in a corresponding RAM model specified in SOWC 194. American National Standards Institute document GEIA-STD-0009-2008, including the Checklist for Evaluating Reliability Program Plans (RPP), shall be used as guidance for reliability program development.

The Contractor shall make available all RAM data for all Subcontractor supplied component or subsystem. This data shall include Reliability Block Diagrams (RBD), Failure Modes Effects and Analysis (FMEA), Fault Tree Analysis (FTA), Physics of Failure (PoF) Failure Reporting, Analysis, and Corrective Action System (FRACAS), RAM allocations, RAM predictions, and critical items. The Contractor shall develop and submit a RAM Management Plan as a comprehensive summary of the system's reliability and maintainability activities, functions, processes, test strategies, measurements, data collections, resources, and timelines required to ensure that the specified reliability and maintainability is achieved throughout the vehicle's lifecycle. (D001 CDRL SOWC 193, RAM Management Plan).

ID : SOWC-776

**2.2.1.1 Procedures and Controls**

The Contractor shall use a closed loop design process and FRACAS to identify and track all failure modes. The Contractor shall start to identify the failure modes immediately upon contract award and continue to identify and analyze failure modes throughout the period of contract performance. The Government will provide the JLTV FoV Failure Definition Scoring Criteria (FDSC) (reference Attachment 0054 SOWC 194, FDSC). The Contractor shall use accelerated testing and environmental stress screening to confirm failure modes, conduct root cause analysis, and validate corrective actions.

Throughout Government testing, the Contractor shall track all Test Incident Report (TIR)s scores listed as Operational Mission Failure (OMF) or Essential Function Failure (EFF) in a spreadsheet. The spreadsheet shall include the TIR number, TIR title, test site, vehicle ID, vehicle mileage, date of occurrence, grouping of failure modes, failure rate, corrective action (Baseline Change Notification (BCN) number and any revisions to the BCN, BCN implementation date, and proposed Fix Effectiveness Factor (FEF). The Government will provide the Contractor with a Fix Effectiveness Factor (FEF) Guideline. (D004 CDRL SOWC 776, Failure Mode Tracking)

ID : SOWC-5094

**2.2.1.2 Software Reliability**

The Contractor shall develop and execute a Software Reliability Program IAW Society of Automotive Engineers (SAE) JA1002 and SAE JA1003. Software Reliability Program shall define the expected reliability or predicted field defect density and probability of late delivery, probability of failure on demand, rate of reliability, root cause analysis of the associated development process where introduced, identified improvements that increase Availability and Reliability, evaluate the effectiveness of implemented improvements. Software Reliability Program outputs, interim, and final analysis results shall be briefed, displayed, and discussed at IPT meetings as well as major reviews IAW the Government provided IMP (reference A002 CDRL SOWC 36, Minutes).

ID : SOWC-777

**2.2.1.3 RAM IPT**

The Contractor shall hold a weekly RAM IPT meeting throughout the period of contract performance. The Contractor and Government shall establish the date, time, and duration of the weekly RAM IPT meetings at the SOWM. The Contractor shall provide meeting minutes (Reference A002 CDRL SOWC 36, Minutes).

ID : SOWC-194

**2.2.2 Reliability Availability Maintainability Model**

The Contractor shall develop and utilize a RAM model for each JLTV FoV mission package configuration.

The RAM model shall be developed using appropriate design tools and processes such as: Reliability Block Diagram, Fault Tree Analysis (FTA), Failure Modes and Effects Analysis (FMEA), Design Verification Plan & Report (DVP&Rs), Reliability Centered Maintenance (RCM) concepts, and Accelerated Life Cycle Testing (ALT). Throughout the period of contract performance, the Contractor shall update the RAM model whenever new failure modes are identified or when RAM predictions are impacted by design or manufacturing changes.

**Name of Offeror or Contractor:**

The RAM model shall consist of the lowest identifiable elements and how elements relate to each other. The RAM model shall encompass all hardware and non-hardware elements, to include Commercial Off-the-Shelf (COTS), Non-Developmental Items (NDI), Government Furnished Equipment (GFE), software, human factors, and manufacturing. The RAM model shall be used to: (1) generate and update the RAM allocations at the Line Replaceable Unit (LRU) Level, (2) generate and update RAM predictions at the LRU level, (3) identify critical items in the system design and (4) identify additional design or testing activities required to achieve the RAM requirements. Critical items are defined as those elements whose failure impacts mission completion, essential functions, or safety; or elements whose failure rates contribute significantly to the overall system. This information shall be briefed, displayed, and discussed at RAM IPT meetings as well as major reviews IAW the Government provided IMP.

The Government will provide the Contractor with a Failure Definition/Scoring Criteria (FD/SC) (Attachment 0054 SOWC 194, FDSC) and the Operational Mode Summary/Mission Profile (OMS/MP) (Attachment 0055 SOWC 194, OMSMP).

ID : SOWC-203

**2.2.2.1 RAM Predictions**

The Contractor shall develop, maintain, and deliver a RAM prediction report. The report shall provide detailed RAM predictions IAW the JLTV Purchase Description (Attachment 0001) based on a defined mission package configuration. RAM predictions shall include predictions at the LRU level for the JLTV FoV design at the A-structure armor protection level as well as with the B-kit installed. RAM predictions shall include failure rates for each LRU and shall further identify whether the individual failure rates are estimated (E), calculated (C), or measured (M). RAM predictions shall be rolled up to the system level. The Contractor shall update the predictions each time significant design or mission profile changes significantly impact the vehicle or any of its subsystems. The Contractor shall document any assumptions, boundary conditions and any test or modeling inputs used in developing RAM predictions.

The Contractor shall generate the RAM predictions by utilizing actual component and subsystem test-generated data when available with test inputs at least equivalently demanding as the JLTV FoV Operational Terrain (JLTV Purchase Description (Attachment 0001), Annex OMS/MP). The Contractor may also use previously generated data for COTS items to generate RAM predictions, provided that the testing represented the OMS/MP. The Contractor shall not base its RAM predictions solely on models, on Non-Electronic Parts Reliability Data (NPRD), or on MIL-HDBK-217 data. If inputs used to generate RAM predictions are not representative of the OMS/MP, then the Contractor shall use an adjustment factor to account for differences between OMS/MP and actual inputs used. The Contractor shall provide rationale in this CDRL for any adjustment factors. (D002 CDRL SOWC 203, RAM Prediction Report).

ID : SOWC-206

**2.2.3 Reliability Improvement Plan**

The Contractor shall develop, implement, and deliver a Reliability Improvement Plan for identifying candidates for growing reliability above the requirements in the JLTV Purchase Description (Attachment 0001). The Reliability Improvement Plan shall outline a structured method to mature the system's reliability through the identification of failure modes, root cause analysis, and implementation of corrective actions. (D003 CDRL SOWC 206, Reliability Improvement Plan)

ID : SOWC-4197

**2.3 INTEGRATED PRODUCT SUPPORT (IPS)**

ID : SOWC-4198

**2.3.1 IPS Program**

The Contractor shall produce and deliver IPS products on JLTV FoV as an integral part of the design, development and integration process. The contractor shall address all applicable and related elements of logistics that will focus on the highest possible system availability at the lowest product support cost.

The Contractor shall design an engineering organization that has appointed Logistics Support Analysis (LSA) and Logistics Product Data (LPD) focal points to coordinate design interface activities supporting LSA/LPD tasks and subtasks that is required to develop and produce the required logistics products to be used by the Government.

ID : SOWC-4199

**2.3.2 IPS Program Management**

The Contractor shall designate an IPS Manager to ensure program objectives are achieved within program cost and schedule. Additionally, the IPS Manager shall possess the authority to manage, direct, and control the execution of all Product Support Elements (PSE) under contract. The IPS Manager shall conduct the first Logistics IPT meeting (reference SOWC 18) in conjunction with the SOWM. The Contractor shall plan to conduct weekly IPT meetings through FRP decision to discuss all IPS elements.

ID : SOWC-4200

**2.3.2.1 IPS Program Management Plan**

The Contractor shall provide and execute a plan for managing the IPS program. The plan shall describe the Contractor's organization, lines of communication, and schedule of activities, with associated resources and management controls. (C001 CDRL SOWC 4200, IPS Program Management Plan)

**Name of Offeror or Contractor:**

ID : SOWC-4201

## 2.3.2.2 Data Validation

The Contractor shall validate all Integrated Product Support data deliverables prior to submittal to the Government.

ID : SOWC-4202

## 2.3.2.3 Dedicated Hardware

The Contractor shall ensure sufficient quantities of dedicated hardware to include GFE vehicles, components, repair parts, consumable supplies, tools, and support equipment are available to accomplish all IPS development, reviews, validations, verifications, and logistics demonstrations (LDs).

ID : SOWC-4204

## 2.3.2.3.1 Existing Government tools and Test, Measurement, Diagnostic Equipment.

The Contractor shall notify the Government upon identification of any new special tools and Test Measurement, Diagnostic Equipment (TMDE). Existing Government tools and TMDE shall be utilized and introduction of new special tools and TMDE will require Government approval. Contractor recommendations for introducing new special tools and TMDE into the Government's maintenance and supply system shall require supporting justification identified by the Contractor's supportability analysis and is subject to approval for use by the Government's IPS IPT. If approved, the Contractor shall proceed with development of related support requirements. If disapproved, the Contractor shall provide alternative support methods using existing Government tools and TMDE that are authorized to JLTV users, at no additional cost to the Government. The Government will use Maintenance Support Device (MSD), Vehicle Automated Diagnostics System (VADS), and the Electronic Maintenance Support System (EMSS) for interactive fault isolation and Interactive Electronic Technical Manuals (IETMs).

ID : SOWC-4205

## 2.3.2.4 IPS Schedule

As a subset of the JLTV program IMS, the Contractor shall develop and maintain an IPS Schedule to manage the JLTV IPS program through completion of the contract. The IPS Schedule shall reflect the details of the IPS work content requirements of this contract. The Contractor shall incorporate the IPS Schedule into the JLTV IMS (reference A004 CDRL SOWC 2785, IMS). The Contractor shall present the IPS Master Schedule at each Logistics IPT meeting and incorporate any IPT approved changes to the schedule into the JLTV IMS. (C002 CDRL SOWC 4205, IPS Schedule)

ID : SOWC-4206

## 2.3.2.5 IPS Management Control Log

The Contractor shall maintain an IPS Management Control Log that tracks all changes to the production configuration baseline and subsequent IPS and LPD impacts. The log shall include and track all changes to the Product Baseline and identify impacted IPS and LPD elements whether required or not to include the elements IAW C003 CDRL SOWC 4206, IPS Management Control Log.

ID : SOWC-4208

## 2.3.2.5.1 IPS Configuration Freeze

In addition to tracking changes to the Product Baseline and identifying IPS and LPD impacts, the IPS Management Control Log will be used to establish IPS configuration freezes required to complete the LPD and will represent the cut-off date for data that is used to build logistics products. This will allow for completion of the product in time to meet a given milestone event, for example, Log Demo or future TM revision. The initial IPS configuration freeze shall occur 60 days prior to start of Log Demo. Dates for future IPS configuration freezes will be documented in the ILS IMS as agreed to by both parties. Critical safety issues or changes identified after the ILS configuration freeze shall be reviewed on a case by case basis and a schedule agreed to by both parties for incorporation into the LPD.

ID : SOWC-4209

## 2.3.3 Logistics Support Analysis and Logistics Product Data Objectives

Logistics Support Analysis (LSA) provides a foundation for the Integrated Product Support (IPS) program by analyzing the system design and documenting source data to support the development and the delivery of the vehicle's system product support packages such as maintenance task lists, training support, technical publications, and initial provisioning package. PowerLOG-J will serve as the JLTV IPS programs logistics data management tool. It will be used to develop, evaluate, review, and integrate logistics data for materiel systems. LPD comprises the IPS records and related engineering and logistics data acquired or generated as a result of LSA conducted during the JLTV FoV design, development, and initial production and fielding phases. LPD enables the planning and execution of maintenance support strategies, including the identification of resources such as personnel, support equipment, facilities and transportation requirements, and initial provisioning package, cataloging, and item management. It also supports the management and tracking of design changes to the product baseline. The Contractor shall follow good data management principals to ensure the proper identification, definition, preparation, control, archiving, and disposition of data required to execute this contract. GEIA-859, Data Management, shall be used as guide.

ID : SOWC-4210

## 2.3.3.1 Logistics Support Analysis and Logistics Product Data Tasks

The Contractor shall:

1) Perform LSA to enable the development of LPD to support LSA Operations and Maintenance planning and the deployment of the JLTV FoV and

**Name of Offeror or Contractor:**

Support Equipment.

- 2) Utilize the most current version of the PowerLOG-J database application to maintain and update LPD.
- 3) Make available to the Government LPD exported from the PowerLOG-J database.
- 4) Ensure LPD is available to develop, validate and deliver logistics support packages for JLTV FoV at the time of its scheduled use for testing, training, demonstrations, evaluations or fielding as required by this contract.
- 5) Develop a Government-approved plan to manage the development and delivery of LPD during the contract period and include the LPD delivery milestones on the IPS Master Schedule.
- 6) Analyze the data resulting from testing, manufacturing processes, quality assurance, Logistics Demonstration, and any other evaluations of the JLTV FoV.
- 7) Update LPD within the PowerLOG-J database to ensure LPD accurately reflects the results and findings of these activities. (C004 CDRL SOWC 4210, Logistics Product Data) (C005 CDRL SOWC 4210, Logistics Product Data plan)

ID : SOWC-4211

**2.3.3.2 Level of Repair Analysis**

The Contractor shall develop Level of Repair Analysis (LORA) using the latest version of the Computerized Optimization Model for Predicting and Analyzing Support Structures (COMPASS). The Contractor shall continue to conduct a Level of Repair Analysis (LORA) employing industry best practices and including all system-level repairs, and all subsystem, assembly, and subassembly level candidates, including kits for analysis. The Contractor shall incorporate the Service Components maintenance philosophies, capabilities, and respective Military Occupational Specialty (MOS) skill set(s). All associated LORA LPD shall be input, maintained and updated in the PowerLOG-J application. The LORA Report shall include all COMPASS input and output data files to include COMPASS ACCESS database tables used in the assessment. (C006 CDRL SOWC 4211, Level of Repair Analysis Report)

ID : SOWC-4212

**2.3.3.3 Maintenance Task Analysis**

The Contractor shall perform Maintenance Task Analysis (MTA) on the JLTV FoV IAW TA-STD-0017 Activity 12. MTA shall encompass all operator, maintainer, and support personnel tasks as identified by LORA, Reliability Centered Maintenance (RCM) Analysis, Failure Modes Effects and Critically Analysis (FMECA), Mission Task Analysis, and other similar analyses. MTA shall be performed on the approved Product Baseline and shall reflect the results of the latest RAM, safety, health hazards, and human factors engineering analyses. The Contractor shall update the MTA to reflect changes to the product baseline and the results and outcomes from testing, training, quality, manufacturing, Log Demo, and other JLTV FoV evaluations conducted throughout the contract period of performance. All Logistics Product Data (LPD) developed from the MTA effort will be input, maintained, and updated in the PowerLOG-J system.

In performance of the MTA, the Contractor shall provide the following LPD:

- (a) All LPD identified in TA-STD-0017 Activity 12 except activities 12.5 and 12.6.
- (b) Sequential narrative instructions and procedures for all tasks below depot level maintenance including maintenance source data for Technical Manuals (TMs) and Interactive Electronic Technical Manuals (IETMs).
- (c) Support requirements for performing each task. These shall include Military Occupational Specialty (MOS), skill levels, tools, support equipment, Automatic Test Equipment (ATE), Test Program Sets (TPS), and repair parts.

ID : SOWC-4213

**2.3.3.4 Reliability Centered Maintenance Program**

The Contractor shall build upon the JLTV FoV Reliability Centered Maintenance (RCM) program from the JLTV EMD phase (Attachment 0081 SOWC 4213, JLTV EMD RCM Report) to update RCM Analysis to reflect the LRIP JLTV FoV Product Baseline. The Contractor's RCM Program shall be compliant with SAE JA-1011 and SAE JA-1012. RCM analysis shall be conducted and documented IAW SAE JA-1011 section 5 and its associated sub-sections. The RCM analysis shall be conducted at the same level of detail that the JLTV FoV will be maintained as agreed upon by the Government. Results of the RCM analysis will provide the evidence of need for all recommended PMCS tasks. The Contractor shall utilize the results of LRIP testing and Logistics Demonstrations to validate RCM analysis data and shall update. The Contractor shall utilize PowerLOG-J to input, maintain, and update all preventative and corrective maintenance task and reliability related Logistics Product Data (LPD) resulting from RCM analysis of the JLTV FoV, and shall provide all supporting documentation (information worksheets and decision worksheets) resulting from the RCM analysis when submitting RCM Reports. (C007 CDRL SOWC 4213, Reliability Centered Maintenance Report)

ID : SOWC-5278

**2.3.3.4.1 Reliability Centered Maintenance Program Review**

The Contractor shall prepare, host and conduct a Preventive Maintenance Checks and Services (PMCS) review meeting at or near the Contractor site NLT 60 prior to the start of RAM testing and again 120 days after the start of RAM testing. The purpose of the meeting is to review the Contractors Operators and Maintenance PMCS schedule for the JLTV FoV to determine if the task(s):

- 1) are arranged in an efficient manner,
- 2) are assigned to the appropriate maintenance level,
- 3) intervals can be extended,
- 4) can be changed or eliminated.

The Contractor shall ensure representatives from Engineering, Test, and Logistics are involved in this effort. The first meeting is anticipated to be a two (2) day event and the second meeting a 1 day event. The results of the first meeting will establish a baseline PMCS that will be evaluated in test. The second meeting is intended to identify and incorporate recommended changes coming from test

**Name of Offeror or Contractor:**

that will be used to re-baseline the PMCS and allow time to be further evaluated in the test program. The Contractor shall provide Read Ahead Package and Agenda (reference A001 SOWC 34, Read Ahead and Agenda) and the results of these reviews will be documented in the meeting minutes (reference A002 CDRL SOW 36, Minutes).

ID : SOWC-4214

2.3.3.5 Spares Acquisition Integrated with Production Planning

The Contractor shall develop an JLTV Spares Acquisition Integrated with Production (SAIP) strategy to address the Contractor's approach to managing the JLTV FoV SAIP program. The Contractor shall brief its SAIP plan at the first Logistic IPT meeting following the SOWM and include the SAIP plan in the minutes (reference A002 CDRL SOWC 36, Minutes) of the Logistic IPT meeting.

ID : SOWC-4215

2.3.3.5.1 SAIP Initial Spares List

The Contractor shall develop a recommended list of JLTV FoV support items that will be considered for concurrent procurement with the LRIP JLTV FoVs. The Contractor shall update the recommended list of JLTV FoV support items quarterly and updates will be based on the number of vehicles fielded in the year following production cut-in of any change. (C008 CDRL SOWC 4215, SAIP Initial Spares)

ID : SOWC-4216

2.3.3.5.2 Authorized Stockage List

The Contractor shall provide an initial recommended ASL for the JLTV FoV. This list shall include prices and quantities for each support item. The Government will review and approve the list. The Contractor shall maintain the list of items approved by the Government. The list shall provide a recommended quantity based on supporting 25, 50, and 100 vehicles for 60 days. (C009 CDRL SOWC 4216, Authorized Stockage List)

ID : SOWC-4217

2.3.3.6 Reserved

ID : SOWC-4218

2.3.3.7 Basic Issue items, Components of the End Item and Additional Authorized List

The Contractor shall identify the Basic Issue Items (BII), Additional Authorized List (AAL) and Components of the End Item (COEI) required to support the JLTV FoV. Identified items will be annotated as such in the PowerLOG-J system (reference C004 CDRL SOWC 4210, Logistics Product Data).

ID : SOWC-4219

2.3.3.8 System Support Package Components Lists

The Contractor shall deliver a System Support Package (SSP) to each test site no later than 30 days prior to any Pre TRR. The Contractor shall prepare and deliver a System Support Package Content List (SSPCL). Each package shall consist of the items listed on the Contractor-developed and Government-approved SSPCL. The Contractor shall be responsible for performing all maintenance and controlling the on-site SSP during all testing and training events. Should any testing or training event be interrupted because a particular support item is unavailable, to the extent the part is available within the SSP, the Contractor shall provide that item within 24 hours of being notified. In the event the SSP is deficient, the Contractor shall remedy the deficiency within 24 hours for OT SSPs and 48 hours for DT SSPs. The Contractor shall replenish the SSP throughout the duration of the contract. (C010 CDRL SOWC 4340, SSPCL)

ID : SOWC-4220

2.3.3.9 Failure Modes Effects and Critically Analysis

The Contractor shall perform Failure Modes Effects and Critically analysis (FMECA) on the product baseline(s) for the JLTV FoV. The FMECA shall be IAW Attachment 0036 SOWC 4220, FMECA Requirements), performing tasks 101, 102, and 103, using the "Hardware Approach." The Contractor shall develop the FMECA from the DFMEA to the indenture level that meets the maintenance strategies of the military services, or as determined by the Government at the SOWM. All FMECA findings shall be used to develop Technical Manuals and Provisioning data. All FMECA LPD shall conform to GEIA-STD-0007 and shall be input, maintained, and updated in the PowerLOG-J system (reference C004 CDRL SOWC 4210, Logistics Product Data).

ID : SOWC-4221

2.3.4 Technical Publications

ID : SOWC-4222

2.3.4.1 Copyright Release

When the Contractor uses commercial data which covers a Subcontractor's components or portions thereof, and the Subcontractor's data contains copyright material, the Contractor shall be responsible for obtaining a copyright release from the Subcontractor and furnishing such release to the Government. The Contractor shall provide a copyright release letter. (C011 CDRL SOWC 4222, Copyright Release)

ID : SOWC-4223

2.3.4.2 Technical Publications Program Objectives

JLTV FoV Technical Publications Program objective is to develop JLTV FoV publications to support the JLTV FoV. The Contractor shall

**Name of Offeror or Contractor:**

develop technical publications for Operator, Field and National Maintenance Work Requirement (NMWR) level tasks IAW AR 25-30 (reference SOWC 4233, Technical Publications). Content for technical publications shall be based upon the results of the Maintenance Task Analysis and associated support Logistics Product Data (LPD) contained within PowerLOG-J (reference C004 CDRL SOWC 4210, Logistics Product Data), and shall support the 2 Level Maintenance standard. These publications can be used alone or in conjunction with other publications developed by Contractor.

The Contractor shall develop, validate and deliver JLTV FoV technical publications to support Testing, Log Demo, Verifications and Material Release. The Contractor shall ensure that all technical publications (IETMs, TMs, TBs) delivered match the configuration of the JLTV FoV. Technical publications shall be developed using additional military standards/policies to be included in the Technical Publications Guidance conference. It is the governments expectation that the entire contents of all Technical Publications will be delivered to the government with Unlimited Rights, per DFARS 252.227-7013(b)(1)(v); if the contractor feels differently, the contractor is to be prepared to discuss at the Technical Publications Guidance conference any portions of the publications that it proposes will not come to the government with Unlimited Rights. The Government reserves the final right to direct the Contractor to place any restricted rights data in a separable annex to the main publication.

The following technical publications shall be developed:

a) Operator Manual. The Contractor shall develop a JLTV FoV Operator Manual (-10) using the content from the attached JLTV FoV Operator Manual (Attachment 0041 SOWC 4223.6, JLTV FoV Operator Manual (New)). The Operator Manual shall incorporate changes to reflect the product baselines for the JLTV FoV and all associated kits and support items, new or updated tasks as determined in the Training Task Data/Learning Analysis Report, and any associated Logistics Product Data (LPD) IAW MIL-STD-40051-2B, and Content Selection Matrix - TABLE A-II Operators and Combined Operators/Maintenance Requirements Matrix (-10) (Attachment 0037 SOWC-4223.1 TABLE A-II (Operator Matrix)).

(b) Hand Receipt. The Contractor shall develop a Hand Receipt (-10-HR) containing all items to be accounted for on board platform. The Hand Receipt shall be prepared IAW MIL-PRF-32436.

(c) Interactive Electronic Technical Manuals (IETM). The Contractor shall develop IETMs (-23&P) IAW MIL-STD-40051-1B, Attachment 0038 SOWC-4223.2 TABLE A-XVII and Attachment 0039 SOWC-4223.3 TABLE A-XXI. Content for IETMs shall be based upon the results of the Maintenance Task Analysis (MTA) and associated support item's Logistics Product Data (LPD) contained within PowerLOG-J (LPD). IETM content shall be mirrored in PowerLOG-J, within the appropriate associated record fields, to support and allow for quick updates to IETMs based upon changes to LPD. The Contractor shall ensure IETMs are compatible with Electronic Maintenance System Next-Generation (EMS NG) Viewer software and capable of being viewed on a standalone laptop computer with EMS NG loaded. IETMs must also be useable on the Army Maintenance Support Device (MSD) V3 and Marine Corps VADS (latest version) along with the EMS NG Autonomous Diagnostic Manager (ADM) software for interactive diagnostics. The Contractor shall obtain EMS NG software required for the development, and submission of software problem tickets using the following link: <https://oneil.service-now.com/ems/>.

(d) Armor Manual. The Contractor shall develop Armor TM (-13&P) IAW MIL-STD-40051-2B or latest version, and Content Selection Matrix - TABLE A-II Operators and Combined Operators/Maintenance Requirements Matrix (-13/-13&P) (Attachment 0040 SOWC 4223.4, TABLE A-II), Content for the Armor TMs shall be based upon the results of the Maintenance Task Analysis and associated support item's Logistics Product Data (LPD) contained within PowerLOG-J. Armor TM content shall be mirrored in PowerLOG-J, within the appropriate associated record fields, to support and allow for quick updates to TMs based upon changes to LPD.

(e) Schematic Technical Bulletin. The Contractor shall develop a Schematic Technical Bulletin (TB) (-23) containing all wiring and schematic diagrams. The TB shall be prepared IAW MIL-STD-38784. Schematic TB content shall be mirrored in PowerLOG-J, within the appropriate associated record fields, to support and allow for quick updates to TBs based upon changes to LPD.

(f) National Maintenance Work Requirements (NMWRs). The Contractor shall develop stand alone component specific technical manuals to support Sustainment components as determined by the Level of Repair Analysis, (LORA) and Maintenance Task Analysis (MTA) using Logistics Product Data maintained in the PowerLOG-J system (reference C004 CDRL SOWC 4210, LPD).

ID : SOWC-4227  
2.3.4.3 Reserved

ID : SOWC-4228  
2.3.4.4 Technical Manual Book Plan

The Contractor shall develop a Book Plan that provides the Government program manager with a detailed overview of the proposed scope of the manual in compliance with the contract. The plan is to be submitted to the Government for review and acceptance prior to the development of the TMs IAW C012 CDRL SOWC 4228, TM Book Plan. The plan shall be developed in Microsoft Word or Government approved software and shall list all work packages included in each publication. This plan shall clearly define the intended purpose of each IETM, TM, and TB, delineating the scope of each publication and explaining the interfaces and overlaps between or among the publications. (C012 CDRL SOWC 4228, TM Book Plan)

ID : SOWC-4229

**Name of Offeror or Contractor:**

## 2.3.4.5 Technical Publications Interactive Electronic Technical Manual Content Plan

The Contractor shall develop Interactive Electronic Technical Manual (IETM) Content Plan that provides the Government with a detailed overview of the proposed scope and functionality of the IETM in compliance with the contract. The plan is to be submitted to the Government for review and acceptance prior to the development of the IETM. (C013 CDRL SOWC 4229, Technical Publications Interactive Electronic Technical Manual (IETM) Content Plan)

ID : SOWC-4230

## 2.3.4.6 Technical Publications Schedule and Status Report

The Contractor shall provide a Technical Publications Schedule and Status Report to the Government to permit program managers to determine if TMs are being prepared and delivered IAW contract requirements. This document shall include critical tasks involved with all publications development, for example: key publication milestones, such as validations, IPRs, verifications, PTM reviews, publication deliveries. This Report shall also be included on the JLTV IPS Master schedule (reference C002 CDRL SOWC 4205, Integrated Master Schedule). Comments and action items from TM reviews shall be summarized in the Technical Publications Schedule and Status Report. Action Items shall be addressed and resolutions presented during the next TM review. (C014 CDRL SOWC 4230, Technical Publications Schedule and Status Report)

ID : SOWC-4231

## 2.3.4.7 Electronic Maintenance System (EMS) Next Generation (NG) Software Report

The Contractor shall provide the Government with a Technical Publications Software and Status Report. This document shall include a list of both critical tasks and errors occurring in the development of the technical publications, including tracking of errors, status of error reports, communications with Subcontractor(s). The report shall also include embedded diagnostics that are subject to software development and test, not IETM specifications. (C015 CDRL SOWC 4231, Electronic Maintenance System (EMS) Next Generation (NG) Software Report)

ID : SOWC-4232

## 2.3.4.8 Technical Publications Cost Report

The Contractor shall develop a Technical Publications Cost Report that provides the Government with the necessary budget information that program managers can use for planning, evaluation, and future TM development cost estimating. (C016 CDRL SOWC 4232, Technical Publications Cost Report)

ID : SOWC-4233

## 2.3.4.9 Technical Publications

The Contractor shall provide Technical Publication deliveries for each manual developed under (SOWC 4233) for Government review. These shall be in the form of a Preliminary Technical Manual (PTM) or a Final Reproducible Copy (FRC). These shall include resolution of all comments and recommendations made as a result of all testing, Government reviews, Contractor validation, Government verification and Log Demo. The Contractor shall provide additional updates and reviews based on results of Government's PTM/FRC review(s) at no additional cost to the Government. (C017 CDRL SOWC 4233, Technical Publications)

a). The Contractor shall provide a Preliminary Technical Manual 1 (PTM1). The PTM1 delivery shall be provided for Government review 30 days prior to Log Demo/verification and include the results of validation.

b) The Contractor shall provide a Preliminary Technical Manual 2 (PTM2). The PTM2 delivery shall be provided for Government review 30 days after Logistics Demonstration (LD) verification events and include the results of these events.

c) Final Reproducible Copy (FRC). For FRC delivery, the Contractor shall provide complete publication(s) that shall be representative of the final product. Contents must be clearly legible with content and format as for final. The Contractor shall deliver incremental and accumulative Technical Publications review packages for each JLTV FoV publication. The Government will notify the Contractor when to submit the final delivery that shall include a complete Electronic Technical Manual (ETM) in searchable and editable Portable Document Format (PDF) with fonts embedded, one (1) set of XML-coded source files, one (1) set of electronic running sheets, and digital illustration files. CD-ROMs will be delivered as follows: one (1) CD-ROM containing PDF file and one (1) CD-ROM containing source data (XML-coded files), illustration files for the TM.

ID : SOWC-4234

## 2.3.4.10 Technical Publications Quality Assurance Plan

All delivered TM/IETM information shall be complete in content, technically accurate, and useable by target audience. The TM/IETM shall match the vehicle configuration as defined by the IPS configuration freeze. To meet these requirements, the Contractor shall develop and use a QA Plan that guarantees:

(1) Periodic QA reviews of TM content by persons different from those preparing the TM.

(2) Maintenance of QA records detailing the findings of those reviews.

(3) 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 throughout the duration of the programs efforts. The contractor shall make appropriate corrections and resubmit to the Government within 30 days.

(C018 CDRL SOWC 4234, Technical Publications Quality Assurance Plan)

ID : SOWC-4235

## 2.3.4.11 Technical Publications Validation Plan

The Contractor shall provide to the Government a Technical Publications validation plan. The Technical Publications Validation Plan defines the Contractor's methods, procedures, controls, and resources that shall be used to accomplish validation of the TM(s) being

**Name of Offeror or Contractor:**

procured and developed. The Technical Publications validation plan is submitted to the Government for review and acceptance prior to development of the TM(s). The Contractor shall conduct validation of operator and maintenance tasks. The TMs shall be validated for completeness, accuracy, clarity, usability, and adequacy of content against the JLTV FoV. The Contractor shall invite the Government to observe validation events. (C019 CDRL SOWC 4235, Technical Publications Validation Plan)

ID : SOWC-4236

**2.3.4.12 Validation Software and Hardware**

The Contractor shall provide all personnel, equipment, tools, special tools, test equipment, mandatory replacement parts and utilize the latest version of released EMS NG software to support validation of LRIP configuration JLTV FoV for field and Sustainment level publication procedures. The Contractor shall validate IETMs are compatible with EMS NG Viewer software and capable of being viewed on a standalone laptop computer with EMS NG loaded. IETMs must also be validated on the Maintenance Support Device (MSD) V3, Drivers Side Display Unit (DSDU) and Vehicle Automated Diagnostic System (VADS) along with the EMS NG Autonomous Diagnostic Manager (ADM) software for interactive diagnostics. The Contractor shall obtain EMS NG software required for the development, and submission of software problem tickets using the following link: <https://oneil.service-now.com/ems/>

ID : SOWC-4237

**2.3.4.13 National Maintenance Work Requirement (NMWR) Delivery**

The Contractor shall develop Preliminary National Maintenance Work Requirement (NMWR) procedures including Repair Parts and Special Tools List (RPSTL), containing all procedures and tasks required to perform Sustainment level maintenance tasks as identified in the Maintenance Task Analysis (MTA) and associated support item's Logistics Product Data (LPD) contained within PowerLOG-J. NMWR content shall be mirrored in PowerLOG-J, within the appropriate associated record fields, to support and allow for quick updates to NMWRs based upon changes to LPD. NMWRs shall be developed IAW MIL-STD 40051-2B and NMWR Content Selection Matrix - TABLE A-VII NMWR Requirements Matrix (Attachment 0042 DMWR\_NMWR Requirements Matrix) and be compatible with the EMS-NG software provided to the Contractor as GFE. The Contractor shall deliver the Sustainment Level Preliminary NMWRs within 60 days after validation. (C020 CDRL SOWC 4237, NMWR Delivery)

ID : SOWC-4238

**2.3.4.14 Technical Publications Validation Certificate and Records**

The Contractor shall provide a Validation Certificate for each Technical Publication. The Certificate is the Contractor's evidence that the Technical Publication products are accurate and complete. The Contractor shall also provide an indicator when some portion of the validation could not be accomplished. The Contractor shall maintain, and provide all validation records. All validation records will be accessible at verifications and Log Demo's. (C021 CDRL SOWC 4238, Technical Publications Validation Certificate)

ID : SOWC-4239

**2.3.4.15 Verification Software and Hardware**

The Contractor shall provide all personnel, equipment, tools, special tools, test equipment, mandatory replacement parts and utilize latest version EMS NG software to support verification of production representative JLTV FoV for field level publication procedures. The Contractor shall validate IETMs are compatible with EMS NG Viewer software and capable of being viewed on a standalone laptop computer with EMS NG loaded. IETMs must also be verified on the Maintenance Support Device (MSD) V3 along with the EMS NG Autonomous Diagnostic Manager (ADM) software for interactive diagnostics. The Government will provide Contractor with GFE equipment to test software usability and functionality.

ID : SOWC-4240

**2.3.4.16 Verification**

The Contractor shall provide the Government with validated Technical Publications to use as the baseline for Government verification. The verification shall be conducted at the Contractor's facility with production representative JLTV FoV. PTM(s) containing operator and field level maintenance tasks shall be re-validated when changes result from testing and approved ECPs or in cases where the Contractor failed to validate. The Contractor shall provide Technical Publication update services during the verification to incorporate changes in real time and to provide onsite resolution of any discrepancies found during the verification.

ID : SOWC-4241

**2.3.4.17 Content Management System**

The Contractor shall provide all technical publication content source files including XML, graphics, multimedia files, and EMS NG specific files. The source files shall be delivered to the Government for use in the TACOMs EMS NG Content Management System (CMS) for review, publishing, and retention. Content and LPD shall be mirrored in PowerLOG-J, within the appropriate associated record fields, to support and allow for updates to Technical Publications based upon changes to LPD. (C022 CDRL SOWC 4241, Content Management System)

ID : SOWC-4242

**2.3.4.18 Components Warranty**

If any components have a warranty, the Contractor shall include the specific warranty information in the Operators (-10) manual. This information shall include a listing of items under warranty, the terms of the warranty and procedures for pursuing a warranty (ref: Attachment 0037 SOWC-4223.1 TABLE A-II (Operator Matrix)).

ID : SOWC-4243

**2.3.5 Logistics Demonstration**

**Name of Offeror or Contractor:**

ID : SOWC-4244

## 2.3.5.1 Logistics Demonstration Objectives

Logistics Demonstration (Log Demo) shall evaluate the following: 1) The supportability engineered and established for the system; 2) Human factors engineering aspects and MANPRINT related to operator and maintainer tasks; 3) The adequacy of maintenance planning for the system (such as maintenance concept, task allocation, maintenance procedures [to include repair procedures], troubleshooting procedures, Training Support Package [TSP], and peculiar support equipment); 4) Training and training devices; 5) Technical publications; 6) Common tools and special tools; 7) Spares and repair parts list; 8) The TMDE, including the embedded diagnostics, test program set, and diagnostic procedures in the technical manual; 9) The Logistics Management Information (LPD) data, including updates.

ID : SOWC-4245

## 2.3.5.2 Log Demo Planning

The Contractor shall provide all necessary facilities, parts, tools and other items necessary to conduct a Log Demo for a period not to exceed 90 days. The Government will provide the Log Demo Plan no earlier than 180 days prior to the Log Demo.

The contractor shall:

- a. provide full time on-site support during the logistics demonstration. An experienced JLTV Engineer representative shall be present to respond to issues with access to field services and test personnel as required.
- b. have the contractor's provisioning and training representative on site during logistics demonstration to ensure RPSTL and training issues are identified and resolved.
- c. have a contractor technical writer dedicated for each work station. This technical writer shall be responsible for making real time corrections as appropriate and documenting complete results of the work package demonstration.
- d. provide large monitors (32+ inches) at each work station for in shop, bay, and desktop reviews. The display is intended to provide a means for the log demo team to view the procedure being performed by the mechanic. The screens shall be connected to the Maintenance Support Device. An additional mouse shall also be available with the monitor to allow other team members to control what is being viewed on the screen.
- e. based on SSP requirements, prepare a checklist to track and assess the preparedness of the logistics demonstration. The checklist shall address all support requirements and be briefed and displayed at Logistics IPRs. This list shall provide availability status and dates for each SSP requirements. Issues that would cause delay or problems in performance of the logistics demonstration shall be clearly identified as follows: Green (on-hand and ready), Amber (not on-hand and item due-in by required date), and Red (not available by required date). Items coded Red shall be intensively managed to mitigate risk.
- f. consolidate, package, and mark all Mandatory Replacement Parts (MRP) by task, for ready access during the Log Demo.
- g. have back-up documentation for each work package organized and readily available during the Log Demo.
- h. develop and maintain an automated record keeping database to track the results and status of the Log Demo activity and provide daily reports. A copy of the complete database shall be provided with the Log Demo Report (reference C023 CDRL SOWC 4246, Log Demo Report).
- i. conduct a Log Demo readiness review with the Government at the event site six weeks prior to start of the logistics demonstration.
- j. provide facilities and equipment that minimizes distraction and offers a safe, comfortable, and relatively clean work environment.
- k. provide for a Government conference room near the worksite with multiple phone and internet access points, excluding WI-FI.

ID : SOWC-4246

## 2.3.5.3 Log Demo Report

The Contractor shall prepare and deliver a report that records the results of each Log Demo including evaluation of operations and maintenance procedures, support items, manpower and skill requirements, maintenance allocation, and maintenance times. The Contractor shall update all logistics products deliverable under this contract to include LPD, provisioning documentation, technical manuals, training documentation, based on the results of the Log Demo. Copies of these reports shall be delivered to the Government. Log Demo updates shall be incorporated into the respective publication deliverables and PowerLog-J. (C023 CDRL SOWC 4246, Log Demo Report)

ID : SOWC-4247

## 2.3.6 Provisioning Program

ID : SOWC-4250

## 2.3.6.1 Provisioning Plan and Analysis

The Contractor shall develop a Provisioning Plan that provides the Government with a detailed overview of the provisioning efforts. The

**Name of Offeror or Contractor:**

plan shall address the Contractors provisioning process and organization, to include any Subcontractors. (C024 CDRL SOWC 4250, Provisioning Plan)

ID : SOWC-4251

**2.3.6.2 Provisioning Parts List**

The Contractor shall develop, maintain, and provide Provisioning Parts Lists (PPL) IAW Attachment 0043 SOWC 4251.1, Provisioning Requirements Statement, and Attachment 0044 SOWC 4251.2 Data Requirements Form for Acquisition Requirement Package (ARP), and DID DI-SESS-81715 (except for 2. Format. Format will be GEIA-STD-0007).

The Contractor shall develop the initial PPL Logistics Product Data (LPD) that reflects the JLTV FoV and associated support equipment's product baselines. The PPL shall include all repairable and consumable 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 and equipment. Separate Provisioning Contract Control Numbers (PCCNs) shall be provided for each system/item. The PPL shall be structured in a top-down breakdown disassembly sequence. Indenture Codes shall be in Alpha Character format. The Provisioning Line Item Sequence Number(s) (PLISN) range of a PPL shall be grouped in ranges by Functional Group Coding (FGC). For example, FGC 01 will have a PLISN Range of AAAA thru A999, FGC 02 will have a PLISN Range of BAAA thru B999, FGC 03 will have a PLISN Range of CAAA thru C999. The Contractor shall make the quantity per assembly, and the quantities per end item, the same to ensure compatibility with the US Army Logistics Modernization Program (LMP). The Contractor shall ensure the ability to generate a separate PPL for each category of JLTV FoV platform. The Contractor shall input, maintain, and update all PPL LPD in the PowerLOG-J system and ensure all LPD is available for the Government to output the PPL via the PowerLOG-J LSA 151 report and the LSA 036 report without errors. The Contractor shall ensure that LPD are compatible with LMP and can be transferred electronically to the Government for successful updating of the PBOM.

ID : SOWC-4252

**2.3.6.3 Engineering Data For Provisioning**

Engineering Data For Provisioning (EDFP) is technical and engineering Logistics Product Data (LPD) which provides definitive identification of dimensional, materiel, mechanical, electrical, or other physical characteristics, locations, and functions of the item. EDFP is used to describe parts/equipment and consists of data such as specifications, standards, drawings, photographs, sketches and descriptions. EDFP includes assembly and general arrangement drawings, schematic drawings, schematic diagrams, and wiring and cable diagrams necessary to indicate the physical characteristics, locations and/or functions of the item. EDFP must be in the English language. Foreign language EDFP not translated into the English language will not be accepted by the Government. EDFP shall be developed IAW DI-SESS-81874 and shall provide LPD for the following:

- 1 - Technical Identification of items for maintenance support considerations
- 2 - Preparation of item identification for the purpose of assigning National Stock Numbers (NSNs)
- 3 - Review for item entry control
- 4 - Standardization
- 5 - Review for potential interchangeability and substitutability
- 6 - Item management coding
- 7 - Preparation of allowance/issue lists
- 8 - Source, Maintenance, and Recoverability (SMR) code verification

The Contractor shall input, maintain, and update EDFP LPD for the JLTV FoV and identified support equipment in the PowerLOG-J system Under this effort the Contractor shall:

- 1 - Deliver EDFP concurrently with the Provisioning Parts List (PPL) to document the Product Baseline JLTV FoV and all associated kits and identified support equipment.
- 2 - Maintain electronic access to Military and Federal Specifications and Standards.
- 3 - Submit EDFP for all items identified with a P in the first position of the Source Maintenance and Recoverability (SMR) code which do not have National Stock Numbers (NSNs) assigned.
- 4 - Identify, and input into PowerLOG-J, all cataloging information associated with JLTV FoV items that do have NSNs assigned.
- 5 - Cite all approved vendor's Commercial and Government Entity (CAGE) codes. The CAGE codes shall be typed, stamped, or legibly written with an authorized signature and date on drawings. Drawings for components with other than unlimited rights to the Government can be envelope drawings or list drawings. All drawings shall be input, updated and maintained in the PowerLOG-J system. The Contractor shall develop a Provisioning Plan that provides the Government with a detailed overview of the proposed scope of the Provisioning efforts. The plan shall address the Contractors provisioning process and organization, to include Subcontractors (if applicable).
- 6 - For items not supported by Government recognized specifications or standards, deliver EDFP in the following order of precedence:
  - a) Technical data equivalent to approved product drawings as defined under MIL-DTL-31000C
  - b) Technical data equivalent to in-process/incomplete product drawings as defined under MIL-DTL-31000C;
  - c) Commercial drawings, commercial manuals, catalogs, catalog descriptions, sketches or photographs with brief descriptions of dimensional, materiel, mechanical, electrical, or other descriptive characteristics.

ID : SOWC-4253

**2.3.6.4 Cataloging Input**

The Contractor shall update the LPD to reflect the results of cataloging actions, including changes to item nomenclature. Inconsistencies in nomenclature between the drawings and draft Technical Publications must be resolved in LPD and the Technical Publications before final Technical Publications are delivered to the Government.

**Name of Offeror or Contractor:**

ID : SOWC-4254

## 2.3.6.5 Provisioning and Other Pre-procurement Screening Data

The Contractor shall conduct a pre-procurement screening for all items selected as repair parts and provide screening results to the Government. The Contractor shall use Government or industry association, specifications, drawings, or standards numbers as the preferred reference number (e.g., Federal (FED), Military (MIL), Joint Army and Navy (JAN), Air Force and Navy (AN), National Electrical Manufacturers Association (NEMA), Society of Automotive Engineers (SAE)). The Contractor shall perform this screening to select valid part numbers for the PBOM. All vendor source information identified on the drawing will be screened by the Contractor. The Contractor shall update the Contractors provisioning data files with current part numbers that have NSNs as results of pre-procurement screening for standardization and component selection. (C025 CDRL SOWC 4254, Pre-Procurement Screening Data)

ID : SOWC-4255

## 2.3.6.6 Provisioning Bill of Material Feedback

The Contractor shall maintain and continuously update the JLTV FoV LPD database using the Provisioning Technical Documentation (PTD) Report provided by the Government quarterly.

ID : SOWC-4256

## 2.3.6.7 Provisioning Quality Acceptance Standards

The Contractor shall adhere to the most recent version of quality standards outlined in GEIA-STD-0007, GEIA-HB-0007, and TA-HB-0007. During the term of the contract, changes may occur that are due to LMP or process requirements. The Government will notify the Contractor of these provisioning changes. The Contractor shall make appropriate provisioning changes identified by the Government in the immediately preceding PowerLOG-J update.

ID : SOWC-4257

## 2.3.6.8 Provisioning Technical Documentation Guidance

ID : SOWC-4258

## 2.3.6.8.1 Next Higher Assembly Provisioning List Item Sequence Numbers and Overhaul Quantities

The Contractor shall enter within PowerLOG-J, the Overhaul Quantities (OVHL QTY) for each item, IAW the most recent version of the GEIA-STD-0007:

- (a) Identify the immediate Next Higher Assembly (NHA) Provisioning List Item Sequence Number (PLISN). Enter an OVHL QTY.
- (b) Using the top down break down structure, identify all subsequent assemblies preceding the down part. Enter NHA PLISN and OVHL QTY.
- (c) Identify the model record PLISN(s) as a NHA PLISN and enter an OVHL QTY.

ID : SOWC-4259

## 2.3.6.8.2 Maintenance Replacement Rates

The Contractor shall use results from the RAM program to determine the Maintenance Replacement Rates I and II (or Failure Factors) and annotate these within PowerLOG-J. These rates may vary by variant and mission package configuration. The Maintenance Replacement Rate (MRR) shall be a consolidation of all known RAM information. The Contractor shall develop rationale and methodology for determining MRRs, IAW the most recent versions GEIA-STD-0007, GEIA-HB-0007, and TA-HB-0007 using the following data:

- (a) Engineering Data
- (b) Warranty Data
- (c) Testing and Developmental Documentation
- (d) Historical Data on an analogous piece of equipment. When using historical data, the MRR II will be, at least 2.5 times greater than that of MRR I.

ID : SOWC-4260

## 2.3.6.8.3 Essentiality Coding and Line Replaceable Unit

The Contractor shall recommend the Essentiality Code (EC) for spare or repair items IAW AR 700-18 section 4-4. Items deemed as having an EC value of "1" shall automatically be considered a Line Replaceable Unit (LRU) and shall be reflected as such in all affected Logistic Product Data (LPD). EC LPD, and any affected LRU determination shall be input, maintained, and updated in the PowerLOG-J system.

ID : SOWC-4261

## 2.3.6.8.4 Provisioning Parts List Pricing Data

The Contractor shall obtain and input Logistics Product Data (LPD) of the actual or estimated realistic pricing for all items identified in the Provisioning Parts Lists (PPL) into the PowerLOG-J system. Determination of pricing data shall be in the following order of precedence:

- a) OEM pricing
- b) Estimated pricing from a like item

ID : SOWC-4262

## 2.3.6.9 Provisioning Reports and Lists

The Contractor shall ensure that Logistics Product Data (LPD) for all systems, subsystems, parts, components, and tools that comprise the JLTV FoV and support equipment are correctly identified and updated to allow the generation of the following sub-reports without error from within the PowerLOG-J LSA-036 report:

- a) Provisioning Parts List (PPL)

**Name of Offeror or Contractor:**

- b) Long Lead Time Items List (LLTIL) with items identified IAW in section 10.3.3 of DI-IPSS-81285 with procurement times greater than 90 days.
- c) Repairable Items List (RIL) with items identified IAW section 10.3.4 of DI-IPSS-81285
- d) Tools and Test Equipment List (TTEL) with items identified IAW section 10.3.6 of DI-IPSS-81285. Additionally, the list shall identify those required tools included in the Army Standard Automotive Tool Sets and corresponding Marine Corps tool sets.
- e) Common and Bulk Items List (CBIL) with items identified IAW sections 10.3.7 and 10.3.7.2 of DI-IPSS-81285
- f) System Configuration Provisioning List with items identified IAW sections 10.3.10 and 10.3.10.1 of DI-IPSS-81285

The Contractor shall update LPD to reflect the results of Provisioning Conferences, USG reviews, or other scheduled evaluations. The Contractor shall input, maintain and update LPD in the PowerLOG-J system

ID : SOWC-4263

**2.3.7 Packaging, Handling, Storage and Transportation**

ID : SOWC-4264

**2.3.7.1 Packaging for the JLTV FoV**

Packaging for the JLTV FoV: The Government intends to have a complete Packaging, Handling, Storage, and Transportation (PHS&T) portfolio developed for the JLTV FoV. This includes the development of packaging LPD data, Special Packaging Instructions (SPI), and Equipment Preservation Data Sheets (EPDS).

ID : SOWC-4265

**2.3.7.2 Packaging Data Development**

The Contractor shall develop 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, NMWR/DMWR candidate items, Line Replaceable Units, and any large, high cost item classified as a Special Group Item (reference SOWC 4268). Packaging shall be developed IAW MIL-STD-2073-1D. Each SMR coded "P" item shall be classified as a selective group item or special group item. The Contractor shall provide facilities, equipment, materials, and provisioned items for packaging development. The Contractor shall complete verification and provide support data with each data submittal identified below. 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.

ID : SOWC-4266

**2.3.7.3 Item Classification**

The Contractor shall classify each SMR "P" coded item as a Selective group item or a Special group item IAW MIL-STD-2073-1D, SOWC 4267, and SOWC 4268.

ID : SOWC-4267

**2.3.7.3.1 Selective Group**

Items classified as Selective group items 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 shall not exceed 84 inches. A Selective group item must not require disassembly for packaging. Reconfiguration for packaging of Selective group items is limited to folding or coiling. Items will not be classified as Selective if they are repairable, recoverable, contain hazardous material, or if assigned a shelf life. Packaging data output for Selective group items is in the form of LPD Coded Data Products (reference SOWC 4269).

ID : SOWC-4268

**2.3.7.3.2 Special Group**

Items classified as 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. Special Group items include armor kits, axles, other 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. Packaging data output for Special group items consists of Special Packaging Instructions and LPD Coded Data Products.

ID : SOWC-4269

**2.3.7.4 Logistics Product Data Coded Data Products Packaging**

The Contractor shall develop and deliver LPD packaging data for each SMR "P" coded Selective and Special group item. At the Contractors request, the Government may provide a MS ACCESS application that provides data formatting and edit features for coding of packaging LPD data products. The Contractor shall develop, maintain, and update packaging data IAW MIL-STD-2073-1D, Attachment 0045 SOWC 4269.1 Packaging Data Products, and Attachment 0046 SOWC 4269.2 Incoming Transaction Format. All associated packaging LPD shall be input, maintained and updated in the PowerLOG-J application. (C026 CDRL SOWC 4269, LPD Coded Data Products Packaging).

ID : SOWC-4270

**2.3.7.5 Special Packaging Instructions**

**Name of Offeror or Contractor:**

The Contractor shall develop a Special Packaging Instructions (SPI) for each item classified as a Special group item. Figures and narrative data shall be developed and delivered to describe the form, fit, and function of packaging in sufficient detail for production. The SPI package shall include packaging LPD coded data and packaging test reports for all special group items and the special packaging instructions. The Contractor shall ensure that all SMR "P" coded items requiring SPIs are accounted for. SPI format shall be IAW MIL-STD-2073-1D. (C027 CDRL SOWC 4270, SPI)

ID : SOWC-4271

## 2.3.7.6 Validation Testing of Packaging

The Contractor shall conduct validation testing for each item classified as a Special group item. 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 shall be limited to Test Schedule A and Test Schedule F. Climatic conditioning is not required. Each SPI submitted shall have a packaging test report including photographs. Photographs shall show the product before and after testing and that the product is undamaged. Packaging test reports shall be submitted concurrently with SPI submittal, and packaging LPD data products for the Special group items. The Contractor shall provide a Validation Test Report. (C028 CDRL SOWC 4271, Packaging Validation Test Report)

ID : SOWC-4272

## 2.3.7.7 Equipment Preservation Data Sheets

The Contractor shall develop Equipment Preservation Data Sheets (EPDS) for the JLTV FoV. The Contractor shall include requirements for disassembly procedures to meet clearance requirements for land, air, and sea shipments. The Equipment Preservation procedures shall include drive-on and drive-off capability. The Contractor shall develop packaging requirements for BII and COEI. BII shall be packed separate from COEI. HAZMAT (if applicable) shall be packaged and shipped separately IAW CFR Title 49. The 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. All associated packaging LPD shall be input, maintained and updated in the PowerLOG-J application as required. (C029 CDRL SOWC 4272, Equipment Preservation Data Sheets)

ID : SOWC-4273

## 2.3.7.7.1 Validation of EPDS

The Government will determine if all or selected portions of the Equipment Preservation Data Sheet 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. The Contractor shall notify the Government sixty (60) days prior to conduct of Contractors validation. The Government shall witness the Contractors validation. The Contractor shall provide a validation report. (C030 CDRL SOWC 4273, EPDS Validation Report)

ID : SOWC-4274

## 2.3.7.8 Long Life Reusable Containers

ID : SOWC-4275

## 2.3.7.8.1 LLRC Development

The Contractor shall search for existing reusable container designs that are suitable for the Engine, Transmission, and Transfer-Case (T-Case) via the Container Design Retrieval System (CDRS). If there are no applicable existing LLRCs, the Contractor shall fully develop LLRCs IAW SAE ARP 1967A, and Appendix A of Attachment 0047 SOWC 4275 (LLRC Design Proposal Format). All associated packaging LPD shall be input, maintained and updated in the PowerLOG-J application. (C031 CDRL SOWC 4275, Container Design Retrieval System (CDRS) Search Request)

ID : SOWC-4276

## 2.3.7.8.2 Material

The containers shall only be fabricated from steel, aluminum, or composite material. If a metallic container is developed it must have a Chemical Agent Resistant Coating (CARC) as defined in SAE ARP 1967A. The use of wood in the design and fabrication of these reusable containers is forbidden except for the container skids.

ID : SOWC-4277

## 2.3.7.8.3 Performance

The containers shall incorporate energy absorbing systems, dehumidification systems, and other special features to ensure protection of the item. The containers shall be capable of being repaired or retrofitted to prolong container service life or modified to adapt the reusable container for shipment of the items other than for which it was originally intended. Attachment 0048 SOWC 4277 (TB 9-289, Technical Bulletin for the Reconditioning of Type I and Type II Reusable Metal Containers), shall be used as a guide.

ID : SOWC-4278

## 2.3.7.8.4 Size

The container size shall be of the minimum, consistent with the size, weight, and the performance requirements of SAE ARP 1967A with the exceptions listed in Appendix A of Attachment 0047 SOWC 4275 (LLRC Design Proposal Format). The Contractor shall develop the container for multi-modal transportation including truck, rail, air, and ocean.

**Name of Offeror or Contractor:**

ID : SOWC-4279

## 2.3.7.8.5 Concept Drawing

The Government will furnish 19207 drawing numbers for container concept drawings at the Logistics IPT meeting following the results of the CDRS search. The Contractor shall use two of the furnished 19207 part numbers for creating the concept drawing for each component. One 19207 part number shall be assigned to each concept drawing. Each concept drawing shall include a Bill of Material that will identify the part number of the component being containerized and the 19207 part number assigned to the container. The Contractor shall submit a concept drawing. The Government will review and approve each concept drawing prior to prototype construction. (C032 CDRL SOWC 4279, Concept Drawing)

ID : SOWC-4280

## 2.3.7.8.6 Prototype Container and Test Plan

The Contractor shall construct a prototype container and shall submit for approval a test plan for each Government approved component IAW C033 CDRL SOWC 4280 (Prototype Container and Test Plan). Testing shall be IAW SAE ADP 1967A and Appendix A of Attachment 0047 SOWC 4275 (LLRC Design Proposal Format). (C033 CDRL SOWC 4280, Prototype Container and Test Plan)

ID : SOWC-4281

## 2.3.7.8.7 LLRC Fit-Up

The Contractor shall perform a validation by fitting the component to the container. The Contractor shall perform this validation on each container and provide a container Fit-Up Validation Report. The Contractor shall ensure the container designer is a full participant in fit-up of the containers. (C034 CDRL SOWC 4281, Container Fit-up Validation Report)

ID : SOWC-4282

## 2.3.7.8.8 LLRC Testing

The Contractor shall notify the Government sixty (60) days prior to conduct of LLRC testing for each component. The Government will be present at testing of each LLRC. If the Government is not present, the test report and TDP submission (reference SOWC 4283) will be rejected and the contractor shall reschedule testing for when the Government is available. In order to document Government attendance, the Government will provide a memorandum of attendance to the contractor at the end of testing, which shall be included as appendix A in the test report. Any test reports submitted without this memorandum will be immediately rejected by the Government.

The Contractor shall conduct LLRC testing IAW the approved test plan (reference C033 CDRL SOWC 4280, Prototype Container and Test Plan).

If the Government determines that testing is unsuccessful, subsequent testing of the container must be rescheduled. The Contractor shall notify the Government thirty (30) days prior to the rescheduled test date. The Contractor shall ensure the container designer is a full participant in testing of the containers. The Government will witness LLRC tests for each container. The Contractor shall deliver a complete test report covering the component tested. (C035 CDRL SOWC 4282, LLRC Test Report)

ID : SOWC-4283

## 2.3.7.8.9 LLRC TDPs

The Contractor shall develop and deliver a complete Production Level Technical Data Package (TDP) IAW MIL-STD-31000 for the reusable shipping and storage container upon receiving USG approval of a reusable container design and test report. The TDP shall include product drawings and associated lists in sufficient detail to provide for a competitive procurement. The Government will supply part numbers and drawing numbers for the new parts and drawings. Product drawings shall comply with ASME-Y14.100 2000 and ASME-Y14.5M 1984. Configuration management data shall comply with MIL-HDBK-61. Electronic drawing file format shall be PRT, IGES, or PDF. (C036 CDRL SOWC 4283, LLRC TDP)

ID : SOWC-4284

## 2.3.8 Training

ID : SOWC-4285

## 2.3.8.1 Training Products and Services

The Contractor shall develop and conduct JLTV training to Government personnel, Contractor personnel, Marine and Soldier operators, mechanics, welders and machinists in support of the JLTV FoV. Training support shall consist of training program management, training materials design and development, and training conduct, as described in the following paragraphs. The Contractor shall develop all training materials (reference SOWC 4298) and conduct all training courses IAW MIL-PRF-29612B, Training Data Products, unless otherwise specified. The Contractor shall use the following as guidance: MIL-HDBK-29612-2 Part 2, Instructional Systems Development (USMC and TR 350-70 series (Army)).

It is expected all Government Operators attending JLTV training will already have been trained and certified on HMMWV Expanded Capacity Vehicle's and will already been issued an OF 346 HMMWV Operator license.

The operator training shall include capabilities, functions and operation of the system; preventive and corrective maintenance procedures for the operator, terrain and obstacle driving, and self-vehicle recovery. The training shall also include and, upon completion, enable the student to operate the system, subsystems, equipment controls, and perform operator level preventive maintenance functions. The training shall emphasize hands-on instruction for operator tasks.

**Name of Offeror or Contractor:**

The maintainer training shall include capabilities, functions and operation of the system; preventive and corrective maintenance procedures; external diagnostics and other tests; performance of system checks and verification procedures; and measured performance data. The training shall also include and, upon completion, enable the student to operate the system, subsystems, and equipment controls; execute diagnostic tests with TMDE and interpret results; remove and install major components; determine if the system and subsystem is malfunctioning or not; isolate and locate malfunctions to the Line Replaceable Unit (LRU); replace defective LRUs; troubleshoot and repair system and subsystem functions, and conduct Limited Technical Inspections. The training shall emphasize hands-on instruction for maintainer tasks.

The welders and machinists training shall include armor damage inspection, welding repair, thread repair or replacement, and quality assurance testing on welding and machinist actions. The training shall emphasize hands-on instruction for sustainer tasks.

ID : SOWC-4286

**2.3.8.2 Program Training Events**

The Contractor shall develop and conduct training supporting the below program events. Training shall be based upon the task and learning requirements for the operator, maintainer and sustainer personnel.

ID : SOWC-4287

**2.3.8.2.1 RAM Testing**

The Contractor shall conduct operator and crew tester training in support of RAM testing to Government personnel at the locations indicated on the test schedule (reference SOWC 4659). The Contractor shall conduct two training events with a maximum student capacity per training event of 30 operators and 15 maintainers, at each test site indicated. The course shall include tasks associated with safety, operating vehicle systems and controls, and capabilities. The Government shall confirm the training dates at least 45 days prior to the event.

ID : SOWC-4288

**2.3.8.2.2 Logistics Demonstration**

The Contractor shall conduct operator, crew, and maintainer training to military personnel, civilian personnel and Contractor personnel in support of the Logistics Demonstration at the locations indicated by Government. The Contractor shall conduct at least two training events with a maximum student capacity per training event of 30 operators and 15 maintainers, for operator and maintainer on the JLTV FoV, at the locations selected by the Government. The training shall be developed to the demonstration tasks and events chosen by the Government. The Government shall confirm the training dates at least 45 days prior to the event.

ID : SOWC-4289

**2.3.8.2.3 Multi-Service Operational Test and Evaluation**

The Contractor shall conduct operator, crew and maintainer training to military personnel, civilian personnel, and Contractor personnel in support of Multi-Service Operational Test and Evaluation (MOT&E) at the location indicated by the Government and according to the programs schedule. The Contractor shall conduct three training events with a maximum student capacity per training event of 30 operators, and 15 maintainers, for operator and maintainer on the JLTV FoV, at the locations selected by the Government. The Learning Analysis Data shall be used to justify any increase of training hours above 40 hours as indicated in Attachment 0035 SOWC 4072 (NET Plan). The MOT&E course is intended for Marines and Soldiers, or other personnel, as determined by the Government, who will be operating and maintaining the system during MOT&E. The Government shall confirm the training dates at least 45 days prior to the event.

ID : SOWC-4696

**2.3.8.2.4 Network Integration Evaluation Demo - Operator and Crew Training**

The Contractor shall conduct Operator and Crew training courses in support of the Network Integration Evaluation (NIE) Demo at the unit location indicated in NIE NET Schedule. These training sessions are anticipated to be 40 hours, 5 days consecutive days, in duration, and will occur at the unit site in and presented to a group consisting of vehicle operators and commanders. The Government will notify the Contractor at least 45 days in advance for training.

NIE Demo Operator and Crew training shall cover the JLTV FoV system's capabilities, functions, limitations, interfaces, and operation of the JLTV FoV in a tactical environment. Training shall also cover the daily operator/crew level preventive maintenance for the JLTV FoV system and components. Upon completion, the hands-on instruction shall enable the student to:

- (a) operate the system, subsystem, and equipment controls
- (b) demonstrate knowledge of general equipment functions and operations
- (c) perform system checks and verification procedures
- (d) operate the integrated GFE interfaces

ID : SOWC-4290

**2.3.8.2.5 Instructor and Key Personnel Training**

The Contractor shall develop Instructor and Key Personnel (IKPT) consisting of separate training for Operators, Maintainers and Sustainers. Personnel shall be military representatives from the formal schools, operating forces units, and other Government nominees. The Contractor shall conduct two separate courses to be conducted NLT 120 days prior to the first Total Package Fielding (reference

**Name of Offeror or Contractor:**

SOWC 4298, Training Support Package). The Contractor shall conduct JLTV FoV Operator classes with a maximum of Thirty (30) Operators in each class, JLTV FoV Maintainer classes with a maximum of Twenty (20) Maintainers in each class, and JLTV FoV Sustainers classes with a maximum Ten (10) in each class.

ID : SOWC-4291

**2.3.8.3 Management of Training Development**

ID : SOWC-4292

**2.3.8.3.1 Training Program Development and Management Plan**

The Contractor shall prepare, execute, and deliver a Training Program Development and Management Plan (TMP) in Contractor format which describes the Contractors approach to completing the design and development of the training deliverables including training materials, resources to support planned training events, potential risk areas, and schedule status. The Government will use the TMP to assess the soundness of the Contractors approach and ability to meet program milestones and events. This plan shall be updated IAW the C037 CDRL SOWC 4292, Training Program Development and Management Plan.

ID : SOWC-4293

**2.3.8.3.2 Training Manager**

The Contractor shall appoint a Training Manager who shall be the single POC for training and courseware development matters. The duties of this Training Manager shall include developing and updating the training program management plan, the training courseware analysis, design, development, presentation, coordination and implementation of the training.

ID : SOWC-4294

**2.3.8.3.3 Instructors**

The Contractor shall provide qualified instructors experienced with teaching methods, strategies, and techniques. Instructors shall be proficient with 1) the JLTV FoV for operator, maintainer, and sustainer tasks, all associated tools and support equipment, and 2) the entire training program, respective to the course.

The Contractor shall provide technically qualified and certified instructors on all training and instructional materials related to the Government approved POIs. Instructor certification shall be established by Army Basic Instructor Course (ABIC), or by a civilian certification program through public or private certification process, or by a documented Contractor certification program, approved by the Government, that requires instructors to (1) present instruction using the conference method (2) present instruction using the demonstration method (3) present instruction using the practical exercise (PE) method.

The Contractor shall evaluate instructor ability to present instructional materials using a performance evaluation checklist (PEC). In order to successfully complete this requirement, instructors must achieve a "GO" on the final PE by presenting a combination of the conference, demonstration, and PE methods of instruction and facilitate an Action After Review (AAR) following another instructor's presentation IAW a Performance Evaluation Checklist (PEC). Upon successful completion of a Government approved Contractor certification program, instructors become certified to teach selected NET POI(s). AR 350-1 (Army Training & Leadership Development) and TR 350-70 series (Training Development) outlines requirements for instructor certifications (reference C037 CDRL SOWC 4292, Training Program Development and Management Plan).

The Contractor shall fund travel cost, at no cost to the Government, for non-certified instructors to attend the certification training. Any subcontracted training effort shall follow existing Government instructor certification procedures and related protocol for conduct of JLTV training.

ID : SOWC-4295

**2.3.8.3.4 Training Program Working Group**

The Contractor shall establish a Curriculum and Training Materials Working Group to monitor and review the development of training materials to support the JLTV FoV. Working Group shall consist of Contractor, military, and program office personnel. This working group will track and monitor schedules, risks, and issues that impact the development and implementation of training. The Working Group shall review and approve the learning content creation, the instructional products, and provide Instructional Design and SME input. The Contractor shall record and disseminate the actions, discussions, recommendations and conclusions addressed by the working group (reference C038 CDRL SOWC 4296, Training Program Development Reports).

ID : SOWC-4296

**2.3.8.3.5 Training Program Development Reports**

The Contractor shall provide Training Program Reports to inform the Government on matters related to design and development of training materials and planning for training events. The Contractor shall identify training dates and delivery dates of draft and final training materials. The Contractor shall include the status on all training CDRLs, a list of problem areas encountered, solutions, and alternatives proposed or executed, and expenditures to date in each report. (C038 CDRL SOWC 4296, Training Program Development Reports)

ID : SOWC-4297

**2.3.8.4 NET Training Conduct**

The Contractor shall conduct JLTV FoV system training courses consisting of various instructional methods including lectures, demonstrations, and practical applications. No less than sixty (60) percent of each course shall be practical application hands-on

**Name of Offeror or Contractor:**

training. The student-to-instructor ratio shall not exceed 30:1 for lectures, and shall not exceed 5:1 for hands-on training, practical exercises, and practical application. Maximum class size is thirty (30) students. Minimum class size is ten (10) students. All training course shall make maximum usage of the TMs, IETMs, and job aids. Information in the training courses shall not contradict the TMs and IETMs. The training shall not be more than eighty (80) hours in length consisting of ten (10) eight-hour days and shall be conducted Mondays through Fridays, beginning at 0800 on the first day. Government approval is required to extend the class length beyond eighty (80) hours. The Government reserves the right to have Government or military training SMEs observe training and will notify the training manager of any discrepancies or recommendations.

ID : SOWC-4298

## 2.3.8.4.1 Training Syllabus and Program of Instruction

The Contractor shall provide for each program event and iteration of training, a training syllabus for USMC and Program of Instruction (POI) for the Army and shall be included in the Training Support Package (TSP). The training syllabus and POI shall be IAW MIL-PRF-29612B, Training Data Products (USMC) and TR 350-70 series (Army). The training syllabus and POI shall contain course objectives, the daily training schedule, criteria for successful completion, grading procedures, names of instructors and instructor contact information, in case of emergency. (C039 CDRL SOWC 4298, Training Support Package)

ID : SOWC-4299

## 2.3.8.4.2 Training Materials Changes

The Contractor shall develop training materials changes to be incorporated into the Training Support Packages (reference C039 CDRL SOWC 4298, Training Support Packages). These changes shall be based upon comments received in the course critiques and mutually agreed between the Government and the Contractor based upon training requirements documented in the Government-approved Instructional Performance Requirements Document (Training Task Data). Upon completion of each training course, the Contractor shall provide the Government with Training Materials Change data for the course, within ten (10) working days.

ID : SOWC-4300

## 2.3.8.4.3 Classroom Set-Up

The Contractor shall provide all required training equipment and materials when training is at Government or military facilities. The Contractor shall be responsible to provide all Student and Instructor training guides, view graphs, slides and/or multi-media materials necessary to provide a complete course of instruction.

ID : SOWC-4301

## 2.3.8.5 Course Conduct Information Package (Trainee and Training Course Completion Data)

ID : SOWC-4302

## 2.3.8.5.1 Course Certificates

The Contractor shall provide each student with a course completion certificate, in Government approved Contractor format, that states the type and location of training, number of hours, student name, completion date, and will be signed by the lead Contractor instructor or NET Manager at the conclusion of each class for LUT, MOT&E, LOG Demo and IKPT. The JPO JLTV NET Managers will review the certificate template and provide notification of corrections, if required. (C040 CDRL SOWC 4302, Course Certificates)

ID : SOWC-4303

## 2.3.8.5.2 Class Demographic Data

The Contractor shall record and provide to the Government the class demographic data for each JLTV training course and class for LUT, MOT&E, LOG Demo and IKPT. The data elements are type and location of training, a student roster containing student name, rank, MOS, unit and location, telephone and DSN numbers, and names of instructors. The class roster shall be provided to the Government on the first day of training, monitored throughout the training course and included in the final class documentation. (C041 CDRL SOWC 4303, Class Demographic Data)

ID : SOWC-4304

## 2.3.8.5.3 After Instruction Report (USMC), After Action Review (Army), and End of Course Survey

The Contractor shall administer an After Instruction Report (AIR) for USMC or an After Action Review (AAR) for Army to the students at the end of each course iteration using Attachment 0082 4304 (After Instruction Report or an After Action Review) and provide to the Government. Content of the AIR and AAR will be tailored to the specific course taught and submitted to the Government for review (reference C122 CDRL SOWC 4084, Training Support Package). The purpose for this data collection is to provide both the Contractor and Government the areas of the training that may need changes implemented. (reference C042 CDRL SOWC 4304, After Instruction Report (USMC), After Action Review (Army), and End of Course Survey).

ID : SOWC-4305

## 2.3.8.6 Training Materials Development

The Contractor shall employ a systematic approach to identify and analyze operator and maintainer job tasks in order to provide the individual job task data necessary to support the design and development of training curriculum.

ID : SOWC-4306

## 2.3.8.6.1 Training Task Data

The Contractor shall analyze the individual job performance requirements to operate and maintain the JLTV FoV for Crew, Operator,

**Name of Offeror or Contractor:**

Maintainer, and Sustainer. The Contractor shall compare existing military training and readiness standards, Formal School Programs of Instructions and Learning Analyses, and the Government developed JLTV FoV Master Task List (Attachment 0083 SOWC 4306, JLTV FoV Master Task List) to the new job requirements and identify specific job tasks, sub-tasks and performance steps necessary to complete the task along with the required knowledge, skills and abilities (KSAs) necessary to achieve successful task completion. Task data shall include task selection criteria (difficulty, importance, frequency, criticality) and the conditions and standards from which successful performance is measured. The Contractor shall use the Maintenance Task Analysis (MTA) as an input into the training task data for operator and maintainer Preventative and Corrective maintenance tasks. The Contractor shall use EMD Mission Task data, Skills Analysis data and training packages as inputs into the training task data. Furthermore, all tasks developed shall be input, maintained, updated PowerLOG-J. (C043 CDRL SOWC 4306, Training Task Data)

ID : SOWC-4307

## 2.3.8.6.2 Learning Analysis Report

The Contractor shall conduct a learning analysis to develop critical tasks into learning objectives, establish performance criteria related to tasks and objectives accomplishment, sequence objectives for training, and identify the mission statement, course objectives, instructional methods, learning events, training tools and aids, and media planned for instructional delivery to the various users requiring training; using the Government approved training task data. (C044 CDRL SOWC 4307, Learning Analysis Report)

ID : SOWC-4308

## 2.3.8.6.3 Training Support Packages

For each training course (operator, maintainer, and sustainer), the Contractor shall develop and deliver a Training Support Package (TSP). The TSP shall contain the Course Descriptive Data (CDD) and Program of Instruction (POI). The CDD shall provide a detailed summary of the course including instructional resources, class length, and curriculum breakdown. The POI shall describe the course in terms of structure, delivery methods and media, length, intended learning objectives, and evaluation procedures. Also the TSP shall contain the lesson topics, showing the purpose, learning objectives, and time allotted for each session; academic hours by type of instruction; instructional materials required; facility and instructor requirements; media and training support equipment; reference materials; type of instruction (practical exercise, demonstration, lecture), and tools to include Test, Measurement and Diagnostic Equipment (TMDE) required for each period of instruction. As part of the TSP, for each lesson, the Contractor shall provide a lesson Concept Card summarizing the lesson purpose, tasks the students will perform and practice, lesson execution strategy, lesson sequence group method, lesson objectives, lesson methods and media, student-instructor ratios, time and quantity of resources required.

The physical and electronic copies of the fully detailed training materials are to be delivered in the quantities that the government indicates are required for the number of personnel the government wishes to have trained. Additional copies in quantities indicated by the government as required for archival purposes shall also be delivered. All physical and electronic copies of training materials that are developed, or procured, by the Contractor under this contract shall become the sole property of the U.S. Government (The government recognizes that the intellectual property of the technical data remains the property of the contractor, as required by federal law) and shall not be used without the written consent of the COR. (C129 CDRL SOWC 4308, Training Support Package)

ID : SOWC-4309

## 2.3.8.6.4 Lesson Plans

The Contractor shall develop and deliver Lesson Plans following TRADOC Regulation 350-70 Series and NAVMC 1553.1 Systems Approach to Training User Guide format. Lesson plans shall be sequenced and contain information relevant to each period of instruction, including training objectives and instructions for the delivery of training, equipment required, application of training visual aids, check on learning and written test, and task performance checklists. (C045 CDRL SOWC 4309, Lesson Plans)

ID : SOWC-5280

## 2.3.8.6.5 Instructor Guides

The Contractor shall deliver an Instructors Guide (IG) that includes slide presentations for the instructor to utilize while conducting the training and can be used as part of the Training Support Package (TSP). The IG shall include all the information located in the lesson plans, plus the information in the visual aids. (C046 CDRL SOWC 5280, Instructor Guides)

ID : SOWC-4310

## 2.3.8.6.6 Student Guides

The Contractor shall develop and deliver Student Guides. Format may be in either Contractor or Government. The Student Guides shall contain information that enhances student mastery of learning objectives, and shall provide information and summaries relevant to each period of instruction to include training objectives, lesson outlines, and technical references. (C047 CDRL SOWC 4310, Student Guides)

ID : SOWC-4311

## 2.3.8.6.7 Training Test Package

The Contractor shall develop and deliver a Training Test Package which shall include written and performance tests for the examination of an individual's knowledge, skills, abilities, and achievement of terminal and enabling learning objectives based upon the Instructional Performance Requirements Document (Learning Analysis Report). Written test items shall be a mix of multiple choice, fill-in-the-blank questions, labeling, matching and short answer based on the learning domain of the learning objective. Test Packages shall include a minimum of three test items for each learning objective. Written tests shall contain no more than 50 questions and no less than 25 questions. The performance tests shall be developed to evaluate the student's ability to perform specific operator or maintainer

**Name of Offeror or Contractor:**

tasks and subtasks. Performance tests shall be in checklist format and have rubrics for grading performance. Instructions to the evaluator and student shall be contained in both evaluator and student copies. Version control and integrity of the tests shall be the responsibility of the Contractor. (C048 CDRL SOWC 4311, Training Test Package)

ID : SOWC-4312

**2.3.8.6.8 Job Aids**

The Contractor shall develop and deliver a job aid to provide performance support for safety concerns, set-up, operations, and preventative maintenance checks and service. The Contractor shall identify critical and complex tasks for which job aid will enhance human performance of mental and physical human-system interfaces.

The job aid shall be legibly printed on subdued colored medium weight and weatherized treaded paper and laminated card stock paper able to withstand the detrimental effects of the outdoor environment including direct sunlight, water, and humidity. The Contractor shall deliver to the Government the approved job aid in an editable commercial electronic format compatible with the Governments Microsoft software suite. Examples of relevant job aids include a hard card, pocket checklist, procedural guides. (C049 CDRL SOWC 4312, Job Aids)

ID : SOWC-4313

**2.3.8.6.9 Interactive Courseware Option**

If the Government elects to purchase Interactive Courseware (ICW), the requirements found within this section apply. Should the Government not elect to purchase the ICW, the requirements of this section do not apply.

ID : SOWC-4314

**2.3.8.6.9.1 Web-Based Interactive Courseware (ICW)**

The Contractor shall develop any Web Based and Computer Based Training products. All Interactive Multimedia Instruction (IMI) products shall have the ability to interact with JLTV FoV Simulators and Interactive Electronic Technical Manuals (IETMs). All proprietary information shall be delivered to the Government as part of this training package. IMI products shall include operators training and maintainers training. All IMI products shall be web based as well as a CD/DVD stand alone version that can be operated using Microsoft Office 2007 suite of products based service requirements.

USMC: The Contractor shall design and develop web-based ICW IMIs that operates over the Marine Corps MarineNet content delivery network and a CD-ROM-based ICW that functions in a stand-alone capacity. The Instructional Performance Requirements Document (Job Task Data and Learning Analysis) shall be used to determine the training objectives to be taught via ICW in order to ensure continuity of training from entry-level skills attainment to refresher training to maintaining unit readiness. The Contractor shall make use of Instructional Media Data, with Government approval, from existing Government-owned ICW supporting JLTV FoV subsystems or components. Any use of the Instructional Media Data elements shall be seamlessly integrating into the JLTV FoV ICW product. The Contractor shall develop the ICW in a modularized manner that allows for the addition of ICW content for future developments and system updates. The Contractor shall follow the applicable guidance in the Marine Corps College of Distance Education and Training Design and Development Standards (CDET DDS) to ensure consistent instructional design and functionality across all course elements.

(ARMY) Interactive Multimedia Instruction (IMI) Web-based training (WBT) or IMI CD-ROM based training: The Contractor shall develop operators and maintainers web-based IMIs to comply with the Advanced Distributed Learning (ADL) Shareable Content Object Reference Model (SCORM). The Contractor shall verify that the courseware loads and functions on the Reimer Digital Library (RDL) and the Army's Learning Management System prior to delivery to the Government. All web based IMI shall play on the Army's Digital Training Facility (DTF) and Government issued computers. The Contractor shall produce Distributed Learning (DL) education and training products IAW TRADOC Regulation 350-70 series and AR 350-38. The Contractor shall ensure that all courseware delivered conforms to the Army Learning Object (ALO) to support loading to the Reimer Digital Library. ALO tagging is required only for the Internet version of courseware. The specification requires creation of XML documents that conform to the ARMY LEARNING OBJECT MASTER Digital Training Director. IMIs shall be interactive with the supporting Interactive Electronic Technical Manual (IETM). The Contractor shall produce products using commercially available media/technology currently in use such as web-based training and CD/DVD-ROM. (C050 CDRL SOWC 4314, Web-Based Interactive Courseware (ICW))

ID : SOWC-4315

**2.3.8.6.9.2 Technical Compliance**

The Contractor shall provide the necessary personnel and management services to design, develop, program, test and validate asynchronous, self-paced ICW, as specified in this SOW. The Contractor shall design and develop web-based ICW that operates over the MarineNet content delivery network and a CD-ROM-based ICW that functions in a stand-alone capacity. The two versions of the courseware shall provide identical content to the student. The CD-ROM-based product shall contain all software/plugin necessary to run the product.

All ICW developed under this SOW shall meet the following requirements

- a. Conform to Sharable Content Object Reference Model (SCORM) 2004, Third Edition or later.
- b. Comply with the MarineNet Courseware Development Technical Standards (current version). Use of the MarineNet Design & Development Standards (Graphic User Interface) is recommended but not required.
- c. Utilize only approved Marine Corps software plug-ins.
- d. Operate in the MarineNet Distance Learning environment and per the Navy Marine Corps Intranet (NMCI) desktop computing software baseline (current version).

**Name of Offeror or Contractor:**

- e. Comply with Section 508 of 29 U.S.C. 794d, the Rehabilitation Act of 1996 and per the College of Continuing Education (CCE) MarineNet Courseware Development Technical Standards.
- f. Use technology that is interoperable with the infrastructure requirements of the MarineNet Distance Learning environment and Marine Corps information security policies.
- g. Include the capability to evaluate a students performance on all distance learning objectives, either within the course or as part of an external end-of-course examination

The Contractor shall apply sound instructional design principles and usability strategies appropriate for asynchronous, self-paced learning to Government Furnished Information (GFI), existing course materials and supplemental information gained from subject matter experts (SMEs), as initially defined or outlined by the Instructional Performance Requirements Document to create ICW content. The ICW shall provide learners with an opportunity to learn the required facts, rules, concepts, procedures and principles. In addition, the ICW shall provide an opportunity to practice analysis, problem solving and decision-making within instructional environments that appropriately align with desired learning outcomes. ICW content shall contain a mixture of levels of interactivity as defined in MIL-HDBK 29612-3A Development of Interactive Multimedia Instruction (IMI). However, the emphasis of the level of interactivity of developed materials should be towards Level III as defined in MIL-HDBK 29612-3A. The JLTV training needs innovative learning strategies with highly interactive, student-managed training and education products.

ID : SOWC-4316

**2.3.8.6.9.3 Instructional Media Design Plan**

The Contractor shall deliver Instructional Media Design Plan (IMDP). The Contractor shall establish separate review, IPR and correction procedures as outlined in SOWC 4315.

The IMDP shall incorporate the following primary elements:

- a. Overview.
- b. Target audiences.
- c. Prerequisites.
- d. Course flowchart at the learning taxonomy granularity level, including SCORM sequencing and navigation.
- e. IMI Content Table, including detailed outline, course structure (which may or may not be hierarchical depending on the nature of the instruction), distance learning objectives (DLOs), associated content headings, high level instructional and assessment strategies.
- f. Course flowchart, including SCORM sequencing and navigation proposal.
- g. Proposed student assessment and evaluation strategies, including technical implementation programmed as one or more Sharable Content Objects (SCOs) within the course content package with sequencing strategy as applicable, or delivered via Marine Nets assessment and evaluation tool.
- h. Prototype proposal.
- i. Technical requirements for the planned ICW.

(C051 CDRL SOWC 4316, Instructional Media Design Plan)

ID : SOWC-4317

**2.3.8.6.9.4 Instructional Media Package (Storyboards)**

The Contractor shall deliver Storyboards and detailed SCO-level flowcharts for Government concurrence before continuing with development. The first Storyboard delivery shall be the prototype. The Contractor shall deliver storyboards at completion increments of 30, 60, and 90 percent. The Storyboards shall be printable to accommodate SME who may or may not have electronic resources available during designated review periods. The Contractor shall propose any deviations from the approved Storyboard format and delivery method. The Government will consider any proposed deviations. The Government and the Contractor will jointly make final decisions for inclusion in the IMDP. (C052 CDRL SOWC 4317, Instructional Media Package)

ID : SOWC-4322

**2.3.8.6.9.5 Multimedia Instructional Tests**

The Contractor shall develop multimedia instructional packages for each lesson, each module, or, when indicated within IMDP (C052 CDRL SOWC 4316, Instructional Media Design Plan) IAW TRADOC Reg 350-70, dated 9 March 99, and the student Academic Measurement/Testing Policy Guidance (Test Policy Memo dated 6 October 01 or current version at time of delivery order award). For DL IMI web-based courseware, the Contractor shall design and deliver products IAW SCORM specifications and requirements. The Contractor shall develop randomized tests or a test item data bank capable of delivering tests with a randomized sequence of questions and answer choices. The data bank shall deliver an assessment to assess Enabling Learning Objective proficiency. The Contractor shall ensure that evaluation of the training assesses whether or not the student successfully completed the task and assess the student's ability to use the tools and information in the domain to solve the problems presented.

ID : SOWC-4323

**2.3.8.6.9.6 Validation and Technical Testing**

The Contractor shall conduct and permit the Government to conduct content validations and technical testing including playability, SCORM compliance, and similar design and performance requirements incrementally as courseware content becomes available throughout the development process. The Contractor shall conduct its validations IAW the most current version of TRADOC Regulation 350-70 and guidance governing validation for Distant Learning that are in effect at the time of award, and the milestone schedule. The Contractor shall validate that courseware is SCORM compliant using the Army SCORM Test Suite and verify courseware plays on the platforms designated in

**Name of Offeror or Contractor:**

the SOW prior to delivery of the courseware to the Government.

ID : SOWC-4324

**2.3.9 Item Unique Identification Markings**

The Contractor shall plan for and implement specific Item Unique Identification (IUID) marking on the JLTV FoV and unique components, IAW the most current version of MIL-STD-130 and 129 and DFARS clauses 252.211-7003, and DFARS 211.274, and 211.274-2

ID : SOWC-4325

**2.3.9.1 IUID Requirements**

The Contractor shall ensure all required items are marked with IUID markings prior to delivery and acceptance by the Government. The Contractor shall incorporate IUID markings into existing data plates whenever possible. IUID marking information shall be uploaded by the Contractor to the DoD IUID Registry. The Contractor shall input, verify and validate the UII in the DoD IUID Registry. Bar coding and the 2-D IUID data matrix shall be machine-readable with common optical scanning devices and be accompanied by the corresponding human-readable markings when practical. Whenever practicable, the location of the marking on the item shall ensure its readability during normal operational use. See DFARS 211.274-2 Policy for Item Unique Identification. In addition to the DFARS 211.274-2 marking requirements, the following items shall be marked by a data plate that contains the IUID data matrix:

- (a) Principal End Item
- (b) Engine
- (c) Transmission
- (d) Integrated Starter Generator (ISG)
- (e) Transfer Case
- (f) Steering Gear Box
- (g) Differential Assembly

ID : SOWC-4326

**2.3.9.2 Data Plates**

The Contractor shall permanently affix all data plates. Data plates shall be marked with a 2-D IUID data matrix defined in the most current version of MIL-STD-130. Data plates shall be IAW IUID Construct 2. Data plates shall be able to withstand the same environmental conditions as the vehicle. The vehicle data plate shall use MIL-STD-130, Figure 1, as a guide. All data plate information shall also include human and machine-readable bar coding.

ID : SOWC-4327

**2.3.9.2.1 Data Plate Information**

The Contractor shall encode 2-D IUID data matrix information on the data plate for each principal end item. The IUID data matrix shall be no less than one centimeter (1 cm) wide and no less than forty percent (40%) in contrast. The data plate shall be durable so as to remain affixed and easily readable throughout the intended useful life of the end item in its expected operational environment. The minimum data plate information for motor vehicle end items is listed below:

- (a) Nomenclature
- (b) USMC Vehicle Registration Number or Army Registration Number
- (c) Design Activity (MFR ID CAGE Code)
- (d) Serial Number (VIN)
- (e) Government Ownership Designation: US PROPERTY
- (f) Contract Number
- (g) 2-D IUID data matrix
- (h) Unique Item Identifier (UII)

ID : SOWC-4328

**2.3.9.2.2 Sub-assembly Data Plates or Markings**

The Contractor shall ensure data plates or markings are permanently affixed in all applications, as well as human and machine-readable. The data plate or markings shall be durable so as to remain affixed and easily readable throughout the intended useful life of the item in its expected operational environment. Subassembly data plates shall have human and machine-readable bar code and IUID data matrix information as follows. For subassembly items that do not currently utilize a data plate, the Contractor shall refer to MIL-STD-130 to develop best business practices for display of the below data elements:

- (a) Part Number
- (b) Serial Number
- (c) Manufacturer CAGE code
- (d) 2-D UID data matrix
- (e) Unique Item Identifier (UII)

ID : SOWC-4329

**2.3.9.3 IUID Marking Plan**

The Contractor shall deliver an IUID Marking Plan. The Plan shall include a list of all JLTV FoV baseline level components with its parent-child relationship defined, spares, special tooling or special test equipment for which an IUID is required as defined by the latest version of the DoD Guide to Uniquely Identifying Items, Assuring Valuation, Accountability and Control of Government Property and the latest version of MIL-STD-130. The Plan shall include a recommended prioritization of IUID marking on components or spares, based on

**Name of Offeror or Contractor:**

Government input, and a recommended list of components on which to affix an IUID marking. The plan shall be reviewed by the Government for appropriateness and completeness to ensure the Contractor has correctly identified items, defined how the engineering assessment for data plate or marking placement was made, and how the Contractor shall validate the readability of the IUID data matrices. The plan shall address how the Contractor shall ensure its Subcontractor and vendors mark and sustain the marking for replenishing support in the future. (C053 CDRL SOWC 4329, IUID Marking Plan)

ID : SOWC-4330

**2.3.9.3.1 IUID Review Session**

The Contractor shall conduct an IUID review session with the Government no later than 30 calendar days after submission of the proposed IUID Marking Plan. The purpose of the review session is to finalize the marking plan (reference C053 CDRL SOWC 4329, IUID Marking Plan) and for the Government to approve the list of components that must include IUID markings.

ID : SOWC-4331

**2.3.9.4 IUID Validation and Verification Report**

The Contractor shall provide an IUID Validation and Verification Report with each production batch or lot of vehicles delivered to the Government. The report shall include a representative sample of IUID-related data matrix marks on items in each delivered Contract Line Item Number, Subcontract Line Item Number, Exhibit Line Item Number (CLIN, SLIN, ELIN) that are to be validated and verified. All IUID markings on principal end items shall be validated and verified and a random representative sample of subsystems and assemblies shall be validated and verified. Information shall only be provided once for each item marked and registered. (C054 CDRL SOWC 4331, IUID Validation and Verification Report)

ID : SOWC-4332

**2.3.9.5 IUID Logistics Product Data**

The Contractor shall document all Logistics Product Data (LPD) associated with the IUID effort. All LPD shall be input, maintained and updated in the PowerLOG-J database application. Parent-child relationships associating each IUID tracked item with its next higher assembly as well as the delivered serialized JLTV end item or kit will be established and documented in PowerLOG-J. Any changes to established relationships during the contract period of performance shall be immediately updated in PowerLOG-J as they occur.

ID : SOWC-4333

**2.3.9.6 Unique Item Identifier Report**

The Unique Item Identifier Report for Embedded Items is a listing of UIIs encoded in a two-dimensional Data Matrix bar code affixed to those embedded items within the principle end item. The report shall be IAW the most current version of OSD Flat File Specification for IUID Schema document. The report shall be delivered as a flat file. The embedded item UIIs are delivered under a contract Exhibit Line Item Number (ELIN). The report identifies each embedded UII and its associated descriptive data elements. This information shall be submitted electronically, tied to a contract ELIN on the Wide Area Workflow (WAWF) Materiel Inspection and Receiving Report and is addressed to the DoD IUID Registry. Information shall be provided once for each embedded item marked and registered. (C055 CDRL SOWC 4333, Unique Item Identifier Report)

ID : SOWC-4334

**2.3.10 Support Equipment**

ID : SOWC-4335

**2.3.10.1 Special Tools and Test Equipment Development Validation**

The Contractor shall develop, maintain, and update any Special Tool and Test Equipment (ST/TE) technical documentation for the JLTV FoV. The Contractor shall document all Logistics Product Data (LPD) associated with this effort. All LPD shall be input, maintained and updated in the PowerLOG-J database application. The Contractor shall ensure sufficient quantities of validated ST/TE and common tools and support equipment are available for conducting the Log Demo, Technical Manual validations, MOT&E and I&KP Training.

ID : SOWC-4336

**2.3.10.2 Automated Test Equipment**

The Contractor shall develop embedded diagnostics such as Built-In Test (BIT), Fault Isolation Test (FIT) and Built-In Test Equipment for JLTV FoV on-system maintenance troubleshooting and fault isolation. For faults or failures that cannot be consistently and effectively isolated using embedded diagnostics, to include the failure or unavailability of the onboard diagnostics device, the Contractor shall ensure manual fault isolation and troubleshooting procedures are included in the IETM(s). Any procedures requiring an at-platform support device must be compatible with MSD, EMSS, and VADS. Any procedure requiring TMDE must use existing DoD field-authorized common and special support equipment. Documentation of fault isolation and troubleshooting procedures shall be IAW SOWC-4212.

ID : SOWC-4337

**2.3.10.3 Sets, Kits, Outfits and Tools**

For tools contained within existing DoD field-authorized common and special support equipment kits, sets, or outfits the Contractor shall identify and document each specific tool and its associated set, kit, or outfit as a part of the maintenance task analysis IAW SOWC-4212.

ID : SOWC-4338

**Name of Offeror or Contractor:**

## 2.3.11 Test Support

ID : SOWC-4339

## 2.3.11.1 Test Support Objectives

The following objectives are applicable for test support: (1) The Contractor shall deliver and manage an SSP at the site of each Government test and training activity; (2) The SSP shall be sufficient in quantity and anticipated components to maintain test or demonstration schedules; (3) The Contractor shall maintain a Contractor formatted report, which details all parts consumed during test events.

ID : SOWC-4341

## 2.3.12 Technical Support

ID : SOWC-4342

## 2.3.12.1 General

The Contractor shall provide technical support during all Government tests. Technical support includes technical advice, operating Government vehicles, user training, technical data collection and reporting, troubleshooting, repairing, deprocessing, storing, and preparing vehicles and their respective components for shipment during transition and training. User training consists of assembly and subassembly troubleshooting, component and system fault isolation, and repair. This training shall be informal in nature and done principally by demonstrating the function. Field Service Representatives (FSRs) shall be experienced and qualified to advise, make recommendations, and to orient and instruct key Government personnel with respect to operation, maintenance, and repair of the JLTV FoV and their components. The effort consists of investigation and diagnosis of problems or issues in the field related to vehicle performance, maintenance, and training.

ID : SOWC-4343

## 2.3.12.2 Training Aids, Devices, Simulators, and Simulations Support

Program Executive Office (PEO) for Simulation Training and Instrumentation (STRI) in conjunction with JPO JLTV will develop TADDS in support of the JLTV program. The Contractor shall participate in PEO STRI IPT technical interchange meetings (TIM) and in-process reviews (IPR) throughout the development of the JLTV TADSS by PEO STRI. As a member of the IPT, the Contractor shall make recommendations, propose design solutions, and participate in discussions about the trainer designs. The Contractor shall participate in preliminary design reviews, critical design reviews, preliminary and final testing and initial training associated with each trainers. The Contractor shall provide a point of contact for exchanging information about the JLTV FoV design with PEO STRI. The Contractor shall identify JLTV technical data required to design and build virtual, live, part task and hands-on JLTV FoV Trainers for each JLTV FoV. The Contractor shall provide technical guidance on the vehicle operations, vehicle technical characteristics and trouble shooting and maintenance procedures associated with each task in the JLTV Integrated Electronic Technical Manual (IETM). The Contractor shall provide a means for PEO STRI to procure JLTV FOV piece parts, components, software, and assemblies required to manufacture or build the virtual, live, part task and hands-on trainers. (reference A002 CDRL SOWC 36, Minutes)

ID : SOWC-4345

## 2.3.13 The Army Maintenance Management System

The Contractor shall complete DA Form 2408-9, Equipment Control Records for each vehicle IAW DA Pamphlet 750-8, dated August 2005. The Contractor shall prepare the form to report shipment of the item from the acceptance point of the initial accountable Army consignee. The Log Book copy shall be placed in the book binder/equipment record folder and secured in the vehicle. Electronic copies shall be delivered to LOGSA (logsa.tedb@conus.army.mil) and JPO JLTV. (C056 CDRL SOWC 4345, The Army Maintenance Management System (TAMMS))

ID : SOWC-4346

## 2.3.13.1 Logistics Information Warehouse

For any DA Form 2408-9, Equipment Control Record (ECR) changes, the Contractor shall access the Logistics Information Warehouse (LIW) (formerly WEBLOG and WEBLIDB) and update DA 2408-9 data. ECRs are available in the system, as follows: Select "Maintenance Management", then select "TAMMS Equipment DB", and then select "DA 2408-9 (ECR)". (reference C056 CDRL SOWC 4345, The Army Maintenance Management System (TAMMS))

ID : SOWC-4350

## 2.3.14 Registration Numbers

The Contractor shall apply Army or USMC vehicle registration numbers to the vehicle data plate. The Government will provide registration numbers to the Contractor 60 days prior to contract production schedule.

ID : SOWC-4351

## 2.3.15 Vehicle Serial Numbers

The Contractor shall include the appropriate serial number on the vehicle data plate. The Contractor shall ensure that all facility and test vehicle data plates reflect a JLTV FoV serial number. The Contractor shall ensure that the JLTV FoV data plates are updated with the Government provided registration numbers prior to providing vehicles for test.

ID : SOWC-4352

## 2.3.16 Radio Frequency Identification

The Contractor shall affix one Radio frequency Identification (RFID) tag to each vehicle and support package shipped Outside Continental

**Name of Offeror or Contractor:**

United States (OCONUS) identified by the Government prior to shipment. The Contractor shall write all Transportability Control Number (TCN) or Document number, vehicle serial number, and RFID tag number data fields on the RFID tag and secure the tag on vehicles prior to shipment. All RFID tags are Government furnished.

ID : SOWC-4353

2.3.17 Warranty

ID : SOWC-4355

2.3.17.1 Warranty Provisions

The Contractor shall provide the Government a list of warranty provisions and disclaimers, and provide the time period for the warranty to include commercial item warranties reference C057 CDRL SOWC 4357, Pass Through Warranty List). The Contractor shall identify any consequential damages, if applicable. The Contractor's warranty shall include a guarantee any software is virus free and free of harmful code.

ID : SOWC-4356

2.3.17.2 Warranty Repair

The Contractor shall provide free repair for all warranty defects appearing within one year after vehicle delivery.

ID : SOWC-4357

2.3.17.3 Pass -Through Applicable Warranties

The Contractor shall pass through all applicable warranties offered from its Subcontractors and vendors. The Contractor shall provide a list of the warranted items and copies of Subcontractor and vendor warranties. (C057 CDRL SOWC 4357, Pass Through Warranty List)

ID : SOWC-4358

2.3.17.4 Pass -Through Warranty Claims

Notification of a vendor pass-through warranty claim will be in writing to the Contractor from the Government. During vehicle deprocessing, written or electronic notification of such warranty claim will be provided to the Contractor by the Government. Notification shall constitute the formal warranty claim. After hand-off to the units, the Contractor will be notified of warranty claims by the Government either in writing, or electronically. Notification initiates the Contractor to coordinate the path forward with the responsible Subcontractor or vendor. The Contractor shall replace or repair the parts and or assemblies IAW the pass through warranties offered from its Subcontractors and vendors.

ID : SOWC-4359

2.3.18 Production Report

The Contractor shall provide a Production Report. The Production report shall contain the following for each JLTV production vehicle: Serial #, CLIN, Shipped or Shipped In-Place, MILSTRIP, Transportation Control Number (TCN), MODEL, Build Date, DD 250 Date, Ship Date, DD 250#, Registration Number, IUID Tag Data for each marked component (parent and child), Branch of Service (AR-Army, MC-USMC, and Other), GBL # Ship to City/State, CFE and GFE installed. (C058 CDRL SOWC 4359, Production Report)

ID : SOWC-4360

2.3.19 Parts Management Program

ID : SOWC-4361

2.3.19.1 Parts Management Program Objectives

The Contractor shall establish, update and execute a Parts Management Program (PMP) for the JLTV FoV throughout the period of performance. The Contractors Part Management Program shall be IAW MIL-STD-3018.

The planning, documented procedures, and all other documentation, media, information and data that shall define the Parts Management Program and the rationale for parts selected shall be made available to the Government for their review (reference C059 CDRL SOWC 4363, Parts Management Program Plan).

The Parts Management Program shall:

- a. Ensure Contractor, Subcontractor and other Suppliers parts meet contractual performance requirements.
- b. Document how the Contractor will ensure the proper management of Subcontractors and Suppliers and the communication of parts data and information to include technology insertion or obsolescence issues between the various levels of supply.
- c. Reduce the proliferation of parts within the JLTV FoV and across like DoD weapon systems and equipment to enhance JLTV FoV availability and the supply chain agility through screening and standardization procedures.
- d. Document the PMP correlation with the JLTV FoV obsolescence and configuration management planning.
- e. Identify, track, and mitigate any risk associated with parts availability that may lead to:
  1. Lengthy logistics response times
  2. Material shortages
  3. Lack of alternate material sources

ID : SOWC-4362

2.3.19.2 Parts Management Program Manager

**Name of Offeror or Contractor:**

The Contractor shall designate a PMP manager who shall be responsible for approving all selected parts and ensuring that the JLTV parts management processes meet the intended PMP objectives.

The designated individual shall be responsible for managing Subcontractor participation concerning contractual requirements as well as all other aspects of contractually approved processes. The Contractor's designated PMP manager shall interact or team with its acquisition activity counterparts including Government Supportability teams to ensure mutual awareness of all part-type concerns and problems, and any recommended changes to the Contractors processes that could affect program objectives.

The Contractor shall address PMP status and compliance during Logistics IPT meetings.

ID : SOWC-4363

**2.3.19.3 Parts Management Program Plan**

The Contractor shall document and execute its JLTV Parts Management Program in the Parts Management Program (PMP) Plan.

The JLTV PMP Plan shall:

1. Document the processes and procedures for determining an item of supply meets JLTV Purchase Description (Attachment 0001).
2. Address parts control to eliminate counterfeiting.
3. Communicate any technology insertion efforts that address potential modernization changes that effect a parts product specification that impacts a JLTV Purchase Description (Attachment 0001) such as the need to redress potential obsolescence issues including the need of for a life of type buy due to diminishing manufacturing sources.
4. Address the selection of alternate material sources that can serve as suppliers and list them.
5. Identify risk related to the bill of material (BOM) that will affect JLTV Sustainment goals and objectives.
6. Document the design margins for critical parts that directly affect JLTV availability.
7. Document all parts that require certification including the qualification of parts for an application) that will support the sourcing for alternate manufacturers or suppliers.

(C059 CDRL SOWC 4363, Parts Management Program Plan)

ID : SOWC-4364

**2.3.20 Diminishing Manufacturing Sources and Material Shortages**

ID : SOWC-4365

**2.3.20.1 Diminishing Manufacturing Sources and Material Shortages Management Program**

The Contractor shall develop and implement a Diminishing Manufacturing Sources and Material Shortages (DMSMS) Management Program. The Contractor shall have a DMSMS Manager with a DAWIA leadership-level competency or a certified industry DMSMS Managerial (Leadership level) equivalent competency as referenced in SD-22. The Contractor's DMSMS Manager shall be designated as a core billet and if the person is replaced, the Contractor shall replace that person within 15 business days with a similarly or higher qualified person, verifiable by Government logistics leadership through review of their resume and certificates.

ID : SOWC-4366

**2.3.20.2 Designation of DMSMS member**

The Contractor shall designate a DMSMS member (at a minimum a DAWIA technician level or industry certified DMSMS Technician equivalent) to the JPO JLTV DMSMS Management Team and Obsolescence Management Integrated Product Team (IPT). The DMSMS designated member shall participate in quarterly reviews, emergency DMSMS meetings, and Government Industry Data Exchange Program (GIDEP) IAW GIDEP Operations Manual. In lieu of the DMSMS manager, the designated DMSMS member shall attend other meetings including logistics IPT, PMRs, and SE IPT to discuss DMSMS issues or potential issues.

The Contractor shall input information concerning critical or major nonconformance's as defined in FAR 46.407 and DFARS 246.407 to the GIDEP Information System [www.gidep.org](http://www.gidep.org). The Contractor shall insert the following statement; "The Contractor shall submit information concerning critical or major nonconformance's as defined in FAR 46.407 and DFARS 246.407 to the GIDEP Information System." in any Subcontract when deemed necessary by the Contractor, when so inserted, the word "contractor" shall be changed to "subcontractor". The contractor shall input any GIDEP data which may be pertinent to items of its manufacturer and verify that the Subcontractor utilizes any such data.

For the IPT meetings, the Contractor shall provide a monthly review of active and existing obsolete part status, report and present resolution options and make recommendations to the JPO for the most cost effective solutions. The Contractor shall support and attend bi-annual (two meetings per FY) DMT Obsolescence Program Review meetings at a place within CONUS TBD.

ID : SOWC-4367

**2.3.20.3 DMSMS Management Plan**

The Contractor shall develop and deliver a DMSMS Management Plan which describes its DMSMS Processes, and source data IAW DID DI-SESS-81656 with the objective of implementing a Production Development (PD) phased DMSMS Management Plan to identify and ensure that the loss, impending loss, or obsolescence of manufacturers of software, firmware, items, suppliers of items or raw materials may cause shortages that endanger the JLTV FoV, Contractor furnished kits, support & test equipment, and equipment's development, production, or post-production support capability. Process descriptions should include, the collection of technical data to develop Bill-of-Materials (BOMs), parts monitoring for DMSMS, identification of actual and potential obsolete part issues including Ruggedized, MIL-SPEC,

**Name of Offeror or Contractor:**

Commercial-Off-The-Shelf (COTS) components, assemblies, sub-assemblies, piece-parts, raw materials, software, and firmware used on or by the components of the JLTV FoV through the period of performance (PoP) of this contract. The plan shall use ANSI/TECHAMERICA STD-0016-2012, SD-22, DoDM 4140.01-V3, and MIL-STD-3018 as guidance where applicable. (C060 CDRL SOWC 4367, DMSMS Management Plan)

ID : SOWC-4380

**2.3.20.4 Reporting of DMSMS and/or obsolete parts**

The Contractor shall describe, implement, and report the status of all DMSMS or obsolete parts within three (3) business days of discovery to the Government.

The DMSMS status shall include a complete listing of all actual and forecasted obsolete piece-parts, noting at a minimum, the following:

- A. Lowest or Line Replaceable Unit (LRU) Part Number and description.
- B. Details of the End-of-Life part issue
- C. Original Equipment Manufacturer (OEM) Part number and Description.
- D. Vendor Part Number and Description.
- E. Next Higher Assembly (NHA) Part Number and Description.
- F. Specific configuration part number(s).
- G. Vendor Cage Code and Vendor Name.

(C061 CDRL SOWC 4380, Obsolescence Report)

ID : SOWC-4381

**2.3.20.5 Health Status Report**

The Contractor shall provide a Health Status Report that contains Commercial off the Shelf (COTS) data for each designed product baseline(s) (JLTV FoV, Mission Package Configuration (MPC) unique components), Contractor furnished kits, components, and support & test equipment to determine if a functional redesign would be cost effective, forecasting the future availability, current stock and availability, to determine if a functional redesign would be cost effective. (C062 CDRL SOWC 4381, Health Status Report)

ID : SOWC-4382

**2.3.20.6 DMSMS quarterly report**

The Contractor shall provide a DMSMS quarterly report that includes a complete listing of all actual and forecasted obsolete parts, noting both the JLTV FoV and associated vendor parts numbers. The Contractor shall deliver the obsolescence reports quarterly and shall address the results of the on-going review and identification of actual and forecasted issues. In addition, these reports shall address the current and future technologies, End-of-Life (EOL), Life-of-Need Buys (LNBS), possible alternate parts, descriptions of the potential vendors and if required, recommendations for re-design options. The Contractor shall monitor all Commercial-Off-The-Shelf (COTS) assemblies and provide the DMSMS status in the delivered Quarterly Status Reports.

In addition to the delivery of the Quarterly Reports the Contractor shall:

- a. Notify the Government for End-of-Life (EOL) part issues within 30 days of receipt of the EOL Part Notification from the supplier/vendor of the part. An e-mail to the Government DMSMS Manager and notification via the DMT is sufficient to satisfy this requirement. This notification shall provide as much advance notice as possible for the Government to identify options for the end-of-life part issues. During the last quarterly delivery for the Period-of-Performance of this contract, the Contractor shall deliver a final up-to-date BOM with all system life-cycle changes including alternate part numbers used, system configuration changes made, different NHA part numbers and assembly/part descriptions and any other changes that would affect the content and/or accuracy of the BOM. (C063 CDRL SOWC 4382, DMSMS Report)

ID : SOWC-4383

**2.3.20.7 DMSMS Annual Progress Report**

The Contractor shall provide a DMSMS Annual Progress Report to show utilization of the GIDEP and reporting of the benefits gained in participation with the GIDEP through positive or negative impacts, and effects on the:

1. Availability
2. Reliability
3. Usability
4. Operability
5. Maintainability
6. Readiness

In addition to the benefits reported within the Annual Progress Report, the Contractor shall also report on the Prevention of Unplanned Expenditures (PUE) of assets and resources through the utilization of GIDEP. The DMSMS Operations Manual (Chapter 5 and appendix A) and DMSMS Quarterly Report shall be used to create the Annual Report. (C064 CDRL SOWC 4383, Annual Report)

ID : SOWC-303

**2.4 VERIFICATION AND VALIDATION ACTIVITIES**

ID : SOWC-4651

**2.4.1 System-Level Verification Testing**

The Contractor shall perform System-Level Verification Testing consisting of Break-in Testing, as detailed below. The purpose of this testing is to insure preparedness for Government testing by the early identification and correction of workmanship and quality issues.

**Name of Offeror or Contractor:**

The Contractor shall provide fourteen (14) day advance notice and an invitation to the JPO JLTV or JPO Representative to witness any Contractor System-Level testing. The Contractor shall confirm the event schedule three (3) business days prior to event. The Contractor shall successfully complete the System-Level Verification Testing prior to vehicle acceptance.

ID : SOWC-4653

**2.4.1.1 Break-in Testing**

The Contractor shall define break-in test procedures and conduct Break-in Testing on every deliverable test vehicle and trailer, with exception of RAM test assets, to address all wear-in activities and procedures required before normal vehicle operation. Break-in Testing shall include a minimum of 500 miles per vehicle, over primary road surfaces as defined in the JLTV OMS/MP (Attachment 0055 SOWC 194, OMSMP). Break-in Testing shall confirm basic vehicle mobility-related functionality, including starting, stopping, turning, as well as providing confirmation of safe vehicle operation. Break-in Testing shall ensure that no additional wear activities are required prior to Government acceptance. Break-in activities shall cover all component, subsystem, and system level break-in such as: low speed operation, limited load operations, torque adjustments, brake burnishment, suspension calibration, Electronic Stability Control (ESC) calibration and any other checks or actions to ensure full vehicle serviceability at vehicle delivery.

ID : SOWC-4655

**2.4.1.2 System-Level Verification Test Plan**

The Contractor shall develop a test plan that addresses all system-level verification testing described in Section C.2.4.1. (D005 CDRL SOWC 4655, System-Level Verification Test Plan)

ID : SOWC-4656

**2.4.1.3 System-Level Verification Test Findings**

The Contractor shall conduct root cause analysis and define and implement corrective actions through the appropriate configuration management processes for all non-conformances to the JLTV Purchases Description (Attachment 0001) identified during System-Level Verification Testing. During System-Level Verification Testing, the Contractor shall conduct weekly meetings with the Government to review any non conformances. (D006 CDRL SOWC 4656, System-Level Verification Test Report)

ID : SOWC-4659

**2.4.2 Government Testing**

Government Testing, referenced in the subparagraphs below, will be conducted to validate Contractor compliance IAW Section 4 of the JLTV Purchase Description (Attachment 0001). Non-compliance test performance is grounds for non acceptance of production deliveries.

The Vehicle Equipment and SIL Allocation Matrix (Attachment 0056 SOWC 4659, VEASAM) contains the vehicle configurations and planned test sites, schedule, estimated test duration, and types of tests, that will require Contractor support as defined in SOWC 4659, SOWC 4697, and SOWC 4705.

The Contractor shall be responsible for JLTV FoV test readiness throughout Government Testing and Logistics Demonstrations. The Contractor shall ensure JLTV FoVs are in the approved configuration for the required test(s). The Contractor shall ensure parts availability to include all scheduled maintenance supplies, adequate quantity of operator manuals, adequacy of tester and Soldier/Marine training, supply of Petroleum, Oil, and Lubricants (POL) not available in the Government supply system, and any other test support items. These items shall be made available to ensure maximum JLTV FoVs operational availability throughout Government Testing. Any shortages shall be provided by the Contractor to the test site within one (1) business day.

The Contractor shall replace tires prior to initiating steering and handling tests and replace brake pads and rotors prior to initiating brake performance tests for each vehicle in these tests (estimated 4 vehicles for each test). The Contractor shall also have one extra set of four rims available during testing to facilitate tire change-out. This is in addition to the replacement parts needed to support the remaining tests for all test vehicles.

For Contractor furnished material, parts, or equipment installed or incorporated on to Government owned test assets after inspection and acceptance of the test assets, refer to special clause H.10 of this contract.

ID : SOWC-4663

**2.4.2.1 Production Qualification Testing**

The Government will perform production qualification testing (PQT), a system-level developmental test required per AR 73-1 prior to full-rate production decision review (FRP-DR) to ensure JLTV FoV design integrity over the specified operational and environmental range. In addition to supporting the FRP decision, PQT will provide information to help determine system readiness for MOT&E. Per H.2.1, the Contractor shall be required to comply with and deliver vehicles which meet the demonstrated and observed levels of performance that the Contractor meets during the PQT test for all Tier 2-5 requirement which the contractor identifies as non-compliant in the Contractor's proposal at no additional cost to the government.

ID : SOWC-4668

**Name of Offeror or Contractor:**

## 2.4.2.1.1 Automotive Performance Testing

The Government will execute Automotive Performance Testing at various test centers as described in the VEASAM (Attachment 0056 SOWC 4659, VEASAM). Automotive Performance Testing will require LRIP vehicles of each JLTV FoV mission package configuration. Automotive Performance Testing will include mobility, transportability, Dimensional characteristics, and occupant protection. Depending on the extent of the commonality between the two-seat and four-seat variants, Automotive Performance Testing may be tailored by the Government to reduce test duration.

ID : SOWC-4671

## 2.4.2.1.2 Reliability Qualification Testing

The Government will execute RAM testing at the Government test sites indicated in the VEASAM (Attachment 0056 SOWC 4659, VEASAM) for a planned cumulative total of 200,000 miles (20,000 miles per vehicle x 10 vehicles and trailers). Vehicles and trailers planned for RAM testing, and their planned test configurations, are also indicated in the VEASAM (Attachment 0056 SOWC 4659, VEASAM). Course terrain profiles are in the JLTV OMS/MP (Attachment 0055 SOWC 194, OMSMP). Duty cycles and payload configurations are indicated in RAM Duty Cycles (Attachment 0057 SOWC 4671, RAM Duty Cycles).

ID : SOWC-4654

## 2.4.2.1.2.1 Shakedown Testing

The Government will execute shakedown testing (SDT) at the Government test sites and on the vehicles and trailers designated for RAM testing IAW the VEASAM (Attachment 0056 SOWC 4659, VEASAM). SDT shall consist of 1500 miles on each of these vehicles, consisting of 300 miles over primary surfaces, 600 miles over secondary surfaces, and 600 miles cross-country IAW with the JLTV OMS/MP (Attachment 0055 SOWC 194, OMSMP). SDT shall be conducted with vehicles configured IAW the VEASAM (Attachment 0056 SOWC 4659, VEASAM), and performed IAW RAM Duty Cycles (Attachment 0057 SOWC 4671, RAM Duty Cycles).

ID : SOWC-4672

## 2.4.2.1.3 Live Fire Test and Evaluation

The Government will execute Live Fire Test and Evaluation (LFT&E) on the JLTV FoV to verify Force Protection requirements are met (reference Attachment 0001, JLTV Purchase Description). The Government will attempt to leverage any previous Government test data to the maximum extent possible but only as is applicable based on thorough design reviews and reserves the right to retest the production configuration.

The Contractor shall provide detailed descriptions of how their Production and Deployment phase vehicle designs are common to or different from previous Government tested configurations. Because occupant force protection and survivability is a system-level attribute, the Contractor shall provide design changes at the global vehicle-level as well as the component-level. (D008 CDRL SOWC 4673, Vehicle Design Changes)

ID : SOWC-4674

## 2.4.2.1.3.1 Armor Test Assets - Options

ID : SOWC-4675

## 2.4.2.1.3.1.1 Armor Coupon Sets

For any armor recipes that differs from what was previously tested and approved by the Government, the Contractor shall deliver to the Government an armor coupon set, in the quantities indicated in Section F.x.x, for each transparent, opaque, and Explosively Formed Penetrator (EFP) armor, to validate continued conformance to the protection levels defined in the JLTV Purchase Description (Attachment 0001).

The Contractor shall include a diagram of the vehicle with the coupon delivery that identifies the correlating location of each armor recipe. The Contractor shall label each coupon with the Contractor's name, vehicle configuration, location of solution on the vehicle and indicate the attack/ strike side. (D009 CDRL SOWC 4675, Diagram)

ID : SOWC-4676

## 2.4.2.1.3.1.2 Transparent Armor

For any armor recipes that differs from what was previously tested and approved by the Government, the Contractor shall provide Transparent Armor (TA) coupons in the quantities indicated in Section F.X.X Each TA coupon shall be 400mm by 400mm in size, with a plus or minus 5mm tolerance on each linear dimension. If the actual component design is smaller than the prescribed minimum dimensions, coupons shall be delivered in the actual dimensions and include the designed window frame.

ID : SOWC-4677

## 2.4.2.1.3.1.3 Opaque Armor

For any armor recipes that differs from what was previously tested and approved by the Government, the Contractor shall deliver the Opaque Armor (OA) coupons in the quantities indicated in Section F.X.X and in the sizes specified below, depending on the type of material and level of protection.

The Contractor shall deliver B-kit solutions bolted to the appropriate A structure coupons near each corner. Each bolt center shall be located at least 1-1/4" from each edge (at corner) in order to allow testers adequate space to affix clamps to secure the target coupon to the test fixture.

**Name of Offeror or Contractor:**

The Contractor shall provide torque specification for these bolts with the coupon delivery, in order to allow the testers to disassemble and reassemble the coupons.

ID : SOWC-4678

2.4.2.1.3.1.4 Opaque Armor - Metallic Armor Solutions

For opaque armor solutions which contain only metallic layers, the Contractor shall deliver coupons which are 610mm by 610mm in size, with a plus or minus 5mm tolerance on each linear dimension.

ID : SOWC-4679

2.4.2.1.3.1.5 Opaque Armor - Ceramic and Composite Armor Solutions

The Contractor shall deliver coupons for recipes containing ceramic and composite materials in the following sizes, with tolerances of plus or minus 5mm for each linear dimension:

- a) For armor solutions which contain ceramics but no composite layers, the coupons shall be 610mm by 610mm in size.
- b) For armor solutions that have a composite backing, the composite backing shall be 610mm by 610mm in size, and centered on a 762mm by 762mm coupon.
- c) For armor where multiple layers of composites are used, all composite layers which follow the last metallic element in the coupon shall be 610mm by 610mm and all elements prior to this shall be 762mm by 762mm in size.

ID : SOWC-4680

2.4.2.1.3.1.6 Explosively Formed Penetrator Coupons

The Contractor shall provide Explosively Formed Penetrator (EFP) protection kit solutions in the quantities indicated in Section F.X.

The EFP protection kit solutions shall be mounted on a large enough sample of the B-kit door in order to facilitate coupon testing. Each EFP protection kit coupon shall be no smaller than 460mm by 460mm in size with a plus or minus 5mm tolerance on each linear dimension. All required mounting hardware shall be provided by the Contractor.

EFP coupons do not need to be assembled and bolted together, but they shall be delivered with the armor layers in the proper order. If the coupons are bolted, the Government testers reserve the right to remove the bolts prior to testing.

ID : SOWC-4683

2.4.2.1.3.1.7 Ballistic Armor Structures

The Government may perform follow on exploitation and blast testing to verify contractual compliance in advance of Full Up System Level (FUSL) testing. The Contractor shall provide the ballistic armor structures in the quantities indicated in Section F.X.X and described in paragraph SOWC 4684 below.

ID : SOWC-4684

2.4.2.1.3.1.8 A-Structure Ballistic Cab

The ballistic cab in the A-structure armor level of protection shall be configured without the wheels, suspension, drivetrain, or any interior components unless they are designed to provide ballistic protection. The Contractor shall also deliver a test stand which attaches to the cab and supports it so that the bottom is at the Contractor designed operational ride height but does not block access to the cab sides or underbody. The four legs of the test stand shall be located where the vehicle tires would normally be.

ID : SOWC-4687

2.4.2.1.3.2 Automatic Fire Extinguishing System Testing

Automatic Fire Extinguishing System Testing (AFES) testing will generate the data required to evaluate the effectiveness of the JLTV FoV AFES to protect crews and internal or stowed equipment from fires expected to be initiated during ballistic events. Testing shall focus on the capability of the AFES to extinguish fires and prevent crew injuries, and shall explore the vehicle design features that either contribute to or minimize the likelihood or severity of ballistic-initiated or peacetime fires.

The Contractor shall provide details on the AFES system, outlining design commonalities and differences across vehicle variants. For example, if the GP and HGC have the same bottle volume, but will have unique nozzle orientation/configuration, that should be noted. (D010 CDRL SOWC 4687, AFES System details)

ID : SOWC-4688

2.4.2.1.3.3 Field Service Representative for Live Fire Test and Evaluation

The Contractor shall provide dedicated Field Service Representative (FSR) for the purpose of maintaining, repairing test assets, and reconfiguring test assets with GFE and CFE for ballistic testing of armor structures, FUSL, and AFES testing throughout the Live Fire Test and Evaluation program. FSR support is not required for coupon testing. FSRs shall be onsite at test site when vehicles arrive to address discrepancies as well as reconfigure the vehicle GFE and CFE for weight evaluations. FSRs need to be knowledgeable of vehicle ballistic/blast protection systems and be available, throughout the test execution phase, to troubleshoot vehicle issues, resolve test asset configuration issues, and provide vehicle repair to include repair of test assets after the first ballistic shot (2 shots per asset), as well as repairs necessary to allow vehicles to continue testing.

Each Full Up System Level (FUSL) testing vehicle is scheduled to undergo two ballistic or blast events, and the Contractor shall provide

**Name of Offeror or Contractor:**

test asset repair support between these events. Between events, the Contractor shall repair these vehicles to a condition that allows for realistic/representative, as determined by the Government, assessment of accelerative load inputs to crew during blast events. Additionally for both FUSL tests, the AFES system shall be maintained to a fully operational condition. In addition, vehicle armor shall be replaced or repaired to such an extent that no damage remains in areas on and around ballistic threat area for any upcoming events.

ID : SOWC-4689

2.4.2.1.4 Command, Control, Communication, Computers, Intelligence, Surveillance, Reconnaissance

The Contractor shall be responsible for preparing the vehicle and Command, Control, Communication, Computers, Intelligence Surveillance, Reconnaissance (C4ISR) systems for Government testing. The Government will assess the Contractor designed solution to validate its readiness to fielding. These evaluations will periodically occur based upon changes to software, hardware, and Cyber threats. The Contractor shall be responsible to implement corrective actions to resolve test and performance deficiencies identified during testing (reference SOWC 4711).

ID : SOWC-4691

2.4.2.1.4.1 TEMPEST

The Contractor shall provide onsite C4ISR SMEs and vehicle FSRs; C4ISR and vehicle documentation; vehicle configuration and reconfiguration for software and hardware during TEMPEST testing. TEMPEST testing will occur initially as a baseline configuration and then periodically as C4ISR hardware, software, and wiring systems are updated. The Contractor shall verify the vehicle and the integrated systems have been functionally validated prior to entrance into TEMPEST testing.

ID : SOWC-4692

2.4.2.1.4.2 Electromagnetic Compatability, Electromagnetic Interference, and Electronmagnetic Environmental Effects

The Contractor shall provide onsite C4ISR SMEs and vehicle FSRs; C4ISR and vehicle documentation; vehicle configuration and reconfiguration for software and hardware during Electromagnetic Compatability (EMC) and Electromagnetic Interference (EMI) testing and review. EMC and EMI testing will occur initially as baseline configurations and then periodically as C4ISR hardware, software, and wiring systems are updated. The Contractor shall verify the vehicle and the integrated systems have been functionally validated prior to entrance into EMC and EMI testing.

ID : SOWC-4693

2.4.2.1.4.3 Interoperability

The Contractor shall provide onsite C4ISR SMEs and vehicle FSRs; C4ISR and vehicle documentation; vehicle configuration and reconfiguration for software and hardware during systems interoperability testing including those required for Net Ready Certification. Interoperability testing will occur initially as baseline configurations and then periodically as C4ISR hardware and software systems are updated. The Contractor shall verify the vehicle and the integrated systems have been functionally validated prior to entrance into interoperability testing and documented in CDRL Systems Interoperability Report. (B055 CDRL SOWC 4693, Systems Interoperability Report)

ID : SOWC-4694

2.4.2.1.4.4 Network Integration Evaluation Testing

Throughout Government Network Integration Evaluation (NIE) testing, the Contractor shall be responsible to ensure JLTV FoV test readiness and proper vehicle and GFE configuration for maximum operational availability throughout Government NIE Testing. Prior to delivery of the vehicles participating in the NIE, the Contractor shall replace the tires and brake pads and rotors on each vehicle involved in the exercise. A total of Eight (8) vehicles total are required for participation in the NIE.

The Contractor shall also have one extra vehicle set of tire and wheel assemblies available during testing to facilitate tire change-out. This is in addition to the replacement parts needed to support the NIE for all test vehicles (reference SOWC 4659).

ID : SOWC-4695

2.4.2.1.4.5 Network Integratin Evaluation Demonstration

The NIE Demo will be conducted using JLTV FoV at locations during the NIE as determined by the Operational Test Agency (OTA), and performed within the constraints specified by the U.S. Army Evaluation Command (AEC) and USMC PEO Land Systems (LS) safety release processes. The duration of the Demonstration is defined in the VEASAM (Attachment 0056 SOWC 4659, VEASAM). The Contractor shall be responsible for conducting all maintenance beyond Operator and Crew during the NIE Demonstration.

ID : SOWC-4697

2.4.2.1.4.6 Network Integration Evaluation Demonstration - Field Service Representative

The Contractor shall provide dedicated FSR support at NIE locations concurrently where testing is being performed, for the purpose of maintaining, repairing test assets, and reconfiguring test assets with GFE and CFE throughout the NIE test period whenever Government testing is being performed.

For NIE activities or events requiring multiple shifts, dedicated FSRs shall be provided for each shift. At the completion of NIE activities or events, the FSRs shall be responsible for removal of GFE from the vehicles and coordinating storage with the NIE Logistics representatives.

Maintenance shall be performed within the NIE operating hours as defined local standard procedures. However, when critical safety or

**Name of Offeror or Contractor:**

catastrophic failure occurs, the Contractor may request from the Government additional test site facilities and personnel (data collectors and drivers at a minimum) to support additional hours of maintenance outside the base work day in order to facilitate more rapid repairs. All requests shall be made as soon as practical to the Government, but due to time and resource constraints, may not always be able to be granted by the Government.

The Contractor shall provide continuous availability FSR support during the Government NIE. The NIE test period is anticipated to run seven days a week, with two overlapping 8-hour shifts for 17 weeks. The FSR shall be posted to the Fort Bliss Integration Motor Pool at the beginning of the NIE until the end of the exercise, or until the completion of NIE responsibilities IAW the VEASAM (Attachment SOWC 4659, VEASAM).

The FSR(s) shall be knowledgeable in the fabrication, assembly, and operation of the vehicle in order to minimize vehicle down time. FSR(s) shall have sufficient knowledge for the following:

- Vehicle Displays,
- Computers,
- C4ISR,
- Electrical Systems,
- Mechanical Systems
- Load Plan
- Recovery
- Maintenance

ID : SOWC-4698

**2.4.2.2 Multi-Service Operational Test and Evaluation**

The Government will conduct Multi-Service Operational Test and Evaluation (MOT&E) in which soldiers and Marines will evaluate suitability and effectiveness of the JLTV PoV in operational environment executing missions IAW the JLTV OMSMP (Attachment 0055 SOWC 194, JLTV OMSMP). The record test will consist of multi-scenarios with transition to different operations to provide the opportunity for unified land operations. This test event will be conducted over four iterations of 72 hours of simulated combat operations. The MOT&E event is currently planned for 44,000 miles (approximately 1,200 miles per 37 vehicles plus four spares).

The Contractor shall provide FSRs who shall serve as technical SMEs and provide maintenance above the operator level. All operator level maintenance will be performed by Soldiers and Marines, as described in the Operator Manuals.

ID : SOWC-4661

**2.4.3 Refurbishment of test assets after completion of testing**

The Contractor shall refurbish all PQT and MOT&E test vehicles, with the exception of the vehicles used in FUSL/LFT events, to condition code A of AR 7250, Table C-38.

The Contractor shall provide all personnel, equipment, tools, materials, repair parts, transportation, supervision and other items and services to inspect and rebuild the test vehicles to the current mission package configuration and Bill of Material (BOM) (reference A020 CDRL SOWC 770, Production Indentured Bill of Material).

The vehicles shall be rebuilt to meet current JLTV Purchase Description (Attachment 0001) requirements. Assemblies, components and Line Replaceable Units (LRU's) shall follow applicable rebuild requirements within Condition Code A, National Maintenance Work Requirements (NMWR) and Depot Maintenance Work Requirements (DMWR), if they exist.

After refurbishment, the Contractor shall thoroughly inspect and test the vehicles and submit a Final Inspection Report (FIR) (reference E012 CDRL, FIR). The completed vehicles shall be delivered to the Government within 180 days after the completion of testing.

ID : SOWC-4704

**2.4.4 Support Facilities at Government Test Sites**

The Government will provide Contractor office space at any Government test site where testing is occurring in duration of one month or more, as outlined in Attachment 0056 SOWC 4659, VEASAM. The Government will provide these office facilities 14 days prior to vehicle delivery through the end of testing at each of these test locations.

Contractor office space will be furnished with a desk and phone with the exception of Aberdeen Proving Ground (APG) and Yuma Proving Ground (YPG) where two desks, two phone lines and a storage area for CONEX boxes will be provided. If space for additional CONEX containers is required, beyond the number initially provided, or for test sites covered in this section, the Contractor shall negotiate directly with Test Centers.

ID : SOWC-4706

**2.4.5 Subject Matter Experts**

The Contractor shall have Subject Matter Experts (SMEs) available to travel to any of the test sites to perform troubleshooting or failure analysis of critical or major incidents (as defined by the Test Incident Report (TIR) for any of the vehicles under Government testing. The Contractor SMEs shall arrive onsite at the Government test site within two business days of Government request.

**Name of Offeror or Contractor:**

ID : SOWC-4705

**2.4.6 Field Service Representative**

The Contractor shall provide and make available during the entire Government Test Schedule dedicated Field Service Representative (FSRs) at test sites concurrently where testing is being performed.

The Contractor shall provide sufficient FSRs to support two, daily 10-hour shifts at YPG, APG, EPG, RTC, ERDC and Cold Regions Test Center (CRTC) and Tropic Regions Test Center (TRTC) for the purpose of maintaining, repairing test assets, and reconfiguring test assets with GFE/CFE throughout the Government test period whenever Government testing is being performed. Refer to the VEASAM (Attachment 0056 SOWC 4659, VEASAM) for test duration, location and types. The Contractor shall also provide dedicated FSR support for the ballistic testing of armor structures outlined in SOWC 4672. FSRs shall be onsite at test site when vehicles arrive to address discrepancies as well as reconfigure the vehicle GFE and CFE for weight evaluations. For test sites working multiple shifts, dedicated FSR support shall be provided for each shift. At the completion of testing, the FSRs shall be responsible for removal of GFE from the vehicles and coordinating storage with the test sites.

Maintenance shall be performed within the test site operating hours as defined below. However, when category I or II failure occurs per MIL STD882D, the Contractor may request from the Government additional test site facilities and personnel (data collectors and drivers at a minimum) to support additional hours of maintenance outside the base work day in order to facilitate more rapid repairs. All requests shall be made as soon as practical to the Government, but due to time and resource constraints, may not always be able to be granted by the Government.

The FSR(s) shall be knowledgeable in the fabrication, assembly, and operation of the vehicle in order to minimize down time. FSR(s) shall have sufficient knowledge for the following:

- Vehicle Displays,
- Computers,
- C4ISR,
- Electrical Systems,
- Mechanical Systems
- Load Plan
- Recovery
- Maintenance

Government Performance Testing is planned for one shift of 10 hours per day, for up to six days per week. Government RAM Testing is planned for two shifts of 10 hours each per day, for up to six days per week.

ID : SOWC-4707

**2.4.7 System Support Management Strategy**

The Contractor shall develop and conduct a system support management strategy. The Contractor's strategy shall minimize test and Logistics Demonstrations down time. The strategy shall include a plan for providing parts to resolve issues and failures with test assets and ensuring assets can maintain the test schedule at each test location.

The strategy shall identify special test equipment, tools, special lubricants required for testing and describe current calibration of required support equipment. All spare or replacement parts shall be marked or tagged with the part number/NSN. This information shall be available to the Government and discussed at IPT meetings as well as major reviews IAW the IMP (reference Attachment 0002 SOWC 25, IMP).

ID : SOWC-4709

**2.4.7.1 Spare Parts Storage**

The Government will provide storage area for a CONEX box to be used for spare parts storage. If additional space is needed, the Contractor shall work directly with the test sites to arrange for additional space 120 days prior to start of testing.

ID : SOWC-4710

**2.4.7.2 Parts Disposal**

The Contractor shall identify and store failed, used, worn, and obsolete parts. The Contractor shall mark, tag, and control each failed part with the part number/NSN, and those parts that respective and include Test Incident Report (TIR) number if available. The Contractor shall ensure that all identification markings and tagging placed on a parts and test exhibit are legible. The Contractor shall handle each part in a manner that does not damage the part and test exhibit. The Contractor shall be fully responsible for the storage of each of the parts (no matter where the storage facility is located) and the item(s) shall remain stored pending disposition of the failure analysis and Government notification and approval.

ID : SOWC-5091

**2.4.8 Test Support Materials**

ID : SOWC-5092

**2.4.8.1 Wiring Harnesses for Power Generation Testing**

The Contractor shall provide wiring harnesses for all vehicle configurations that allow the Government to connect external load banks to

**Name of Offeror or Contractor:**

the 28VDC On-board Vehicle Power (OBVP) and Export Power Kit (AC).

The test harnesses and inter-connects shall enable the transfer up to the maximum power load (from the OBVP and the Exportable Electric Power Kit) to external load banks. The load bank cable connections shall be terminated with 3/8 diameter ring terminals and permanently marked in human readable text. They shall include strain relief and shielding to withstand off-road vehicle dynamics. The vehicle shall contain dedicated connection points that are external to the vehicle cabin and accessible when any shelter is installed on the UTL or when any kit or GFE is installed on either four (4) or two (2) seat vehicles. The load bank cable connections shall be terminated with 3/8 diameter ring terminals and permanently marked in human readable text.

The contractor shall provide a detailed description of the test harnesses used for connecting the load banks to the 28VDC On-board Vehicle Power (OBVP) and the Export Power Kit. The design package shall include the item number of both harnesses for each vehicle type (unless using a common design); the electrical schematics; the part number/manufacturer for each connector and termination including applicable mating connectors; the wire gauge, manufacturer, and part number for each cable; the amperage rating at maximum load for each cable and the associated maximum temperature rating; the pictorial location of the test harness attachment points on the vehicle; a narrative of the method to energize the test harnesses; the installation procedures for test harnesses; and a description of electrical safety features. (B005 CDRL SOWC 5092, Wiring Diagrams)

ID : SOWC-5276

#### 2.4.8.1.1 Wiring Harnesses for Power Generation Testing - 28 VDC OBVP

The Contractor shall provide wiring harnesses for all vehicle configurations that allow the Government to connect external load banks to the 28VDC On-board Vehicle Power (OBVP) system. The Contractor shall deliver the following DC power generation test harness:

- \*1 harness for each RQT (Durability) vehicle
- \*1 harness for each Power Generation test vehicle
- \*5 harnesses for other performance test vehicles

Each test harness shall consist of two power cables and two ground cables between 2/0 and 4/0 American Wire Gauge (AWG). Each OBVP cable shall extend a minimum of 5 from any point of the external perimeter of the JLTIV FoV, and not be limited to just the cab.

ID : SOWC-5277

#### 2.4.8.1.2 Wiring Harnesses for Power Generation Testing - AC Export Power Kit

The Contractor shall provide wiring harnesses for all vehicle configurations that allow the Government to connect external load banks to the AC Export Power Kit. The Contractor shall deliver the following AC power generation test harness:

- \* One (1) harness for each AC Export Power Kit
- \* Five (5) 5 harnesses for other performance test vehicles

The test harness shall consist of cables that include hot, neutral, and ground that are each are a minimum of 1/0 AWG. The test harness shall contain matting connector(s) that will allow the test harness to be connected directly to the Export Power Kit. Each AC Export Power cable shall extended a minimum of 10 from the power connector on the Export Power Kit.

ID : SOWC-4667

#### 2.4.9 Lithium Batteries

The Contractor shall coordinate with Navel Sea Systems Command (NAVSEA) to obtain safety approval of each lithium battery system (including lithium ion batteries) used in the JLTIV FoV, including those in CFE. The lithium battery system(s) shall be safety approved by NAVSEA IAW NAVSEA TM S9310-AQ-SAF-010 and SG270-BV-SAF-010 (where applicable). All Class I changes to safety approved lithium battery systems must also be safety approved by NAVSEA. Coordination with NAVSEA shall include SME technical support and delivering test assets to NAVSEA in configurations to be provided by NAVSEA for the safety approval testing.

The Contractor shall provide documentation of safety approval for each lithium battery type used on the JLTIV FoV within 14 months after contract award. (D007 CDRL SOWC 4667, Lithium Battery Approval)

ID : SOWC-4711

#### 2.5 TEST DEFICIENCIES AND FAILURES

This section outlines the process and procedures to address test deficiencies and failures identified during Government testing.

ID : SOWC-4712

#### 2.5.1 VISION Digital Library System (VDLS) Utilization

The Contractor shall access VDLS (<https://vdlis.atc.army.mil>) for all Test Incident Reports (TIRs) released during Government-required testing. The Contractor shall access Secret VDLS for the handling of classified TIRs. Receipt of a TIR is defined as the TIR Release Date.

ID : SOWC-4713

**Name of Offeror or Contractor:****2.5.2 Failure Analysis and Corrective Actions**

The Contractor shall implement a closed-loop failure reporting system (Failure Reporting, Analysis, and Corrective Action System (FRACAS)) to track test deficiencies identified during Government testing. The Contractor shall adhere to Configuration Management, Section SOWC 211, for any changes to vehicle configuration as a result of any corrective actions.

The Contractor shall provide Failure Analysis and Corrective Action reports (FACARs) in response to all Critical and Major TIRs. The Contractor shall provide FACARs to Minor and Informational TIRs at the request of the Government. FACARs are not required for TIRs that are generated as a result of the following: crew, personnel, or Government Furnished Equipment (GFE - hardware and software) not attributed to the vehicle. The Contractor shall analyze and classify each FACAR with one of the failure mode identification codes (A, BC, BD) defined in FDSC (Attachment 0058 SOWC 4713 JLTIV RAM FEF Guidelines). The Contractor shall conduct root cause analysis and corrective action for all FACARs classified as BC and BD. The Contractor shall utilize root cause analysis technical tools such as finite element analysis, that are appropriate to the issue.

The Contractor shall analyze and assign a Fix Effectiveness Factor (FEF) to each BC and BD classified FACAR to assess the redesign impact. The FEF analysis shall include a comparison of the allocated reliability value to the predicted reliability value and to the demonstrated reliability value. The FACAR shall address root cause determination, corrective action development and implementation, process control improvements, and test results. The FACAR shall also include schedule of repair, time to repair, and availability of parts.

For all Critical and Major TIRs, FACARs shall include subsystem testing as substantiating evidence. For all corrective actions that include any software modification(s), regression testing shall be used to ensure that no functional impacts have occurred beyond those that were intended to be addressed by the software modification. The results of the regression testing shall be included in the FACAR. Similarly, during the course of conducting root cause analysis on test deficiencies, the investigation shall explore the possibility of the incident having occurred as an unwanted result of a previously implemented software modification. For corrective actions that involve non-software modifications, the concepts of regression testing shall also be applied. Testing shall be conducted to verify that the corrective action did not have any functional impact beyond those intended. All FACARs shall include a functional block diagram. (D011 CDRL SOWC 4713, FRACAS)

ID : SOWC-4714

**2.5.3 TIR Responses**

The Contractor shall respond to TIRs that require a FACAR within the following time frames defined below.

**Critical TIRs:**

The Contractor shall provide an update via telephone to a designated Government person as identified by the test IPT within 24 hours of Government notification of a Critical TIR. The Initial FACAR shall be submitted within three calendar days of TIR release date or TIR revision date if revision impacts TIR incident classification. Final FACAR submitted within seven calendar days of TIR Release Date, unless an extension is requested by the Contractor in writing, and approved by the Government.

**Major TIRs:**

For Major TIRs, the Contractor shall submit the initial FACAR to the Government within seven calendar days of TIR release date or TIR revision date if revision impacts TIR incident classification. The Contractor shall submit the final FACAR within 14 calendar days of TIR release date, unless an extension is requested by the Contractor in writing, and approved by the Government.

**Minor/Informational TIRs:**

Depending on the severity and frequency of the incidences, the Government may request, the Contractor to submit a FACAR within 24 calendar days of date of request.

ID : SOWC-4602

**2.6 TECHNICAL DATA PACKAGE PURCHASE OPTION**

IAW section H, the Government may exercise the option to purchase additional technical data rights sufficient to support competition of the Technical Data Package (TDP) for the JLTIV FoV. The requirements found within this section apply only when the Government exercises the TDP option. If the Government does not exercise the TDP option the requirements of this section (C.2.6) do not apply.

ID : SOWC-4603

**2.6.1 Government Data Rights**

All data rights shall be IAW the provisions of DFARS 252.227-7013, 252.227-7014, and 252.227-7015. In accordance with DFARS 252.227-7037(c), the Contractor shall provide documentation sufficient to justify that the requirements of DFARS 252.227-7013 and ASME Y14.24 Appendix A are met prior to requesting for approval from the Government to release a Vendor Item Control or Source Controlled drawing (see C.2.6.6). Vendor Item Control and Source Control drawings shall be delivered to the Government with Unlimited rights to the drawing and associated 3D solid model.

ID : SOWC-4604

**2.6.2 Technical Data Package**

Unless otherwise specified herein, the TDP shall document the technical data for the entire JLTIV FoV and conform to the requirements of

**Name of Offeror or Contractor:**

the latest revision of MIL-STD-31000. Refer to Attachment 0023 TDP1 for MIL-STD-31000 Figures 2 and 3, TDP Option Selection Worksheet definitions. The Contractor shall ensure that the drawings and 3D models are in compliance with the ordering data as defined in the TDP option worksheet.

ID : SOWC-4605

**2.6.2.1 Utilization of the TDP**

The Contractor shall use the TDP to be delivered to the Government for all activities related to the manufacture and assembly of the JLTV FoV. The Contractor shall not maintain or utilize a separate TDP for the purposes of production unless specific approval has been given by JPO JLTV through the PCO. All changes to the vehicle design shall be incorporated into the TDP to be delivered to the Government by the Contractor.

ID : SOWC-4606

**2.6.2.2 Technical Data Package, 3D Solid Models, and 2D Drawings**

The JLTV FoV TDP shall be developed utilizing CREO Parametric 3D Solid Models and drawing files. The Contractor shall provide and deliver updates and revisions to existing solid model and CAD files and shall release new solid model and CAD files in CREO Parametric. Government concurrence must be obtained prior to usage of any other CAD format. The Contractor shall perform all work under this contract using the Government Windchill PDMLink, beginning with the date the Government exercises the TDP Option and shall provide models and CAD files which successfully pass the quality checks and Windchill PDMLink release process defined in these modeling standards.

ID : SOWC-4607

**2.6.2.2.1 Solid Models**

The Contractor shall deliver 3D Solid Models in CREO Parametric, Windchill PDMLink, of all components developed or modified under this contract IAW Attachment 0024 SOWC 4147, TDP2. The models shall be marked IAW DFARS 252.227-7013, DFARS 252.227-7014 and DFARS 252.227-7015.

ID : SOWC-4608

**2.6.2.2.2 Modeling Standard**

JPO JLTV acknowledges that the modeling standard specified in Attachment 0024 SOWC 4147, TDP2 was developed by PdM-MTV for use on the FMTV program. For the purposes of this SOW, the same standard is applicable to the requirements specified for the JLTV FoV TDP. In cases where PdM-MTV is referenced in the standard, JPO JLTV will serve as the point of contact and decision making authority in all matters relating to the JLTV FoV TDP. All technical requirements found within the standard apply unless otherwise the contractor is notified to the contrary by JPO JLTV through the PCO.

ID : SOWC-4609

**2.6.2.2.3 Engineering Drawings, Product Drawings and Records**

The Contractor shall provide Product Design Drawings as described in MIL-STD-31000 and IAW B023 CDRL 1217 ECP, the most current versions of DI-SESS-81000E, ASME Y14.100M, ASME Y14.34M, ASME Y14.35M, and ASME Y14.24M. Detailed subassembly and assembly drawings shall be completely delineated, directly or by reference to other documents, engineering requirements and characteristics. The delineation shall include materials and tolerance methods where applicable per ASME 14.5M-2009. Engineering drawings and associated lists shall at a minimum provide the necessary design, engineering, manufacturing, and quality assurance information sufficient to procure or manufacture an item that duplicates the physical and performance characteristics of the original prototype, without additional design engineering effort or recourse to the original design activity. The Contractor shall deliver all drawings, revisions, and redraws (of old drawings) in CREO Parametric, and release them into Windchill PDMLink. Quality Assurance Provisions shall be included on the drawings per Section E of this contract. The QAPs shall note the type and frequency of process and product controls or required test for performance, validation, and production control purposes. Container drawings for the engine and transmission shall also be provided as product drawings defined herein. Vehicle top assembly drawings, camouflage drawings, kit drawings, and TACOM peculiar drawings shall also be provided.

ID : SOWC-4610

**2.6.2.2.4 Drawings and Associated Lists**

Engineering drawings and associated lists prepared shall be legible. Layout drawings and combinations of types of engineering drawings may be used to convey the engineering end item to cognizant Government engineers and scientists and are to be sufficiently detailed to enable competitive procurement or fabrication of the end item. Detail assembly drawings for welded components and other inseparable assemblies are acceptable where each piece is detailed therein and none of the individual pieces are provisioned as spare or repair parts.

ID : SOWC-4611

**2.6.2.2.5 Dressed Components**

Contractor shall provide dressed component drawings for the engine, transmission, axles, transfer case, cooling pack, and cab if applicable. A dressed component is a properly manufactured, assembled and tested set of parts, subsystems and assemblies that are complete for installation in the vehicle delivered under this contract. Dressed component drawings shall identify all sprockets, pulleys, mounts and other add-ons that integrate the component to the vehicle installation. The dressed component drawings shall be complete in assembly and detail to allow procurement of the dressed component.

**Name of Offeror or Contractor:**

ID : SOWC-4612

**2.6.2.2.6 Review and Approval of Drawings and Solid Models**

2-D line drawings and corresponding 3-D solid models shall be provided to the Government for review by installation. After Government approval of a drawing the Contractor shall record in the change block of the drawing any subsequent changes made to the drawing. All solid model and drawing updates shall be submitted to the Government for review.

ID : SOWC-4614

**2.6.2.2.7 Drawing Number Report**

All product drawings including Package Content and Kit drawings produced under this contract shall be assigned Government issued drawing part numbers. These drawing/part numbers can be obtained by submitting a written request to JPO JLTV specifying the type and quantity of drawings being produced. The allocation of these numbers shall be reported on a frequency specified on the DD Form 1423. This report shall be prepared IAW DI-SESS-81011E and include the Contractor's name, address and contract number and manufacturer part number. A cross-reference list shall be provided showing the Government (TACOM) part number and the corresponding vendor part number. (reference B035 CDRL SOWC 4155, Drawing Number Report)

ID : SOWC-4615

**2.6.2.2.8 Drawing/Part Numbers for Privately Developed Items**

Contractors are prohibited from assigning drawing/part numbers to privately developed items prior to Government approval. If an item is approved for incorporation into the design, the Contractor shall assign a Government issued drawing number to the item.

ID : SOWC-4616

**2.6.2.2.9 Drawing Custodianship**

The Contractor shall be responsible for all original document files in its possession to include 3-D Pro/ENGINEER Solid Models, 2-D line drawings, associated documents, and technical documentation. As drawing custodian, the Contractor shall be responsible to make any changes authorized by JPO JLTV to the original document files, to provide copies of the changed document files to CO-users and to provide electronic files in one of the file formats identified below to the Government within 10 days of request. The Contractor shall not transfer any Government drawing files without written approval from the Government.

ID : SOWC-4617

**2.6.2.2.10 Drawings and TDP Requirements**

ID : SOWC-4618

**2.6.2.2.10.1 Product Structure (Drawing Tree)**

The Contractor shall establish and maintain a product structure (drawing tree) reflecting the top/down generation breakdown of the JLTV FoV models. The product structure (drawing tree) shall include all separable assemblies, items requiring component specifications, and software. The drawing tree shall be made available for design and other disciplines' review.

ID : SOWC-4620

**2.6.3 TDP Delivery Schedule**

The Contractor shall begin delivery of the TDP six months after the TDP option is exercised and complete delivery NLT one year after the TDP option is exercised. Should there be any design changes to components that have already been delivered and approved by the Government which resolve issues discovered during testing, the Contractor shall incorporate these changes at no additional cost to the Government.

ID : SOWC-4621

**2.6.4 Technical Data Package Warranty**

Per DFARS 252.246-7001, the Contractor shall ensure the ECPs, VECPs, and RFDs generated under this contract shall contain accurate and up-to-date information. The ECPs/VECPs/RFDs shall accurately define the current production configuration, the reason for the proposed change, and the proposed production configuration. Any repercussions based on erroneous or deficient change packages shall be corrected by the Contractor at no additional cost to the Government. This shall include deficient changes to the production hardware as well as the production configuration. The Contractor shall prepare corrective ECPs and follow-on Engineering Release Record (ERR) packages IAW the requirements of this contract at no cost to the Government. Warranty period shall be IAW DFARS Clause 252.246-7001, Warranty of Data and shall begin at the date of submittal to the Government.

ID : SOWC-4622

**2.6.5 CAD Software Updates**

To maintain the Department of Defense Information Assurance Certification and Accreditation Process (DIACAP), the Government will occasionally migrate to updated versions of CAD software. The Contractor shall update to this software at the same time as the Government to reduce the impact on the ECP development process.

ID : SOWC-4623

**2.6.6 Source Control or Vendor Item Control Drawings and Models**

When creating new Source Control or Vendor Item Control drawings and corresponding models, the Contractor shall provide complete form, fit, function, and interface information as well as detailed performance data to allow the Government the ability to test and qualify

**Name of Offeror or Contractor:**

other vendors or sources. Source Control drawings and models shall be prepared IAW DI-SESS-81010E. When updating or revising existing Source Control or Vendor Control drawings and models, the Contractor shall review and update the drawings and models as needed to meet the requirements of this paragraph. The Contractor shall also verify the vendor information is up-to-date and accurate on all existing source control or vendor control drawings and models. If the Contractor finds the source is no longer valid, the Contractor shall provide a new source. Vendor Item Control and Source Control drawings shall be delivered with Unlimited rights to the drawing and associated 3D solid model. Source Controlled and Vendor Item Control drawings shall also include repair part information, to include vendor part numbers, for components of sufficient complexity that repair would be required rather than complete replacement of the component.

ID : SOWC-4624

## 2.6.7 Software

For all commercial and non-commercial software, the TDP shall include the computer software documentation IAW the latest revision of MIL-STD-31000. Software documentation shall adhere to DIDs specified in ISO/IEC 12207. For non-commercial software, the TDP shall additionally include computer software, including source code. Computer software is defined IAW the latest revision of MIL-STD-31000 definitions.

ID : SOWC-4625

## 2.6.8 Data Rights After Exercising the TDP Purchase Option

All changes to the vehicle that occur on or after the date that the TDP Purchase Option is exercised shall be incorporated into the Government TDP with Unlimited Data Rights unless specific approval is given by the Government permitting otherwise.

ID : SOWC-4626

## 2.6.9 Order of Precedence for TDP Requirements

In the event of a conflict between this TDP Purchase Option section (C.2.6) and the other TDP related sections found in Section C after execution of the option, the clauses found in Section C.2.6 shall take precedence. In the event of no conflict, all requirements shall apply unless otherwise specified in writing by the PCO on behalf of the Government.

ID : SOWC-4627

## 2.6.10 Incorporation of Changes Between Contract Award and Execution of TDP Purchase Option.

Should any changes to the TDP occur between contract award and the date the TDP Purchase Option is exercised, the Contractor shall deliver the most recent configuration which incorporates all changes into the current TDP at the TDP option price, which will not be changed. In addition, the Contractor shall deliver these new and updated parts with drawing types and rights in technical data consistent with the drawing types and rights proposed at contract award.

ID : SOWC-4186

## 2.6.11 Engineering Change Proposals (ECP)

After the completion of the PBR, the Contractor shall prepare ECPs and VECs IAW (Attachment 0020 SOWC 1217, ECP). The Windchill ECP Standard Operation Process is defined in (Attachment 0025 SOW 4186, WindChill ECP Process). Impact statements and supporting data sufficient to evaluate the change shall accompany each request to include engineering, safety, quality, cost, schedule, MANPRINT, packaging, provisioning, maintenance, TM, training.

All changes proposed by the Contractor shall be at the Contractors cost. All changes generated by the Government will be funded by the Government. Government approval of the ECP does not constitute relief from vehicle performance requirements. (B023 CDRL SOWC 1217, ECP)

## 2.6.11.1 VECP

The VECP shall be prepared and executed in the same manner as ECPs. In accordance with 52.248-1, the Contracting Officer will consider cost reductions proposed by the Contractor and will consider increasing the Contractors sharing rate up to 75% on a case by case basis. (B024 CDRL SOW 1219, Value Engineering Change Proposal).

ID : SOWC-5272

## 2.6.11.2 Request for Deviation

Contractor may request to temporarily deviate from the Product Baseline or the JLTV Purchase Description (Attachment 0001) by submitting an RFD IAW (Attachment 0021 1220, Request For Deviation). The Government is the approval authority for all RFDs. All retrofits are at the Contractor cost. (B025 CDRL SOWC 1220, RFD)

ID : SOWC-4187

## 2.6.11.3 ECP Number

The Contractor shall request ECP numbers via e-mail to the Configuration Data Management (CDM) representative. The Contractor shall utilize these numbers on an individual basis as a control identifier for ECPs and related Engineering Release Records (ERRs). Once an ECP number is assigned to the first submission of a change proposal, that number shall be retained for all subsequent submissions of that change proposal. The Contractor shall maintain records of where and when each ECP number was used. The ECP and ERR number shall consist of the Government-assigned Contractor three character alpha prefix, followed by the TACOM five-digit alpha/numeric number.

ID : SOWC-4188

**Name of Offeror or Contractor:**

## 2.6.11.4 Engineering Release Record (ERR)

The Contractor shall create, maintain, revise, and deliver product data and shall deliver ERR packages to reflect the current configuration for the complete JLTV FoV TDP for the entire contract performance period. The ERR Package is defined as the ERR form submitted concurrently with the new and revised product data for Product Baseline initial release and change release. The Contractor shall prevent premature release of product data related to an ECP until the Government has approved the ECP and subsequent ERR. Multiple ECPs on one ERR are not allowed. (B037 CDRL SOW 4188, Engineering Release Record (ERR))

ID : SOWC-4189

## 2.6.11.5 ERR Number

The Contractor shall request an ERR number from the Governments CDM representative prior to completion of drawings, models and associated lists and submission of any new or revised product data. The Contractor shall add their Government-assigned three-character prefix to the five-character alpha-numeric ERR number furnished by the Government. The resulting 8-character ERR number shall be the engineering release authority number reflected on models and in the revision block of drawings/associated lists. The ERR number used for change release shall be the same as the ECP number.

ID : SOWC-4190

## 2.6.11.6 ERR Submit/Approve

The ERR package shall contain product data reflecting the complete, Government approved product baseline configuration (incorporating all approved changes) of the JLTV FoV TDP; there shall be no missing down parts, interface data, or other deficiencies. The ERR will be approved only after all required product data has been delivered as part of the ERR package and the data is accurate, complete, and approved for release by the Government.

ID : SOWC-4191

## 2.6.11.7 PDMLink

The Contractor shall obtain access to ACE/Windchill for input of Engineering Change Proposals (ECP), Notice of Revision (NOR), and Request for Deviations (RFD). The ACE/Windchill access forms can be obtained by going to: <https://ace2.tacom.army.mil/newuser/>.

ID : SOWC-4192

## 2.6.11.8 Physical Configuration Audit (PCA)

The Contractor shall perform a Physical Configuration Audit (PCA) 90 days prior to the delivery of the TDP and it shall be witnessed by Government to validate the as-built configuration matches the PBLI and associated technical data. The initial PCA will validate the assembly level of each of the mission role variants and 100% of the component level drawings. All parts, assemblies, and sub-assemblies for PCA shall be produced using tooling, processing and inspection procedures that will be followed during production. Quality Assurance Provision (QAP) shall be audited to the extent possible to assure compatibility with the drawing. The initial PCA shall be considered complete when all the deficiencies identified are corrected, reviewed, and approved by the Government. The corrections shall be at no cost to the Government. The Government reserves the right to stop acceptance of TDP if the PCA is not completed within the schedule specified in the approval PCA plan. All costs associated with the contract or failure to complete the PCA as scheduled in the approved PCA plan shall be borne by the Contractor. Upon close out of the initial PCA, the TDP will be put under formal CM. For planning purposes, this meeting is anticipated to be a 45 day event.

ID : SOWC-4193

## 2.6.11.9 PCA Plan

The Contractor shall submit a detailed PCA Plan 45 days prior to the TDP Option PCA. Hardware presented at the PCA shall be built to the current baseline at the time of the PCA. (B030 CDRL SOWC 2926, PCA Plan)

ID : SOWC-4194

## 2.6.11.10 Configuration Audit Summary Report (CASR)

The Contractor shall deliver a Configuration Audit Summary Report documenting all the PBLI deficiencies and corrective actions at time of the TDP Option PCA. The Contractor shall identify action items and address each issue to include resulting close-out action.

In the event deficiencies are not resolved and corrected, the Contractor shall be deemed to have failed to make delivery within the meaning of the "DEFAULT" clause of this contract. (B021 CDRL SOWC 1210, Configuration Audit Summary Report)

ID : SOWC-1517

## 3 SYSTEM TECHNICAL SUPPORT

ID : SOWC-2825

## 3.1 GENERAL

The Contractor shall be required to undertake one or more of the activities specified herein, via System Technical Support (STS) Work Directives written by the Government. All work conducted under the STS effort shall be performed only as specified in the work directives approved by the Procuring Contracting Officer (PCO). The Contractor shall provide engineering, logistics and related technical support functions for JPO JLTV. This effort applies to all phases of the vehicle life cycle. As an independent Contractor, and not as an agent of the U.S. Government, the Contractor shall furnish the supplies and services necessary to accomplish the efforts required herein. The Contractor's responsibilities shall include maintaining control of Subcontractor efforts to ensure Government requirements are met. (Attachment 0032 SOWC 2825, Change Proposal Process)

**Name of Offeror or Contractor:**

ID : SOWC-2869

## 3.1.1.1 GFE Integration

The Contractor shall integrate all applicable Government Furnished Equipment and Government Furnished Information provided IAW the GFE/GFI List (Attachment 0027 GFE/GFI List).

Integration shall include software and hardware, providing space, power, weight allocation, heat rejection, cabling & cableways, through hull connections, and all other hardware & software interfaces necessary to meet the requirements as stated in the JLTV Purchase Description (Attachment 0001).

Dependent on design, the Contractor may be able to leverage complete GFE kits to fully perform integration, if not, the Contractor shall provide new integration items (e.g. brackets, wiring) and deliver associated technical data on all such integration items.

The Contractor shall update the CSIL with any additional GFE systems as required by the work directive.

ID : SOWC-2826

## 3.1.2 Applicable Document

The Contractor shall prepare technical data in the format and scope specified in the applicable DID's. This information shall be furnished IAW the requirements, quantities, and schedules set forth in the CDRL. Data shall be submitted in an electronic format compatible with Microsoft programs (e.g. Word, Access, Excel, Power Point) unless otherwise specified in the SOW or CDRL. 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.

ID : SOWC-2828

## 3.1.3 Project Status Meetings

The Contractor shall conduct a STS Start of Work Meeting at the Contractor's facility within 30 days after contract award. At a minimum, the Contractor and Government will discuss the STS and ECP administrative process. For planning purposes this meeting is anticipated to last no more than one day. This meeting may be held in conjunction with the overall Start of Work Meeting.

ID : SOWC-4144

## 3.1.4 Monthly Review

The Contractor shall conduct informal STS project status meetings with the Contracting Officer Technical Representative (COTR) on a monthly basis to provide status accounting of STS work directives. The purpose of the meetings shall be to review status and progress of all projects.

ID : SOWC-4145

## 3.1.4.1 Work Directive Status Accounting

The Contractor shall identify STS project numbers and titles, start of work date for each project, original and current scheduled completion date, rationale for change in project completion date, Contractor's efforts during reporting period and other information deemed essential. Meeting location, time and attendance shall be coordinated with the COTR. (B033 CDRL SOWC 4145, STS Work Directive Status Accounting)

ID : SOWC-2831

## 3.2 SYSTEM ENGINEERING and TECHNICAL EFFORT DESCRIPTION

The Contractor shall perform system engineering to assure that satisfactory solutions are provided to mitigate design issues. Satisfactory solutions are those which maintain compatibility of all physical, functional and technical interfaces with the established system design and definition. This shall be accomplished without degradation to the established JLTV FoV system design unless otherwise approved by the Government.

The Contractor shall conduct failure analysis to identify root cause for failure of items identified by the Government. The Contractor shall conduct technical studies to correct known or potential deficiencies, to accomplish product improvements, to accomplish cost reductions, and to maintain current the 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 manufacturers and major vendors to resolve issues, ensure continued producibility.

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 conditions), and subsequently recommend Engineering Change Proposals for current and future production versions of the contract item and modifications thereof.

The Contractor shall prepare and submit technical reports identifying the results of investigations or evaluations. This shall include recommendations for future course(s) of action as well as the supporting rationale and documentation. When the report recommends an Engineering Change Proposal (ECP), the report shall also address the potential impact on Integrated Logistics Support (IPS) (initial or

**Name of Offeror or Contractor:**

follow-on provisioning, technical manuals, TMDE, tools, training) as well as any anticipated cost and weight associated with the change.

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.

ID : SOWC-5102

**3.2.1 Work Directive Response Considerations**

The Contractor shall include in its STS work directive responses (in addition to the requirements detailed in the individual work directives) considerations for cost, schedule, safety, environmental, and MANPRINT aspects in the proposed solution. At minimum, the directive shall consider impacts of human factors engineering, manpower, personnel, training, health hazards, and soldier survivability. The operation and maintenance aspects of the solution shall be considered under all required operational conditions.

ID : SOWC-551

**3.2.1.1 Design for Manufacturability**

The Contractor shall perform assessments of Design for Manufacturability (DFM) during LRIP that include Digital Mockup Assembly (DMA) reviews, feasibility studies, and predicted assembly times for the JLTV. The Contractor shall show how the JLTV FoV has been designed for full rate production Manufacturability per the Manufacturing Development Strategy (reference CDRL Manufacturing Development Strategy) by using methods to simulate full rate production manufacturing processes (e.g. DMA methods, including clearances and tolerances for tooling, personnel, and part installation). This information shall be available to the Government and discussed at IPT meetings as well as major reviews IAW the IMP.

ID : SOWC-4487

**3.3 INTEGRATED PRODUCT SUPPORT**

ID : SOWC-4489

**3.3.1 IPS Program**

The Contractor shall support the Government by providing new and updated logistics support analysis and IPS products in its efforts to sustain the in-service JLTV FoV. Activities shall include sustainment engineering to continue design improvements, expedited support to address operational requirements, and analytical assessments to redress JLTV FoV reliability and maintainability performance concerns or issues.

ID : SOWC-4490

**3.3.2 IPS Program Manager**

The Contractor shall designate an IPS Manager to ensure program objectives are achieved within program cost and schedule. Additionally, the IPS Manager shall possess the authority to manage, direct, execute, and control all Product Support Elements (PSE) under contract. The Contractor shall present a plan for managing and executing the IPS program. The Contractor shall conduct meetings with subject matter experts from the Government and Contractor to discuss all IPS elements. (C065 CDRL SOWC 4490, IPS Program Management Plan).

ID : SOWC-4492

**3.3.2.1 Dedicated Hardware**

The Contractor shall ensure sufficient quantities of dedicated hardware to include GFE vehicles, components, repair parts, consumable supplies, tools, and support equipment are available to accomplish all IPS development, reviews, validations, verifications, and logistics demonstrations (LDs).

ID : SOWC-4493

**3.3.2.1.1 Expendable or Consumable Items**

When provisioning expendable and consumables, the Contractor shall select expendable or consumable items from the military supply system. If an item cannot be located, or the Army or USMC is not listed as a user, the Government shall be notified and shall direct the Contractor if provisioning actions are required.

ID : SOWC-4494

**3.3.2.1.2 Existing Government tools and Test, Measurement, Diagnostic Equipment**

The Contractor shall notify the Government upon identification of any new special tools and TMDE. Existing Government tools and TMDE shall be utilized and introduction of new special tools and TMDE will require Government approval. Contractor recommendations for introducing new special tools and TMDE into the Government's maintenance and supply system shall require supporting justification identified by the Contractor's supportability analysis and is subject to approval for use by the Government's IPS IPT. If approved, the Contractor shall proceed with development of related support requirements. If disapproved, the Contractor shall provide alternative support methods using existing Government tools and TMDE that are authorized to JLTV users, at no additional cost to the Government. The Government will use Maintenance Support Device (MSD) Vehicle Automated Diagnostics System (VADS) for interactive fault isolation and Interactive Electronic Technical Manuals (IETMs).

ID : SOWC-4495

**3.3.2.2 IPS Master Schedule**

**Name of Offeror or Contractor:**

The Contractor shall develop and maintain an IPS Master Schedule to manage the JLTV IPS program through completion of the contract. The Contractor shall incorporate any approved changes to the schedule into the JLTV IMS (C066 CDRL SOWC 4495, IPS Master Schedule).

ID : SOWC-4499

**3.3.3 Maintenance Planning**

ID : SOWC-4500

**3.3.3.1 Maintenance Plan**

The Contractor shall not degrade the current JLTV FoV maintenance plans documented by the Maintenance Allocation Chart (MAC) in JLTV FoV Technical Manuals. Additional maintenance planning necessitated from design changes, to include updates and modifications shall be based on a two level maintenance structure. The Contractor shall determine the most effective and efficient procedures for performing maintenance, identify the extent of maintenance action for each repairable item, and identify the maintenance level to perform maintenance tasks. Variables, such as repairable item price, down-parts price, failure rate of repairable item, labor costs, costs of special tools and TMDE, and test program costs shall be considered for these determinations. In determining maintenance level, the Contractor shall consider skill level, availability of tools at each level, and time.

ID : SOWC-4501

**3.3.4 Logistics Support Analysis and Logistics Product Data Objectives**

Logistics Support Analysis (LSA) provides a foundation for the Integrated Product Support (IPS) program by analyzing the system design and documenting source data to support the development and the delivery of the vehicle's system product support packages such as maintenance task lists, training support, technical publications, and initial provisioning package. PowerLOG-J shall serve as the JLTV IPS programs logistics data management tool. It will be used to develop, evaluate, review, and integrate logistics data for materiel systems. LPD comprises the support and support-related engineering and logistics data acquired or generated as a result of LSA conducted during the JLTV FoV design, development, and initial production and fielding phases. LPD enables the planning and execution of maintenance support strategies, including the identification of resources such as personnel, support equipment, facilities and transportation requirements, and initial provisioning package, cataloging, and item management. It also supports the management and tracking of design changes to the product baseline. The Contractor shall follow good data management principals to ensure the proper identification, definition, preparation, control, archiving, and disposition of data required to execute this contract. GEIA-859, Data Management, shall be used as guide.

ID : SOWC-4502

**3.3.4.1 Logistics Support Analysis and Logistics Product Data Tasks**

The Contractor shall:

- 1) Perform Logistics Support Analysis (LSA) to enable the development of Logistics Product Data (LPD) to support Operations and Maintenance planning and the deployment of the JLTV FoV and Support Equipment.
  - 2) Utilize the most current version of the PowerLOG-J database application to maintain and update LPD.
  - 3) Make available to the Government LPD exported from the PowerLOG-J database.
  - 4) Ensure LPD is available to develop, validate and deliver logistics support packages for JLTV FoV at the time of its scheduled use for testing, training, demonstrations, evaluations or fielding as required by this contract.
  - 5) Develop a Government-approved plan to manage the development and delivery of LPD during the contract period and include the LPD delivery milestones on the IPS Master Schedule.
  - 6) Analyze the data resulting from testing, manufacturing processes, quality assurance, Logistics Demonstration, and any other evaluations of the JLTV FoV.
  - 7) Update LPD within the PowerLOG-J database to ensure LPD accurately reflects the results and findings of these activities.
- (C068 CDRL SOWC 4502, Logistics Product Data (LPD))  
(C067 CDRL SOWC 4502, Logistics Product Data Logistics Product Data (LPD) plan)

ID : SOWC-4503

**3.3.4.2 Level of Repair Analysis**

The Contractor shall develop Level of Repair Analysis (LORA) using the latest version of the Computerized Optimization Model for Predicting and Analyzing Support Structures (COMPASS). The Contractor shall continue to conduct a Level of Repair Analysis (LORA) employing industry best practices and including all system-level repairs, and all subsystem, assembly, and subassembly level candidates, including kits, for analysis. The Contractor shall incorporate the Service Components maintenance philosophies, capabilities, and respective Military Occupational Specialty (MOS) skill set(s). All associated LORA LPD shall be input, maintained and updated in the PowerLOG-J application. The LORA Report shall include all COMPASS input and output data files to include COMPASS ACCESS database tables used in the assessment. (C069 CDRL SOWC 4211, Level of Repair Analysis Report)

ID : SOWC-4504

**3.3.4.3 Maintenance Task Analysis**

The Contractor shall perform or update Maintenance Task Analysis (MTA) on the JLTV FoV IAW TA-STD-0017 Activity 12. MTA shall encompass all operator, maintainer, and support personnel tasks as identified by LORA, Reliability Centered Maintenance (RCM) Analysis, Failure Modes Effects and Critically Analysis (FMECA), Mission Task Analysis, and other similar analyses. MTA shall be performed on the approved JLTV FoV baseline and shall reflect the results of the latest RAM, safety, health hazards, and human factors engineering analyses. The Contractor shall update the MTA to reflect changes to the product baseline and the results and outcomes from testing, training, quality, manufacturing, Log Demo, and other JLTV FoV evaluations conducted throughout the contract period of performance. All Logistics Product

**Name of Offeror or Contractor:**

Data Logistics Product Data (LPD) developed from the MTA effort will be input, maintained, and updated in the PowerLOG-J system. In performance of the MTA, the Contractor shall provide the following LPD:

- (a) All LPD identified in TA-STD-0017 Activity 12 except activities 12.5 and 12.6.
- (b) Sequential narrative instructions and procedures for all tasks below depot level maintenance including maintenance source data for Technical Manuals (TMs) and Interactive Electronic Technical Manuals (IETMs).
- (c) Support requirements for performing each task. These shall include Military Occupational Specialty (MOS), skill levels, tools, support equipment, Automatic Test Equipment (ATE), Test Program Sets (TPS), and repair parts.

ID : SOWC-4505

3.3.4.4 Reliability Centered Maintenance Program

The Contractor's RCM Program shall be compliant with SAE JA-1011 and SAE JA-1012. RCM analysis shall be conducted and documented IAW SAE JA-1011 section 5 and its associated sub-sections. The RCM analysis shall be conducted at the same level of detail that the JLTV FoV and associated kits shall be. Results of the RCM analysis shall provide the evidence of need for all recommended PMCS tasks. The Contractor shall utilize the results of testing and Logistics Demonstrations to validate RCM analysis data and shall update. The Contractor shall utilize PowerLOG-J to input, maintain, and update all preventative and corrective maintenance task and reliability related Logistics Product Data Logistics Product Data (LPD) resulting from RCM analysis of the JLTV FoV, and shall provide all supporting documentation (information worksheets and decision worksheets) resulting from the RCM analysis when submitting RCM Reports as required by Reliability Centered Maintenance Program (RCM) Report. (C070 CDRL SOWC 4505, Reliability Centered Maintenance Program (RCM) Report )

ID : SOWC-4507

3.3.4.5 Basic Issue Items, Components of End Item and Additional Authorized List

The Contractor shall identify changes or updates to the Basic Issues Items (BII), Additional Authorized List (AAL) and Components of End Item (COEI) required to support the configuration of the JLTV FoV. The Contractor shall input changes or updates in the PowerLOG-J system.

ID : SOWC-4508

3.3.4.6 Failure Modes Effects and Critically Analysis

The Contractor shall perform Failure Modes Effects and Critically analysis (FMECA) on the product baseline(s) for the JLTV FoV. The FMECA shall be IAW Attachment 0036 (SOWC 4220, FMECA), performing tasks 101, 102, and 103, using the "Hardware Approach." The Contractor shall develop the FMECA from the DFMEA to the indenture level that meets the maintenance strategies of the military services, or as determined by the Government at the SOWM. All FMECA findings shall be used to develop Technical Manuals and Provisioning data. All FMECA LPD shall conform to GEIA-STD-0007 and shall be input, maintained, and updated in the PowerLOG-J system

ID : SOWC-4509

3.3.4.7 Support Equipment

ID : SOWC-4510

3.3.4.7.1 Special Tools and Test Equipment Development, Validation and Documentation

The Contractor shall develop, maintain, and update any Special Tool (ST) and Test Equipment (TE) technical documentation for the JLTV FoV. The Contractor shall document all Logistics Product Data (LPD) associated with this effort. All LPD shall be input, maintained and updated in the PowerLOG-J database application. The Contractor shall ensure sufficient quantities of validated ST/TE and common tools and support equipment are available for conducting the Log Demo, Technical Manual validations, MOT&E and I&KP Training.

ID : SOWC-4511

3.3.4.7.2 Automated Test Equipment

The Contractor shall develop embedded diagnostics such as Built-In Test (BIT), Fault Isolation Test (FIT) and Built-In Test Equipment for JLTV FoV on-system maintenance troubleshooting and fault isolation. For faults or failures that cannot be consistently and effectively isolated using embedded diagnostics, to include the failure or unavailability of the onboard diagnostics device, the Contractor shall ensure manual fault isolation and troubleshooting procedures are included in the IETM(s). Any procedures requiring an at-platform support device must be compatible with MSD, VADS, and EMSS. Any procedure requiring TMDE must use existing DoD field-authorized common and special support equipment. Documentation of fault isolation and troubleshooting procedures shall be IAW SOWC-4212.

ID : SOWC-4512

3.3.4.7.3 Sets, Kits, Outfits and Tools

For tools contained within existing DoD field-authorized common and special support equipment kits, sets, or outfits the Contractor shall identify and document each specific tool and its associated set, kit, or outfit as a part of the maintenance task analysis IAW SOWC-4212

ID : SOWC-4513

3.3.5 Provisioning Program

ID : SOWC-4514

**Name of Offeror or Contractor:**

## 3.3.5.1 Provisioning Guidance Conference

The Provisioning Guidance Conference (PGC) shall be held immediately following the Technical Publication Guidance Conference. The purpose of the PGC is to ensure that the Contractor has a clear understanding of the contractual provisioning requirements (reference SOWC 4247) and to identify and reinforce the requirement for accurate, complete, and timely submission of provisioning data and information. The Contractor shall present the tentative provisioning schedule (reference SOWC 4205).

ID : SOWC-4515

## 3.3.5.2 Provisioning Conferences

The Contractor shall host the first Provisioning Conference and Logistics Support Analysis Records (LSAR) Review 90 calendar days after the Provisioning Guidance Conference to verify the LSA 036 records, Engineering Data for Provisioning (EDFP), Repair Parts and Special Tools List (RPSTL) and part screening data, and any other contractor related data used to support the LSAR. The Contractor shall host subsequent Provisioning Conferences and LSAR Reviews once per quarter, or on dates mutually agreed to by the parties. The Contractor shall conduct a quarterly reconciliation of the Provisioning Master Record (PMR) & Logistics Product Data (LPD) database and update the provisioning records.

ID : SOWC-4516

## 3.3.5.3 Provisioning Plan and Analysis

The Contractor shall provide an updated Provisioning Plan. (C071 CDRL SOWC 4516, Provisioning Plan)

ID : SOWC-4517

## 3.3.5.4 Provisioning Parts List

The Contractor shall develop, maintain, and deliver Provisioning Parts Lists (PPL) IAW Attachment 0043 SOWC 4251.1, Provisioning Requirements Statement, and Attachment 0044 SOWC 4251.2 Data Requirements Form for Acquisition Requirement Package (ARP), and DID DI-SESS-81715 (except for 2. Format. Format will be GETA-STD-0007).

The Contractor shall develop the initial PPL Logistics Product Data (LPD) that reflects the JLTIV FoV and associated support equipment's product baselines. The PPL shall include all repairable and consumable 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 and equipment. Separate Provisioning Contract Control Numbers (PCCNs) shall be provided for each system/item. The PPL shall be structured in a top-down breakdown disassembly sequence. Indenture Codes shall be in Alpha Character format. The Provisioning Line Item Sequence Number(s) (PLISN) range of a PPL shall be grouped in ranges by Functional Group Coding (FGC). For example, FGC 01 will have a PLISN Range of AAAA thru A999, FGC 02 will have a PLISN Range of BAAA thru B999, FGC 03 will have a PLISN Range of CAAA thru C999. The Contractor shall make the quantity per assembly, and the quantities per end item, the same to ensure compatibility with the US Army Logistics Modernization Program (LMP). The Contractor shall ensure the ability to generate a separate PPL for each category of JLTIV FoV platform. The Contractor shall input, maintain, and update all PPL LPD in the PowerLOG-J system and ensure all LPD is available for the Government to output the PPL via the PowerLOG-J LSA 151 report and the LSA 036 report without errors. The Contractor shall ensure that LPD are compatible with LMP and can be transferred electronically to the Government for successful updating of the Provisioning Bill of Material (PBOM).

ID : SOWC-4518

## 3.3.5.5 Engineering Data for Provisioning

Engineering Data for Provisioning (EDFP) is technical and engineering Logistics Product Data (LPD) which provides definitive identification of dimensional, materiel, mechanical, electrical, or other physical characteristics, locations, and functions of the item. EDFP is used to describe parts/equipment and consists of data such as specifications, standards, drawings, photographs, sketches and descriptions. EDFP includes assembly and general arrangement drawings, schematic drawings, schematic diagrams, and wiring and cable diagrams necessary to indicate the physical characteristics, locations and/or functions of the item. EDFP must be in the English language. Foreign language EDFP not translated into the English language will not be accepted by the Government.

EDFP shall be developed IAW DI-SESS-81874 and shall provide LPD for the following:

- 1 - Technical Identification of items for maintenance support considerations
- 2 - Preparation of item identification for the purpose of assigning National Stock Numbers (NSNs)
- 3 - Review for item entry control
- 4 - Standardization
- 5 - Review for potential interchangeability and substitutability
- 6 - Item management coding
- 7 - Preparation of allowance/issue lists
- 8 - Source, Maintenance, and Recoverability (SMR) code verification

The Contractor shall input, maintain, and update EDFP LPD for the JLTIV FoV and identified support equipment in the PowerLOG-J system. Under this effort the Contractor shall:

- 1 - Deliver EDFP concurrently with the Provisioning Parts List (PPL) to document the As-Built JLTIV FoV and identified support equipment.
- 2 - Maintain electronic access to Military and Federal Specifications and Standards.
- 3 - Submit EDFP for all items identified with a P in the first position of the Source Maintenance and Recoverability (SMR) code which do not have National Stock Numbers (NSNs) assigned.
- 4 - Identify, and input into PowerLOG-J, all cataloging information associated with JLTIV FoV items that do have NSNs assigned.
- 5 - Cite all approved vendor's Commercial and Government Entity (CAGE) codes. The CAGE codes shall be typed, stamped, or legibly written

**Name of Offeror or Contractor:**

with an authorized signature and date on drawings. Drawings for components with other than unlimited rights to the Government can be envelope drawings or list drawings. All drawings shall be input, updated and maintained in the PowerLOG-J system.

6 - For items not supported by Government recognized specifications or standards, deliver EDFP in the following order of precedence:

- a) Technical data equivalent to approved product drawings as defined under MIL-DTL-31000C
- b) Technical data equivalent to in-process/incomplete product drawings as defined under MIL-DTL-31000C;
- c) Commercial drawings, commercial manuals, catalogs, catalog descriptions, sketches or photographs with brief descriptions of dimensional, materiel, mechanical, electrical, or other descriptive characteristics.

ID : SOWC-4519

**3.3.5.6 Cataloging Input**

The Contractor shall update the LPD to reflect the results of cataloging actions, including changes to item names and nomenclature. Inconsistencies in item names and nomenclature between the drawings and Technical Publications shall be resolved in LPD and the Technical Publications before final Technical Publications are delivered to the Government.

ID : SOWC-4520

**3.3.5.7 Provisioning and Other Pre-procurement Screening Data**

The Contractor shall conduct a pre-procurement screening for all items selected as repair parts and provide screening results to the Government. The Contractor shall use Government or industry association, specifications, drawings, or standards numbers as the preferred reference number. The standards include Federal (FED), Military (MIL), Joint Army and Navy (JAN), Air Force and Navy (AN), National Electrical Manufacturers Association (NEMA), Society of Automotive Engineers (SAE). The Contractor shall perform this screening to select valid part numbers for the PBOM. All vendor source information identified on the drawing will be screened by the Contractor. The Contractor shall update the Contractors provisioning data files with current part numbers that have NSNs as results of pre-procurement screening for standardization and component selection. (C072 CDRL SOWC 4520, Pre-Procurement Screening Data)

ID : SOWC-4521

**3.3.5.8 Provisioning Bill of Material Feedback**

The Contractor shall maintain and update the JLTIV FoV LPD database using the Provisioning Technical Documentation (PTD) Report provided by the Government. A PTD report will be provided Government after each provisioning conference and subsequent upload to the Government LMP database.

ID : SOWC-4522

**3.3.5.9 Provisioning Quality Acceptance Standards**

The Contractor shall adhere to the most recent version of quality standards outlined in GEIA-STD-0007, GEIA-HB-0007, and TA-HB-0007. During the term of the contract, changes may occur that are due to LMP or process requirements. The Contractor shall make appropriate provisioning changes identified by the Government in the immediately preceding PowerLOG-J update.

ID : SOWC-4523

**3.3.5.10 Provisioning Technical Data Guidance**

ID : SOWC-4524

**3.3.5.10.1 Next Higher Assembly Provisioning List Item Sequence Numbers and Overhaul Quantities**

The Contractor shall enter within PowerLOG-J the Overhaul Quantities (OVHL QTY) for each item, IAW the most recent version of the GEIA-STD-0007:

- (a) Identify the immediate Next Higher Assembly (NHA) Provisioning List Item Sequence Numbers (PLISN). Enter an OVHL QTY.
- (b) Using the top down break down structure, identify all subsequent assemblies preceding the down part. Enter NHA PLISN and OVHL QTY.
- (c) Identify the model record PLISN(s) as a NHA PLISN and enter an OVHL QTY, if called for by the Government.

ID : SOWC-4525

**3.3.5.10.2 Maintenance Replacement Rates**

The Contractor shall use results from the RAM program (reference SOWC 192) to determine the Maintenance Replacement Rates I and II and enter the data within PowerLOG-J. These rates may vary by variant and mission package configuration of the end item. The Maintenance Replacement Rate (MRR) shall be a consolidation of all known RAM information. The Contractor shall develop rationale and methodology for determining MRRs, IAW the most recent versions of GEIA-STD-0007, GEIA-HB-0007, and TA-HB-0007 using the following data:

- (a) Engineering Data
- (b) Warranty Data
- (c) Testing and Developmental Documentation
- (d) Historical Data on an analogous piece of equipment. When using historical data, the MRR II will be, at least 2.5 times greater than that of MRR I.

ID : SOWC-4526

**3.3.5.10.3 Essentiality Coding and Line Replaceable Unit**

The Contractor shall recommend the Essentiality Code (EC) for spare and repair parts IAW AR 700-18 section 4-4. Spares and repair parts deemed as having an EC value of "1" shall automatically be considered a Line Replaceable Unit (LRU) and shall be reflected as such in all affected Logistic Product Data (LPD) (C068 CDRL SOWC 4269, LPD). EC LPD, and any affected LRU determination shall be input,

**Name of Offeror or Contractor:**

maintained, and updated in the PowerLOG-J system.

ID : SOWC-4527

**3.3.5.10.4 Provisioning Parts List Pricing Data**

The Contractor shall obtain and input Logistics Product Data (LPD) (reference SOWC 4269) of the actual or estimated realistic pricing for all items identified in the Provisioning Parts Lists (PPL) (reference SOWC 4517) into the PowerLOG-J system. Determination of pricing data shall be in the following order of precedence:

- a) OEM pricing
- b) Estimated pricing from a like item

ID : SOWC-4528

**3.3.5.11 Provisioning Reports and Lists**

The Contractor shall ensure that Logistics Product Data Logistics Product Data (LPD) for all systems, subsystems, parts, components, and tools that comprise the JLTV FoV and support equipment are correctly identified and updated so as to allow the generation of the following sub-reports without error from within the PowerLOG-J LSA-036 report:

- a) Provisioning Parts List (PPL)
- b) Long Lead Time Items List (LLTIL) with items identified IAW section 10.3.3 of DI-IPSS-81285 with procurement times greater than 90 days.
- c) Repairable Items List (RIL) with items identified IAW section 10.3.4 of DI-IPSS-81285
- d) Tools and Test Equipment List (TTEL) with items identified IAW DI-IPSS-81285 section 10.3.6. Additionally, the list shall identify those required tools included in the Army Standard Automotive Tool Sets and corresponding Marine Corps tool sets.
- e) Common and Bulk Items List (CBIL) with items identified IAW DI-IPSS-81285 sections 10.3.7 and 10.3.7.2
- f) System Configuration Provisioning List with items identified IAW DI-IPSS-81285 section 10.3.10 and 10.3.10. 1

The Contractor shall update LPD to reflect the results of Provisioning Conferences, USG reviews, or other scheduled evaluations. The Contractor shall input, maintain and update LPD in the PowerLOG-J system (C068 CDRL SOWC 4528, LPD)

ID : SOWC-4529

**3.3.6 Technical Publications**

ID : SOWC-4530

**3.3.6.1 License (Release) for Copyrighted Deliverables**

The terms of subsection (d) of both DAFRS 252.227-7013 and 252.227-7014, already incorporated into the contract, shall apply to both the Contractor and all subcontractors, and the Contractor is responsible to ensure that all these terms flow down to all subcontractors. In addition to the terms in subsection (d), additional terms include the following.

In the event no copyrighted information is used in a deliverable under this contract, the Contractor shall certify this in writing. The PCO shall review the copyright license (release) documentation before the copyright material is released. This release/letter must be delivered with or before the Final Reproducible Copy (FRC) it covers. An FRC will be considered incomplete without this release/letter. The Contractor shall package and deliver all source material, defined as operating plans, standard procedures, computer programs and residual material, source codes, computer disks, computer tapes, and all other media containing digital files developed to fulfill the requirements of this contract. (C073 CDRL SOWC 4530, Copyright Release)

ID : SOWC-4531

**3.3.6.2 Technical Publications Program Objectives**

JLTV Technical Publications Program objective is to develop, change, revise and deliver JLTV publications to support the JLTV FoV. The Contractor shall develop, change, revise and deliver technical publications for Operator, Field and National Maintenance Work Requirement (NMWR) level tasks IAW AR 25-30 (reference SOWC 4539, Technical Publications). Content for technical publications shall be based upon the results of the Maintenance Task Analysis (MTA) and associated support Logistics Product Data Logistics Product Data (LPD) contained within PowerLOG-J, and shall support the two (2) Level Maintenance standard. These publications can be used alone or in conjunction with other publications developed by Contractor. The Contractor shall develop, change, revise and deliver JLTV technical publications to support Testing, Log Demo, Verifications and Material Release. The Contractor shall ensure that all technical publications (IETMs, TMs, TBs) delivered match the configuration of the vehicles they are provided to support. The Contractor shall obtain Electronic Maintenance System Next-Generation (EMS NG) software required for the development, and submission of software problem tickets using the following link: <https://oneil.service-now.com/ems/> .

Technical publications shall be developed using additional military standards or policies to be included in the Technical Publications Guidance conference. JPO JLTV technical publications shall be developed, changed, or revised and delivered IAW MIL-STD-40051-1B, MIL-STD-40051-2B, MIL-PRF-32436 or MIL-STD-38784 and:

Content Selection Matrix - TABLE A-II Operators and Combined Operators/Maintenance Requirements Matrix (-10) (Attachment 0037 4223.1)

Content Selection Matrix - TABLE A-II Operators and Combined Operators/Maintenance Requirements Matrix (-13/-13&P) (Attachment 0040 4223.4)

**Name of Offeror or Contractor:**

Content Selection Matrix - TABLE A-XXI Field and Sustainment Maintenance Manual Requirements Matrix (-23P) (Attachment 0039 4223.3)

Content Selection Matrix - TABLE A-VII DMWR/NMWR Requirements Matrix (Attachment 0042 SOWC 4237)

Content Selection Matrix TABLE A-XVI BDAR Requirements Matrix (Attachment 0052 SOWC 4531)

ID : SOWC-4532

**3.3.6.3 Publications Meetings**

The Contractor shall host a Publications Contract Start of Work meeting, monthly LOG meetings (location to be decided by Government), Logistics Demonstration (Log Demo) Start of Work meeting, Validation Start of Work meeting, Verification Start of Work meeting, EMS NextGen software meetings. The Contractor shall provide minutes of the meeting (reference A002 CDRL SOW 36, Minutes).

ID : SOWC-4533

**3.3.6.4 In-Process Reviews (IPRs)**

The Contractor shall host In-Process Reviews (IPRs) as specified in the work directive to discuss all IPS related work effort. The Contractor shall brief and display portions of work accomplished to date for initial meeting and work accomplished since last IPR, answer questions about Contractor work processes, provide records of quality assurance reviews, and respond to Government comments regarding publications processes or work samples. The IPRs can be used to clarify requirements, provide guidance to the Contractor and to ensure the IPS data conforms to the SOW.

ID : SOWC-4534

**3.3.6.5 Technical Publications Guidance Conference**

The Contractor shall host a Technical Publications Guidance Conference IAW the Work Directive (WD). The purpose of this meeting is to review the publications requirements specified in the WD, establish lines of communications, and address Contractor's questions. The Contractor shall present the tentative publications schedule (reference SOWC 4495). The Contractor shall provide minutes of the meeting (reference A002 CDRL SOW 36, Minutes).

ID : SOWC-4535

**3.3.6.6 Technical Manual Book Plan**

The Contractor shall develop a Book Plan that provides the Government with a detailed overview of the proposed scope of the manual in compliance with the contract and applicable Technical Manual Contract Requirement (TMCR). The plan is to be submitted to the Government for review and acceptance prior to the development of the TMs IAW C074 CDRL SOWC 4535, TM Book Plan). The plan shall be developed in Microsoft Word or Government approved software and shall list all work packages included in each publication. This plan shall clearly define the intended purpose of each IETM, TM, and TB, delineating the scope of each publication and explaining the interfaces and overlaps between or among the publications. (C074 CDRL SOWC 4525, TM Book Plan)

ID : SOWC-4536

**3.3.6.7 Technical Publications Interactive Electronic Technical Manual (IETM) Content Plan**

The Contractor shall develop Interactive Electronic Technical Manual (IETM) Content Plan that provides the Government with a detailed overview of the proposed scope and functionality of the IETM in compliance with the contract. The plan is to be submitted to the Government for review and acceptance prior to the development or revision of the IETM. (C075 CDRL SOWC 4536, IETM Content Plan)

ID : SOWC-4537

**3.3.6.8 Technical Publications Development Schedule and Status Report**

The Contractor shall provide a Technical Publications Schedule and Status Report to the Government. The contractor shall make timely corrective action in the event discrepancies are identified. This data item shall not be procured when this information is provided by any other report supplied by the same Contractor. This document shall include critical tasks involved with all publications development, for example; key publication milestones, such as validations, IPRs, verifications, PTM reviews, publication deliveries. This Report shall also be included on the JLTV IPS Master schedule. Action Items shall be addressed and resolutions presented during the next TM review. Comment and action items from TM reviews shall be summarized in the Technical Publications Schedule and Status Report (C076 CDRL 4537 Technical Manual Schedule and Status Report).

ID : SOWC-4538

**3.3.6.9 Electronic Maintenance System (EMS) Next Generation (NG) Software Report**

The Contractor shall provide the Government with a Technical Publications Software and Status Report. This document shall include a list of both critical tasks and errors occurring in the development of the technical publications, including tracking of errors, status of error reports, and communications with Subcontractor(s). The report shall also include embedded diagnostics that are subject to software development and test, not IETM specifications. (C077 CDRL SOWC 4538, EMS NG Software Schedule and Status Report)

ID : SOWC-4539

**3.3.6.10 Technical Publications**

The Contractor shall provide Technical Publication deliveries for each manual specified by the work directive for Government review. These shall be in the form of a Preliminary Technical Manual (PTM) or a Final Reproducible Copy (FRC). These shall include resolution of all comments and recommendations made as a result of all testing, Government reviews, Contractor validation, Government verification and Log Demo. The Contractor shall provide additional updates and reviews based on results of Government's PTM/FRC review(s). (C078 CDRL 4359, Technical Publications)

**Name of Offeror or Contractor:**

The Contractor shall provide a Preliminary Technical Manual (PTM1). The PTM1 delivery shall be provided for Government review 30 days prior to Log Demo or verification and include the results of validation. The Contractor shall provide a Preliminary Technical Manual (PTM2). The PTM2 delivery shall be provided for Government review 30 days after Logistics Demonstration (LD) verification events and include the results of these events. Final Reproducible Copy (FRC). For FRC delivery, the Contractor shall provide complete publication(s) that shall be representative of the final product. Contents must be clearly legible with content and format as for final. The Contractor shall deliver incremental and accumulative Technical Publications review packages for each JLTV FoV publication.

ID : SOWC-4540

**3.3.6.10.1 Technical Publications Quality Assurance Plan**

The Contractor shall provide to the Government TM and IETM information which is complete in content, technically accurate, and useable by target audience. The TM and IETM shall match the vehicle configuration as defined by the logistics configuration freeze. To meet these requirements, the Contractor shall develop and use a QA Plan that guarantees:

(1) Periodic QA reviews of TM content by persons different than those preparing the TM.

(2) Maintenance of QA records detailing the findings of those reviews.

(3) 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 throughout the duration of the programs efforts. The Contractor shall prepare and deliver their QA Plan for Government review and approval. (C079 CDRL SOWC 4540, Technical Publications Quality Assurance Plan)

ID : SOWC-4541

**3.3.6.10.2 Technical Publications Validation Plan**

The Contractor shall provide to the Government a Technical Publications validation plan. The Technical Publications Validation Plan defines the Contractor's methods, procedures, controls, and resources that shall be used to accomplish validation of the TM(s) being procured and developed. The Technical Publications validation plan shall be submitted to the Government for review and acceptance prior to development of the TM(s). The Contractor shall conduct validation of operator and maintenance tasks. The TMs shall be validated for completeness, accuracy, clarity, usability, and adequacy of content against the LRIP system or equipment. The Contractor shall invite the Government to observe validation events, providing 30 days of advanced notice in writing. (C080 CDRL SOWC 4541, Technical Publications Validation Plan).

ID : SOWC-4542

**3.3.6.10.3 Validation Software and Hardware**

The Contractor shall provide all personnel, equipment, tools, special tools, test equipment, mandatory replacement parts and utilize the latest version of released EMS NG software to support validation of JLTV FoV for field and Sustainment level publication procedures. The Contractor shall validate IETMs are compatible with EMS NG Viewer software and capable of being viewed on a standalone laptop computer with EMS NG loaded. IETMs must also be validated on the Maintenance Support Device (MSD) V3 and Vehicle Automated Diagnostic System (VADS) along with the EMS NG Autonomous Diagnostic Manager (ADM) software for interactive diagnostics. The Government shall provide Contractor with GFE equipment to test software usability and functionality. The Contractor shall obtain EMS NG software required for the development, and submission of software problem tickets using the following link: <https://oneil.service-now.com/ems/>

ID : SOWC-4543

**3.3.6.10.4 Technical Publications Validation Certificate**

The Contractor shall provide a Validation Certificate for each Technical Publication. The Certificate is the Contractor's evidence that the Technical Publication products are accurate and complete. The Contractor shall also provide an indicator when some portion of the validation could not be accomplished. The Contractor shall maintain, and provide all validation records. All validation records will be accessible at verifications and Log Demonstrations. (C081 CDRL SOWC 4543, Technical Publications Validation Certificate)

ID : SOWC-4544

**3.3.6.10.5 Verification Software and Hardware**

The Contractor shall provide all personnel, equipment, tools, special tools, test equipment, mandatory replacement parts and utilize latest version EMS NG software to support verification of production representative JLTV FoV for field level publication procedures. The Contractor shall validate IETMs are compatible with EMS NG Viewer software and capable of being viewed on a standalone laptop computer with EMS NG loaded. IETMs must also be verified on the Maintenance Support Device (MSD) V3 along with the EMS NG Autonomous Diagnostic Manager (ADM) software for interactive diagnostics. The Government will provide Contractor with GFE equipment to test software usability and functionality.

ID : SOWC-4545

**3.3.6.10.6 Verification**

The Contractor shall provide the Government with validated Technical Publications to use as the baseline for Government TM verification. The Verification shall be conducted at the Contractor's facility with production representative JLTV FoV. PTM(s) containing operator and field level maintenance tasks shall be re-validated when changes result from testing and approved ECPs or in cases where the Contractor failed to validate. The Contractor shall provide Technical Publications update services during the verification to incorporate changes in real time and to provide onsite resolution of any discrepancies found during the verification.

**Name of Offeror or Contractor:**

ID : SOWC-4546

## 3.3.6.10.7 Content Management System

The Contractor shall provide all technical publication content source files including XML, graphics, multimedia files, and EMS NG specific files. The source files shall be delivered to the Government for use in the TACOMs EMS NG Content Management System (CMS) for review, publishing, and retention. Content and LPD shall be mirrored in PowerLOG-J, within the appropriate associated record fields, to support and allow for updates to technical publications based upon changes to LPD. (C082 CDRL SOWC 4546, Content Management System)

ID : SOWC-4547

## 3.3.6.10.8 Commercial Components Warranty

If any commercial components have a warranty, the Contractor shall include the specific warranty information in the Operators (10) manual. This information shall include a listing of items under warranty, the terms of the warranty and procedures for pursuing a warranty (reference Attachment 0037 SOWC 4223.1 TABLE A-II, Operator Matrix).

ID : SOWC-4548

## 3.3.7 Logistics Demonstration

ID : SOWC-4549

## 3.3.7.1 Logistics Demonstration Objectives

Logistics Demonstrations shall evaluate the following: 1) The supportability engineered and established for the system; 2) Human factors engineering aspects and MANPRINT related to operator and maintainer tasks; 3) The adequacy of maintenance planning for the system (such as maintenance concept, task allocation, maintenance procedures [to include repair procedures], troubleshooting procedures, Training Support Package [TSP], and peculiar support equipment); 4) Training and training devices; 5) Technical publications; 6) Common tools and special tools; 7) Spares and repair parts list; 8) The TMDE, including the embedded diagnostics, test program set, and diagnostic procedures in the technical manual; 9) The Logistics Management Information Logistics Product Data (LPD) data, including updates. The Contractor shall conduct a training event for operator and maintainer on the JLTIV PoV configuration at the location selected by the Government. The training shall be developed to the demonstration tasks and events chosen by the Government. The Government will provide the tasks and events prior to the log or as specified in the work directive.

ID : SOWC-4550

## 3.3.7.2 Log Demo Planning

The Contractor shall provide all necessary facilities, parts, tools and other support items necessary to conduct a Log Demo for a period not to exceed 90 days. The Government will provide the Log Demo Plan no earlier than 180 days prior to the Log Demo.

The contractor shall:

- a. provide full time on-site support during the logistics demonstration. An experienced JLTIV Engineer representative shall be present to respond to issues with access to field services and test personnel.
- b. have the contractor's provisioning and training representative on site during logistics demonstration to ensure RPSTL and training issues are identified and resolved.
- c. have a contractor technical writer dedicated for each work station. This technical writer shall be responsible for making real time corrections as appropriate and documenting complete results of the work package demonstration.
- d. provide large monitors (32+ inches) at each work station for in shop, bay, and desktop reviews. The display is intended to provide a means for the log demo team to view the procedure being performed by the mechanic. The screens shall be connected to the Maintenance Support Device. An additional mouse shall also be available with the monitor to allow other team members to control what is being viewed on the screen.
- e. based on SSP requirements, prepare a checklist to track and assess the preparedness of the logistics demonstration. The checklist shall address all support requirements and be briefed and displayed at Logistics IPRs. This list shall provide availability status and dates for each SSP requirements. Issues that would cause delay or problems in performance of the logistics demonstration shall be clearly identified as follows: Green (on-hand and ready), Amber (not on-hand and item due-in by required date), and Red (not available by required date). Items coded Red shall be intensively managed to mitigate risk.
- f. consolidate, package, and mark all Mandatory Replacement Parts (MRP) by task, for ready access during the Log Demo.
- g. have back-up documentation for each work package organized and readily available during the Log Demo.
- h. develop and maintain an automated record keeping database to track the results and status of the Log Demo activity and provide daily reports. A copy of the complete database shall be provided with the Log Demo Report (reference C083 CDRL SOWC 4246, Log Demo Report).
- i. conduct a Log Demo readiness review with the Government at the event site six weeks prior to start of the logistics demonstration.
- j. provide facilities and equipment that minimizes distraction and offers a safe, comfortable, and relatively clean work environment.

**Name of Offeror or Contractor:**

k. provide for a Government conference room near the worksite with multiple phone and internet access points, excluding WI-FI.

ID : SOWC-4551

3.3.7.3 Log Demo Results Report

The Contractor shall prepare and deliver a report that records the results of each Log Demo including evaluation of operations and maintenance procedures, support items, manpower and skill requirements, maintenance allocation, and maintenance times. The Contractor shall update all logistics products deliverable under this contract including LPD, provisioning documentation, technical manuals, training documentation based on the results of the Log Demo. Copies of these reports shall be provided to the Government. Log Demo updates shall be incorporated into the respective publication deliverables and PowerLOG-J. (C083 CDRL SOWC 4551, Log Demo Results Report).

ID : SOWC-4552

3.3.8 Packaging, Handling, Storage and Transportation

ID : SOWC-4553

3.3.8.1 Packaging for the JLTV Program

Packaging for the JLTV FoV: The Government intends to maintain Packaging, Handling, Storage and Transportation (PHS&T) developed for the JLTV FoV. This includes the development and update of packaging LPD data, Special Packaging Instructions (SPI), and Equipment Preservation Data Sheets (EPDS).

ID : SOWC-4554

3.3.8.2 Packaging Data Development

The Contractor shall develop and update 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, NMWR/DMWR candidate items, Line Replaceable Units, and any large, high cost item classified as a Special Group Item (reference SOWC 4268). Packaging shall be developed IAW MIL-STD-2073-1D. Each SMR coded "P" item shall be classified as a selective group item or special group item. The Contractor shall provide facilities, equipment, materials, and provisioned items for packaging development. The Contractor shall complete verification and provide support data with each data submittal identified below. 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.

ID : SOWC-4555

3.3.8.3 Item Classification

The Contractor shall classify each SMR "P" coded item as a Selective group item or a Special group item IAW MIL-STD-2073-1D, SOWC 4267, and SOWC 4268.

ID : SOWC-4556

3.3.8.3.1 Selective Group

Items classified as Selective group items 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 shall not exceed 84 inches. A Selective group item must not require disassembly for packaging. Reconfiguration for packaging of Selective group items is limited to folding or coiling. Items will not be classified as Selective if they are repairable, recoverable, contain hazardous material, or if assigned a shelf life. Packaging data output for Selective group items is in the form of LPD Coded Data Products (reference C084 SOWC 4558).

ID : SOWC-4557

3.3.8.3.2 Special Group

Items classified as 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. Special Group items include armor kits, axles, other 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. Packaging data output for Special group items consists of Special Packaging Instructions and LPD Coded Data Products.

ID : SOWC-4558

3.3.8.4 Logistics Product Data Coded Data Products Packaging

The Contractor shall develop, update and provide Logistics Product Data (LPD) packaging data for each SMR "P" coded Selective and Special group item. At the Contractor's request, the Government may provide a MS ACCESS application that provides data formatting and edit features for coding of packaging LPD data products. The Contractor shall develop, maintain, and update packaging data IAW MIL-STD-2073-1D, Attachment 0045 SOWC 4269.1 Packaging Data Products, and Attachment 0046 SOWC 4269.2 Incoming Transaction Format. All associated packaging LPD shall be input, maintained and updated in the PowerLOG-J application. (C084 CDRL SOWC 4558, LPD Coded Data Products Packaging).

**Name of Offeror or Contractor:**

ID : SOWC-4559

## 3.3.8.5 Special Packaging Instructions (SPI)

The Contractor shall develop, and update Special Packaging Instructions (SPI) for each item classified as a Special group item. Figures and narrative data shall be developed, and updated to describe the form, fit, and function of packaging in sufficient detail for production. The SPI package shall include packaging LPD coded data and packaging test reports for all special group items and the special packaging instructions. The Contractor shall ensure that all SMR "P" coded items requiring SPIs are accounted for. SPI format shall be IAW MIL-STD-2073-1D. (C085 CDRL SOWC 4559, SPI)

ID : SOWC-4560

## 3.3.8.6 Validation Testing of Packaging

The Contractor shall conduct validation testing for each item classified as a Special group item. 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 shall be limited to Test Schedule A and Test Schedule F. Climatic conditioning is not required. Each SPI submitted shall have a packaging test report including photographs. Photographs shall show the product before and after testing and that the product is undamaged. Packaging test reports shall be submitted concurrently with SPI submittal, and packaging LPD data products for the Special group items. The Contractor shall provide a Validation Test Report. (C086 CDRL SOWC 4560, Packaging Test Report)

ID : SOWC-4561

## 3.3.8.7 Equipment Preservation Data Sheets

The Contractor shall develop and update Equipment Preservation Data Sheets (EPDS) for the JLTIV FoV. The Contractor shall include requirements for disassembly procedures to meet clearance requirements for land, air, and sea shipments. The Equipment Preservation procedures shall include drive-on and drive-off capability. The Contractor shall develop and update packaging requirements for BII and COEI. BII shall be packed separate from COEI. HAZMAT (if applicable) shall be packaged and shipped separately IAW CFR Title 49. The 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. All associated packaging LPD shall be input, maintained and updated in the PowerLOG-J application as required. (C087 CDRL SOWC 4561, Equipment Preservation Data Sheets)

ID : SOWC-4562

## 3.3.8.7.1 Validation of Equipment Preservation Data Sheets

The Government will determine if all or selected portions of the Equipment Preservation Data Sheet 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. The Contractor shall notify the Government sixty (60) days prior to conduct of Contractors validation. The Government shall witness the Contractors validation. The Contractor shall provide a validation report. (C088 CDRL SOWC 4562, EPDS Validation Report)

ID : SOWC-4563

## 3.3.8.8 Long Life Reusable Containers

ID : SOWC-4564

## 3.3.8.8.1 Long Life Reusable Containers Development

The Contractor shall search for existing reusable container designs that are suitable for the Engine, Transmission, and Transfer-Case (T-Case) via the Container Design Retrieval System (CDRS). If there are no applicable existing LLRCs, the Contractor shall fully develop LLRCs IAW SAE ARP 1967A, and Appendix A of Attachment 0047 SOWC 4275 (LLRC Design Proposal Format) All associated packaging LPD shall be input, maintained and updated in the PowerLOG-J application. (C089 CDRL SOWC 4564, Container Design Retrieval System (CDRS) Search Request)

ID : SOWC-4565

## 3.3.8.8.2 Material

The containers shall only be fabricated from steel, aluminum, or composite material. If a metallic container is developed it must have a Chemical Agent Resistant Coating (CARC) as defined in SAE ARP 1967A. The use of wood in the design and fabrication of these reusable containers is forbidden except for the container skids.

ID : SOWC-4566

## 3.3.8.8.3 Performance

The containers shall incorporate energy absorbing systems, dehumidification systems, and other special features to ensure protection of the item. The containers shall be capable of being repaired or retrofitted to prolong container service life or modified to adapt the reusable container for shipment of the items other than for which it was originally intended. Attachment 0048 SOWC 4277 (TB 9-289, Technical Bulletin for the Reconditioning of Type I and Type II Reusable Metal Containers), shall be used as a guide.

ID : SOWC-4567

## 3.3.8.8.4 Size

**Name of Offeror or Contractor:**

The container size shall be of the minimum, consistent with the size, weight, and the performance requirements of SAE ARP 1967A with the exceptions listed in Appendix A of Attachment 0047 SOWC 4275 (LLRC Design Proposal Format). The Contractor shall develop the container for multi-modal transportation including truck, rail, air, and ocean.

ID : SOWC-4568

**3.3.8.8.5 Concept Drawing**

The Government will furnish 19207 drawing numbers for container concept drawings at the Logistics IPT meeting following the results of the CDRS search. The Contractor shall use two of the furnished 19207 part numbers for creating the concept drawing for each component. One 19207 part number shall be assigned to each concept drawing. Each concept drawing shall include a Bill of Material that will identify the part number of the component being containerized and the 19207 part number assigned to the container. The Contractor shall submit a concept drawing. The Government will review and approve each concept drawing prior to prototype construction. (C090 CDRL SOWC 4568, Concept Drawing)

ID : SOWC-4569

**3.3.8.8.6 Prototype Container and Test Plan**

The Contractor shall construct a prototype container and shall submit for approval a test plan for each Government approved component IAW C033 CDRL SOWC 4280 (Prototype Container and Test Plan). Testing shall be IAW SAE ADP 1967A and Attachment 0047 SOWC 4275 (LLRC Design Proposal Format). (C091 CDRL SOWC 4569, Prototype Container and Test Plan)

ID : SOWC-4570

**3.3.8.8.7 LLRC Fit-Up**

The Contractor shall perform a validation by fitting the component to the container. The Contractor shall perform this validation on each container and provide a container Fit-Up Validation Report. The Contractor shall ensure the container designer is a full participant in fit-up of the containers. (C092 CDRL SOWC 4570, Container Fit-up Validation Report)

ID : SOWC-4571

**3.3.8.8.8 LLRC Testing**

The Contractor shall notify the Government sixty (60) days prior to conduct of LLRC testing for each component. The Government will be present at testing of each LLRC. If the Government is not present, the test report and TDP submission (reference SOWC 4572) will be rejected and the contractor shall reschedule testing for when the Government is available. In order to document Government attendance, the Government will provide a memorandum of attendance to the contractor at the end of testing, which shall be included as appendix A in the test report. Any test reports submitted without this memorandum will be immediately rejected by the Government.

The Contractor shall conduct LLRC testing IAW the approved test plan (reference C091 CDRL SOWC 4569, Prototype Container and Test Plan). If the Government determines that testing is unsuccessful, subsequent testing of the container must be rescheduled. The Contractor shall notify the Government thirty (30) days prior to the rescheduled test date. The Contractor shall ensure the container designer is a full participant in testing of the containers. The Government will witness LLRC tests for each container. The Contractor shall deliver a complete test report covering the component tested. (C093 CDRL SOWC 4571, LLRC Test Report)

ID : SOWC-4572

**3.3.8.8.9 LLRC TDPs**

The Contractor shall develop and deliver a complete Production Level Technical Data Package (TDP) IAW MIL-STD-31000 for the reusable shipping and storage container upon receiving USG approval of a reusable container design and test report. The TDP shall include product drawings and associated lists in sufficient detail to provide for a competitive procurement. The Government will supply part numbers and drawing numbers for the new parts and drawings. Product drawings shall comply with ASME-Y14.100 2000 and ASME-Y14.5M 1984. Configuration management data shall comply with MIL-HDBK-61. Electronic drawing file format shall be PRT, IGES, or PDF. (C094 CDRL SOWC 4572, LLRC TDP)

ID : SOWC-4573

**3.3.9 Parts Management Program**

ID : SOWC-4574

**3.3.9.1 Parts Management Program Objectives**

The Contractor shall establish, update and execute a Parts Management Program (PMP) for the JLTV FoV throughout the period of performance. The Contractors Part Management Program shall be IAW MIL-STD-3018.

The planning, documented procedures, and all other documentation, media, information and data that shall define the Parts Management Program and the rationale for parts selected shall be made available to the Government for their review (reference C095 CDRL SOWC 4363, Parts Management Program Plan).

The Parts Management Program shall:

- a. Ensure Contractor, Subcontractor and other Suppliers parts meet contractual performance requirements.
- b. Document how the Contractor will ensure the proper management of Subcontractors and Suppliers and the communication of parts data and information to include technology insertion or obsolescence issues between the various levels of supply.
- c. Reduce the proliferation of parts within the JLTV FoV and across like DoD weapon systems and equipment to enhance JLTV FoV

**Name of Offeror or Contractor:**

availability and the supply chain agility through screening and standardization procedures.

d. Document the PMP correlation with the JLTV FoV obsolescence and configuration management planning.

e. Identify, track, and mitigate any risk associated with parts availability that may lead to:

1. Lengthy logistics response times
2. Material shortages
3. Lack of alternate material sources

ID : SOWC-4575

**3.3.9.2 Parts Management Program Manager**

The Contractor shall designate a PMP manager who shall be responsible for approving all selected parts and ensuring that the JLTV parts management processes meet the intended PMP objectives.

The designated individual shall be responsible for managing Subcontractor participation concerning contractual requirements as well as all other aspects of contractually approved processes. The Contractor's designated PMP manager shall interact or team with its acquisition activity counterparts including Government Supportability teams) to ensure mutual awareness of all part-type concerns and problems, and any recommended changes to the Contractors processes that could affect program objectives.

The Contractor shall address PMP status and compliance during Logistics IPT meetings.

ID : SOWC-4576

**3.3.9.3 Parts Management Program Plan**

The Contractor shall document and execute its JLTV Parts Management Program in the Parts Management Program (PMP) Plan.

The JLTV PMP Plan shall:

1. Document the processes and procedures for determining an item of supply meets JLTV Purchase Description (Attachment 0001).
2. Address parts control to eliminate counterfeiting.
3. Communicate any technology insertion efforts that address potential modernization changes that effect a parts product specification that impacts a JLTV Purchase Description (Attachment 0001) such as the need to redress potential obsolescence issues including the need of for a life of type buy due to diminishing manufacturing sources.
4. Address the selection of alternate material sources that can serve as suppliers and list them.
5. Identify risk related to the bill of material (BOM) that will affect JLTV Sustainment goals and objectives.
6. Document the design margins for critical parts that directly affect JLTV availability.
7. Document all parts that require certification including the qualification of parts for an application) that will support the sourcing for alternate manufacturers or suppliers.

(C095 CDRL SOWC 4576, Parts Management Program Plan)

ID : SOWC-4577

**3.3.10 SYSTEM SUPPORT PACKAGES**

ID : SOWC-4578

**3.3.10.1 System Support Packages Package**

The System Support Package is a composite package of support resources, to include spare parts, and special tools. SSPs shall be provided, when required, by appropriate work directive. 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 Product Baseline.

ID : SOWC-4579

**3.3.10.2 System Support Package List**

The Contractor shall provide a list of the SSP items to the Government no later than 120 days prior to the date specified on the work directive, unless otherwise agreed to by the parties, IAW C096 CDRL 4579, System Support Package (SSP).

ID : SOWC-4580

**3.3.10.3 System Support Package Contents**

The 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 the following:

- a. 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 described by work directives. 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.
- b. Common and Special Tools and Test Measurement and Diagnostic Equipment (TMDE). Required common tools or tool kits, equipment and TMDE identified in the Army 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 Army 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. Equipment Publications. The most recent version of each equipment publication shall be identified on the SSP list and shall be

**Name of Offeror or Contractor:**

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).

d. Basic Issue Items (BII) and Components of the End Item (COEI). BII as required by the specifications and COEI shall be identified in the SSP 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.

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

f. Support Equipment. Equipment already existing in the Army and Marine Corps 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.

ID : SOWC-4581

3.3.11 Care of Supplies In Storage

The Contractor shall develop and provide a Care of Supplies in Storage (COSIS) plan. The Contractors COSIS plan shall address all Preventive Maintenance Checks and Services and exercise of vehicles. The Contractor shall implement this COSIS plan. (C097 CDRL SOWC 4581, COSIS)

ID : SOWC-4582

3.3.12 Training support

The Contractor shall develop, update and provide training support for Operators New Equipment Training (OPNET) and Field Level New Equipment Training (FLMNET) IAW AR 350-1, TR 350-70 series and the New Equipment Training Plan (NET-P). (C098 CDRL 4582, Training Support)

ID : SOWC-4584

3.3.12.1 Training packages

The Contractor shall be responsible for reproduction, storing and shipping of training packages for operators and maintainers in conjunction with materiel fielding. Training support shall also involve associated tasks such as maintaining equipment to be issued to gaining units and providing on-site technical services.

ID : SOWC-4585

3.3.12.2 Instructional materials

All instructional materials, Programs of Instruction (POIs), and training products used, developed, or procured by the Contractor for courses taught under this work directive shall become the sole property of the U.S. Government and shall not be used without the written consent of the COR and COTR.

ID : SOWC-4586

3.3.12.3 Commercial Driver License

The Contractor shall ensure that all NET instructors have a valid Group A Commercial Driver License for end items being fielded, IAW ALARACT 242-2011. Any costs associated with obtaining commercial driver licenses shall be borne by the Contractor and shall not be reimbursed by the Government.

ID : SOWC-4588

3.3.12.4 Contractor Furnished Safety Equipment

The Contractor shall furnish all safety equipment required for performance of a work directive. The Government assumes no responsibility for Contractor furnished equipment.

ID : SOWC-4589

3.3.12.5 Start of Class

The Contractor shall be responsible for ensuring instructors are on-site 30 minutes prior to start of class. The Contractor shall verify with the unit or organization point of contact to ensure all training aids, equipment, training materials, classrooms, and all items required to conduct the training are on-hand prior to start of class. If the required training materials, equipment, or facilities are not available, the Contractor shall notify the COR and NET or Field Manager. The COR will notify the Contractor on the decided course of action to be taken to rectify the problem.

ID : SOWC-4590

3.3.12.6 Supply of Training Consumables

The Contractor shall be responsible for maintaining and providing an adequate supply of training consumables such as seals, gaskets, and sealant to perform all hands-on training tasks. These consumable items shall be used conservatively and only be replaced at the end of each training effort.

ID : SOWC-4591

3.3.12.7 Maintenance of Shop and Classroom Training Area

The Contractor shall ensure Instructors are responsible for the cleanup of the shop and classroom training area. They shall also be required to return all training sites to original condition. Instructors shall be cognizant of environmental and hazardous material regulations and local policies at the training location; and in the event of an accident or incident involving hazardous materials

**Name of Offeror or Contractor:**

(HAZMAT) or environmentally sensitive areas, the Contractor instructors shall take appropriate actions to contain the problem immediately and notify proper authorities IAW local environmental and HAZMAT requirements.

ID : SOWC-4592

**3.3.12.8 Equipment**

The Contractor shall ensure Instructors check all equipment used as training aids prior to and after training to ensure it meets 10/20 standards, IAW DA 700-142. If the equipment does not meet 10/20 standards, the instructors shall notify the Fielding Manager. Instructors shall perform PMCS before and after operation of the equipment, ensure that all defective equipment/components are reported to the Fielding Manager, and repairs are accomplished IAW 10/20 standards.

ID : SOWC-4593

**3.3.12.9 Instructor Certification Requirements**

The Contractor shall provide technically qualified and certified instructors on all training and instructional materials related to the Government approved POIs. Instructor certification shall be established by: Army Basic Instructor Course (ABIC), by a civilian certification program through public or private certification process, or by a documented Contractor certification program, approved by the Government that requires instructors to (1) present instruction using the conference method (2) present instruction using the demonstration method, or (3) present instruction using the Practical Exercise (PE) method. Presentations will be evaluated using a Performance Evaluation Checklist (PEC). In order to successfully complete this requirement, instructors must achieve a GO on the final PE by presenting a combination of the conference and demonstration/PE methods of instruction and facilitate an AAR following another instructor's presentation IAW a Performance Evaluation Checklist (PEC). Upon successful completion of a Government approved Contractor certification program, instructors become certified to teach selected NET POI(s). AR 350-1 (Army Training & Leadership Development) and TR 350-70 series (Training Development) outlines requirements for instructor certifications.

ID : SOWC-4594

**3.3.12.10 Contractor Furnished Equipment**

The Contractor shall provide all its personnel basic tool sets required for performance of a work directive.

ID : SOWC-4595

**3.3.13 Technical Support**

ID : SOWC-4596

**3.3.13.1 General**

The Contractor shall provide technical support as directed in an individual Work Directive. Technical support includes operating Government vehicles, user training, technical data collection and reporting, troubleshooting, repairing, deprocessing, storing, and shipping vehicles and its respective components during transition and training. User training consists of assembly and subassembly troubleshooting, component and system fault isolation, and repair. This training may be informal in nature and done principally by demonstrating the function. The FSR shall be experienced and qualified to advise, make recommendations, and to orient and instruct key Government personnel with respect to operation, maintenance, and repair of the JLTV FoV and its components. The effort consists of investigation and diagnosis of problems or issues in the field related to vehicle performance, maintenance, and training.

ID : SOWC-4598

**3.3.14 Failure Reporting, Analysis and Corrective Actions System**

ID : SOWC-4599

**3.3.14.1 Failure Reporting, Analysis and Corrective Actions System Objective**

The post-fielding Failure Reporting, Analysis and Corrective Actions System (FRACAS) process establishes the required methodology, guidelines, and responsibilities for conducting failure analysis, documenting analysis results, and proposing corrective actions in support of the JLTV FoV. The focus is to address selected Product Quality Deficiency Reports (PQDRs) submitted against the JLTV FoV.

ID : SOWC-4600

**3.3.14.1.1 FRACAS Program:**

The Contractor shall establish and implement a closed loop FRACAS program to address JLTV PQDRS selected by the Government. PQDR data and/or failed or deficient hardware will be provided by the Government for analysis. At a minimum, the Contractor shall:

- (a.) perform failure analysis to determine the root cause of the failure or deficiency and define the failure mechanism;
- (b.) propose corrective actions to eliminate recurrence of the failure mechanism(s) and its effects.

When required by the work directive, FRACAS will be conducted IAW GEIA-STD-0009 and TA-HDBK-0009 and a report delivered. The FRACAS effort shall be coordinated and integrated with other program efforts such as reliability, quality assurance, maintainability, human factors engineering, system safety, test, configuration management, and integrated logistics support to reduce duplication of effort and to propose integrated, low-risk, cost effective results. (C099 CDRL SOWC 4600, FRACAS REPORT)

ID : SOWC-5100

**3.4 TEST REQUIREMENTS**

**Name of Offeror or Contractor:**

ID : SOWC-5101

## 3.4.1 Testing

Government testing will be conducted on approved Engineering Change Proposals (ECPs), and any other testing that the Government elects to perform to validate Contractor compliance to the JLTV Purchase Description (Attachment 0001). The Government is not obligated to conduct testing or retest.

ID : SOWC-5275

## 3.4.2 Technical Support

The Technical Support and SSP requirements detailed in section C.3.3.10 and C.3.3.13 above shall apply to all potential Follow-On Test requirements.

ID : SOWC-1522

## 4 INTERIM CONTRACTOR SUPPORT

ID : SOWC-4437

## 4.1 INTERIM CONTRACTOR SUPPORT OBJECTIVES

The Government intends to initially support the JLTV FoV with an Interim Contractor Support (ICS) approach including maintenance, training, and supply support.

The Contractor shall:

- a) Provide the personnel, transportation, material, warehousing and support equipment including test equipment and tools to perform all scheduled and unscheduled maintenance as required herein to support JLTV FoV at fielded locations (CONUS and OCONUS);
- b) Provide expertise in managing, warehousing, issuing and receipt of Class IX stockage;
- c) Utilize approved instructions in the care and service of JLTV FoV.

ID : SOWC-5279

## 4.2 PERIOD OF PERFORMANCE

The Period of Performance (POP) will be 12 months for each option exercised, up to three (3) options for a total POP of three (3) years. For Option Year 1 only, the Contractor shall be fully capable of meeting all ICS requirements NLT 90 days after exercise of option.

- a. Option Year 1 POP: ICS Support Required for approximately 1,446 (Army) and 150 (USMC) JLTV per year.
- b. Option Year 2 POP ICS Support Required for approximately 1,455 (Army) and 279 (USMC) JLTV per year.
- c. Option Year 3 POP ICS Support Required for approximately 1,879 (Army) and 1,083 (USMC) JLTV per year.

ID : SOWC-4438

## 4.3 CONTRACTING OFFICERS REPRESENTATIVE and CONTRACTING OFFICER TECHNICAL REPRESENTATIVE

The Government will designate a Contracting Officer Representative (COR) as an action officer for the Army and a Contracting Officer Technical Representative (COTR) for the Marine Corps. The COR and COTR is an individual designated IAW DFARS 201.602-2 and is authorized in writing by the Contracting Officer to perform specific technical functions.

The Contractor will receive a copy of the COR and COTR appointment letter after award that will specify the extent of the COR and COTR's authority to act on behalf of the Procuring Contracting Officer (PCO). The COR and COTR is NOT authorized to make any commitments or changes that will affect price, quantity, delivery or any other term or condition of this contract.

ID : SOWC-4439

## 4.4 TECHNICAL SUPPORT AND SERVICES

ID : SOWC-4440

## 4.4.1 Start of Work Meeting

The Contractor shall conduct an ICS Start Of Work Meeting (SOWM) no later than 30 days after exercising ICS Option Year 1. The ICS SOWM is anticipated to last no longer than two (2) days and shall be held at the Contractors facility. The Contractor shall, as a minimum, brief:

- a) Contractor's strategy for conducting ICS and the Contractors "keys to success" for meeting program objectives and metrics
- b) Contractor's process for determining support requirements for successful fulfillment of ICS Option.
- c) Contractor's schedule for meeting key fielding and support dates
- d) Contractor's plan for transitioning from ICS to JLTV's Product Support Strategy (at Materiel Support Date(s)).
- e) List of key personnel to include ICS Manager

ID : SOWC-4441

## 4.4.2 Field Service Representative Support

ID : SOWC-4442

## 4.4.2.1 Field Service Representatives

The Contractor shall provide experienced Field Service Representatives (FSR) personnel to support the JLTV ICS locations based on the

**Name of Offeror or Contractor:**

JLTV Fielding Schedule (Attachment SOWC 4442, Fielding Location and Schedule) throughout the Period of Performance(s). These personnel shall be trained and qualified to operate, diagnose, troubleshoot, maintain, train, and repair the JLTV FoV. FSRs shall have the ability to identify failures of authorized JLTV Government Furnished Equipment (GFE) and shall report failures of GFE to the requisite unit repair activity for those items. FSRs will be prepared to support operator and maintainer sustainment training at all levels. FSRs shall comply with local unit Standard Operating Procedures (SOP) for documenting and reporting maintenance and repair activities to include JLTV reporting. The Contractor shall provide a recommended ratio of FSR support required to maintain a set number of vehicles per site based on fielding schedule (Attachment SOWC 4442, Fielding Location and Schedule)

ID : SOWC-4444

**4.4.2.2 Field Service Representatives Response Time**

The Contractor shall ensure sufficient FSR support is available to units to meet all performance metrics. FSRs shall conduct all training and field exercises, locally and at offsite locations as directed in an individual work directive. When unit exercises and training dictate a 24/7 support requirement, the Contractor shall ensure that FSRs are available to support the unit. FSRs shall coordinate with the unit to ensure that the Unit's schedule can be supported.

The Contractor shall ensure that FSRs respond to unit Maintenance Officer or his/her authorized representative requests for support in less than 60 minutes after notification to provide status of the maintenance action and the availability of the supported item.

ID : SOWC-4445

**4.4.2.3 After Action Report**

After any supported training or Unit exercise, the Contractor shall submit an After Action Report AAR within 14 calendar days detailing the support activities provided by the FSRs. (C100 CDRL SOWC 4445, After Action Report)

ID : SOWC-4446

**4.4.2.4 License Requirements**

The Contractor shall ensure that all Field Service Representatives (FSRs) have a valid Group A Commercial Driver License, IAW ALARACT 242-2011. Any costs associated with obtaining commercial driver licenses shall be incurred by the Contractor and shall not be reimbursed by the Government.

ID : SOWC-4447

**4.4.2.5 Subcontractor Physical Access**

The Contractor shall insert FAR 52.204-9 Personal Identity Verification of Contractor Personnel, into any subcontracts required in support of the JLTV FoV ICS effort when Subcontractor personnel require routine physical access a federally controlled facility and/or routine access to a federally controlled information system.

ID : SOWC-4448

**4.4.3 Vehicle Maintenance Services**

The Contractor shall perform, to the extent specified herein, all Field Level of Maintenance (LOM) and Sustainment LOM on the JLTV FoV. The JLTV FoV will be maintained to a Fully Mission Capable status at all times IAW the JLTV Technical Manuals (TMs) and Interactive Electronic Technical manuals (IETMs). If JLTV TM(s) and IETM(s) do not provide information and instructions needed to perform the required maintenance, the Contractor shall perform maintenance IAW published Original Equipment Manufacturers (OEM) procedures. All maintenance labor hours, tasks and parts consumed during unscheduled maintenance and scheduled services shall be included in the Service and Consumption Report.

(Reference A023 CDRL SOW 1367, Service and Consumption Report)

ID : SOWC-4449

**4.4.3.1 Unscheduled Maintenance**

The Contractor shall perform unscheduled maintenance on the JLTV FoV IAW the current JLTV TM(s) and IETM(s). If JLTV TM(s) and IETM(s) do not provide information and instructions needed to perform the required maintenance, the Contractor shall perform maintenance IAW published OEM procedures. Any deficiencies found in JLTV TM(s) and IETM(s) will be annotated and presented during Field Logistics Management (FLM) reviews (reference A001 CDRL SOWC 34, Read Ahead Agenda) (reference A002 CDRL SOWC 36, Minutes).

ID : SOWC-4450

**4.4.3.2 Scheduled Services**

The Contractor shall perform all scheduled services on the JLTV FoV at required intervals IAW the current JLTV TM(s) and IETM(s). If JLTV TM(s) and IETM(s) do not provide information and instructions needed to perform the required scheduled services, the Contractor shall perform scheduled services IAW published OEM procedures. In addition, the Contractor shall provide all parts and materials to perform scheduled services JLTV TM(s) and IETM(s). Any deficiencies found in JLTV TM(s) and IETM(s) will be annotated and presented during FLM reviews. (reference A001 CDRL SOWC 34, Read Ahead Agenda) (reference A002 CDRL SOWC 36, Minutes).

ID : SOWC-4451

**4.4.3.3 Operator Preventive Maintenance Checks and Services**

The Contractor shall provide technical support to the Army and Marine Corps operators and Units to ensure Preventive Maintenance Checks

**Name of Offeror or Contractor:**

and Services (PMCS) for the JLTVM FoV are performed IAW the current JLTVM TM(s)

ID : SOWC-4452

4.4.3.4 Safety Of Use Messages, Ground Precautionary Action Messages, Maintenance Advisory Messages, and Maintenance Information

The Contractor shall take action as defined in all Safety Of Use (SOU) Messages, Ground Precautionary Action (GPA) Messages, Maintenance Advisory (MA) Messages, and Maintenance Information (MI) Messages provided by the Government that impact parts, assemblies or activities for which the Contractor has responsibility. In addition, the Contractor shall report compliance with SOUs, GPAs, MAs, and MIs on a weekly basis by Unit, Vehicle to include model and serial number and action taken. (C101 CDRL SOWC 4452, Compliance Report)

ID : SOWC-4453

4.5 ICS METRICS REPORTING

ID : SOWC-4454

4.5.1 Turn Around Time

The Contractor shall ensure that Turn Around Time (TAT) does not exceed the designated TAT in Attachment 0051 SOWC 4454, Turn Around Time Metric. TAT is the period of time that elapses between the time that a unit maintenance organization accepts a field or organization work order, followed by accomplishment of the work, and the time at closeout of the work order and provide a monthly report. (C102 CDRL SOWC 4454, TAT Report)

ID : SOWC-4455

4.5.2 Inventory Accuracy and Accountability

The Contractor shall maintain an Inventory Accuracy of 100% at any warehouse facility issuing or storing JLTVM FoV parts and supply inventory. The Contractor shall conduct a thorough review of all material and property inventory accountable under this contract every six months. The Contractor shall notify the Administrative Contracting Officer (ACO) and Government Property Administrator (GPA) 30 days prior to initiating the review. The Government may participate, at its option, in the inventory review. The results of the review shall be used to update the Contractor's property records required under the terms of this contract. Contractor shall provide the Government a complete listing of inventory as a result of the review. (C103 CDRL SOWC 4455, Inventory Accuracy)

ID : SOWC-4456

4.6 GOVERNMENT PROVISIONS

The Government will provide access to Unit or Organization's facilities during work hours for performing maintenance on JLTVM FoV. The Government will provide access to office space area in which to complete required documentation for Unit reporting requirements. The Government will provide access to telephone and computer network communications.

ID : SOWC-4457

4.7 CONTRACTOR PROVISIONS

The Contractor shall provide FSRs all necessary provisions, not provided by the Government, to perform the maintenance, training, and supply support ICS tasks.

ID : SOWC-4458

4.7.1 Contractor Furnished Property

The Contractor shall furnish all required equipment and personal safety items for FSR's, such as safety goggles, safety shoes, safety hats, gloves, ear protection and tools. The Government assumes no responsibility for Contractor-owned property.

ID : SOWC-4459

4.7.2 Common Access Card

All Contractor personnel performing work under this effort shall obtain a Common Access Card (CAC) (reference SOWC 5257) within 15 days after exercise of option

ID : SOWC-4460

4.7.3 Physical Security

The Contractor shall safeguard all Government equipment, information, and property provided for Contractor use at all times. At the close of each business day or work period, Government facilities, equipment, and materials shall be secured.

ID : SOWC-4461

4.7.4 Key Control

The Contractor shall establish and implement procedures to ensure all Government issued keys are properly handled and are not lost, damaged or otherwise used by unauthorized persons. No Government issued keys shall be duplicated. The Contractor shall require personnel with key access to turn in Government issued key(s) when it is determined the key access is no longer required. The Contractor shall immediately report any occurrences of lost or duplicate keys to the Contracting Officer Representative.

ID : SOWC-4462

4.7.5 Lost or Stolen Keys

In the event keys are lost, stolen, damaged, duplicated, used by unauthorized persons, or otherwise mishandled, the Contractor shall re-

**Name of Offeror or Contractor:**

key or replace the affected lock or locks excluding master keys. In the event a master key is lost, stolen, damaged, duplicated, used by unauthorized persons, or otherwise mishandled, all locks and keys for that system will be replaced by the Government and the total cost shall be billed to the Contractor.

ID : SOWC-4463

**4.7.6 Prohibition on Use of Keys**

The Contractor shall prohibit the use of Government issued keys by any persons other than Contractor authorized employees. The Contractor shall prohibit the opening of locked areas by Contractor employees to permit entrance of persons other than Contractor employees engaged in the performance of assigned work in those areas or personnel authorized entrance by the COR.

ID : SOWC-4464

**4.7.7 Lock Combinations**

The Contractor shall establish and implement methods of ensuring that all lock combinations are not revealed to unauthorized persons. The Contractor shall ensure that lock combinations are changed when personnel having access to the combinations no longer have a need to know such combinations.

ID : SOWC-4465

**4.7.8 Special Qualifications**

The Contractor FSRs must have the following qualifications:

- a. Information Assurance Technician (IAT) Level Professional Training Certification, IAW AR 25-2.
- b. ICS personnel for All OCONUS Regions: OCONUS TRAVEL PRO-FILE, IAW ALARACT 098/2010.
- c. ICS personnel in Germany: The DOD Foreign Clearance Guide (Europe, Germany, Section III) - Section III - Personnel Entry Requirements for Official Travel, A. Paragraphs 8. a - c Antiterrorism (AT) Training, Statement of Force Protection (FP) responsibility, and Personnel Recovery (PR) training and documentation found at: <https://www.fcg.pentagon.mil/fcg.cfm>

ID : SOWC-4466

**4.7.9 Identification of Contractor Employees**

All Contractor personnel attending meetings, answering Government telephones, and working in other situations where its Contractor status is not obvious to third parties are required to identify themselves as a Government Contractor. The Contractor shall also ensure that all documents or reports produced by the Contractor are marked as Contractor products (proprietary or not). When on Government property, Contractor personnel shall obtain and wear identification badges in the performance of this service. ID badges shall be visible at all times.

ID : SOWC-4467

**4.7.10 Contractor Travel**

The Contractor may be required to travel to CONUS and OCONUS locations during the performance of this effort to attend meetings, conferences, to train, deprocess, field and fielding vehicles. Travel to the same location on multiple occasions may be necessary. The Contractor may be required to ship training aids to these locations in support of this SOW. The Contractor will be authorized travel expenses consistent with the substantive provisions of the Joint Travel Regulation (JTR) and the limitation of funds specified in this contract.

ID : SOWC-4468

**4.8 SPARES and PARTS MANAGEMENT**

ID : SOWC-4469

**4.8.1 Spare and Repair Parts**

The Contractor shall manage and maintain inventory levels for all parts required for Sustainment of JLTV FoV that are supported under ICS (reference SOWC 4363). The Contractor shall order only Original Equipment Manufacture (OEM) approved parts and material. The Contractor shall implement material process selection and control to limit excess inventory. Packaging and Shipment preparation shall be IAW MIL-STD-2073-1D at the part level.

ID : SOWC-4470

**4.8.2 Parts Procurement**

The Contractor shall be responsible for all ordering, receiving, repair, packaging, handling, storage, and disposal of parts (reference SOWC 4363). The Contractor shall ensure the availability of parts to sustain all fielded configurations and any Government directed changes to configurations after items are fielded.

ID : SOWC-4471

**4.8.3 Common Part**

A common part is defined as a part that goes on other military applications in addition to JLTV FoV, has an established NSN, and is managed by an organic Government source of supply. The Contractor is responsible for obtaining common parts for maintenance and repair of JLTV FoVs.

ID : SOWC-4472

**Name of Offeror or Contractor:**

## 4.8.4 Common Parts Managed by Government Sources of Supply

For common parts supporting all activities, the Contractor shall, unless given relief in writing by the PCO, purchase Government owned inventory from the organic managing activity if stock is available in the Government supply system and meets the requirements of the contract. The stock may be managed by DLA, AMC (Army Material Command), Marine Corps Logistics Command (LOGCOM) or other DOD NICPs (National Inventory Control Points). The requirement to obtain common items from the Government does not relieve the Contractor of any other contractual requirements.

ID : SOWC-4473

## 4.8.5 Parts Ordering and Military Standard Requisitioning and Issue Procedures Authority

The Contractor is authorized access to the Federal Supply System to acquire materiel via the Military Standard Requisition and Issue Procedures (MILSTRIP) process. The Contractor shall obtain a Department of Defense Activity Address Code (DODAAC) assigned to this contract to review asset information and to place orders from the Government. The Contractor will be granted access to view stock levels and availability, when purchasing common parts. Any acquisitions from DLA and other Government sources of supply will be a direct transaction between the Contractor and the managing Government organization. Materiel may be requisitioned using Military Standard Requisition and Issue Procedures (MILSTRIP) or via the DOD EMALL. The Contractor is responsible for dealing directly with DLA and other Government sources of supply to ensure quality and timely delivery of the parts ordered. DOD EMALL website: [https://dod-  
emall.dla.mil/acct/](https://dod-emall.dla.mil/acct/).

ID : SOWC-4474

## 4.8.6 Parts Accountability Database

The Contractor shall maintain a database containing all parts acquired, received and on-hand in support of this contract (reference SOWC 4363). The Contractor shall deliver an electronic file, in Contractor format, of that database as described in A013 CDRL SOW 1368, Inventory Receipt Report and Current Inventory Report.

ID : SOWC-4475

## 4.8.7 Repair of Unserviceable Parts

The Contractor shall repair returned unserviceable repairable items. The Contractor shall make all repairs IAW manufacturer repair standards. In the event manufacturer's repair standards do not exist, the items shall be repaired to the latest drawing configuration. All repairs to each item must be repaired to a single standard, unless otherwise authorized by the PCO. The Contractor shall allow the Government access to review repair standards, repair processes and inspection or tests used. The Contractor shall not repair items where the repair cost exceeds 100% of the replacement cost. The Contractor shall manage the process for the receipt inspection and issuance of repairable items. The Contractor shall provide serviceable parts for the JLTV FoV only and capture returned unserviceable. The Contractor shall screen unserviceable returns within existing capabilities for "no evidence of failure". Condition of parts, serviceable or unserviceable is determined using condition code definitions in DoD 4000.25-2-M appendix 2.5.1. The Contractor shall dispose of unrepairable parts, consumables IAW with local disposal procedures. All completed repairs and disposed parts shall be included in the Parts Repair Report (reference A019 CDRL SOW 2774, Parts Repair Report).

ID : SOWC-4476

## 4.8.8 Prohibited Parts

Except for those parts that the Government has provided a waiver IAW SOWC 245, the Contractor shall ensure that all JLTV FoV common and unique platform parts procured in support of this contract shall be free of Cadmium, Hexavalent Chromium, and other highly toxic or carcinogenic materials. Any part that the Contractor proposes to acquire, for use under this contract, that may contain any of these substances must be approved in advance by the Government. The Contractor shall dispose of any parts containing hazardous materials IAW Federal and State Regulations and disposal shall be through the local Property Disposal Office. (C104 CDRL SOWC 4476, Prohibited Parts)

ID : SOWC-4477

## 4.8.9 Petroleum, Oil and Lubricants

The Government will provide standard Petroleum, Oil and Lubricants POL supply, Gases (nitrogen, argon, oxygen, acetylene, 134 Refrigerant) in support for the maintenance of JLTV FoV.

ID : SOWC-4478

## 4.9 FIELD LOGISTICS MANAGEMENT (FLM)

The Contractor shall establish a FLM process to document issues discovered, recommend process improvements, and analyze statistical data gathered during the performance of ICS for JLTV FoV and shall brief on the following at monthly FLM review hosted by the Contractor:

- 1: Identify and investigate logistical and technical issues that affect readiness, personnel safety, TMs and IETMs, supply support, issues that garner Command interest or at the request of the Government.
- 2: Identify process improvements which could increase Unit readiness and/or reduce Government costs.
- 3: Categorize issues and improvements based upon cost, impact to vehicle readiness, and safety.
- 4: List Top 25 JLTV FoV unique replacement parts used on each JLTV FoV, the Top 5 unique replacement part by Mission Equipment Package (MEP), and the Top 10 non-unique replacement item used in support of the JLTV ICS effort. A unique part is defined as a part that is not utilized on other military applications and is only applicable to the JLTV FoV. All Lists shall be developed by performing a weighted analysis based on demands, criticality, time to replace, and dollar value.

At the Government's request, the Contractor shall perform analysis on selected issues and recommendations. This analysis will include defining the problem scope and determining the impact on ICS Sustainment cost and readiness (e.g. frequency of occurrence, failure modes

**Name of Offeror or Contractor:**

and locations, supply disruption). In addition, the Contractor shall assess the level of criticality (i.e. safety issue, operational impact, maintenance impact, obsolescence or Command interest). The Contractor will be given access to LMP and STAMIS data to support the FLM analysis. The Contractor shall provide read ahead agenda (A001 CDRL SOWC 34, Read Ahead Agenda) and meeting minutes (A002 CDRL SOWC 36, Minutes).

ID : SOWC-4479

## 4.10 INVENTORY MANAGEMENT

ID : SOWC-4480

## 4.10.1 Inventory Management Plan

The Contractor shall provide a plan to manage the inventory of parts acquired to support the JLTIV FoV. This plan shall address the Contractors plan for Inventory Control, Warehousing and limiting excess inventory. The Contractors Inventory Management plan will address and support the JLTIV FoV SAIP strategy. (C105 CDRL SOWC 4480, Inventory Plan)

ID : SOWC-4481

## 4.11 WARRANTY MANAGEMENT

ID : SOWC-4482

## 4.11.1 Warranty Coverage

If any part(s) is determined to be covered by a warranty included in this contract, the Contractor shall ensure a warranty claim to repair or replace (whichever is applicable) is processed and provided to the COR and COTR. The Contractor will be allowed to inspect defective supplies under the warranty.

ID : SOWC-4483

## 4.11.2 Warranty Coverage Database

The Contractor shall maintain warranty information in the Contractors data base. This data base will provide the coverage dates for the warranty coverage accessible to the Government's COR and COTR and other designated Government representatives. The Government representatives shall have read-only capability for this data base and possess the capability to access information for reporting purposes. The Contractor shall update the data base within five (5) working days of completion of a repair. The data base shall, at a minimum, contain the following: Vehicle Serial Number, Vehicle NSN, Model Number, NSN and PN of Replaced Part(s), Nomenclature of Replaced Parts, Cost of Repair Part(s), Unit Complete Address, Repair Completion Date, and denied claims.

ID : SOWC-4484

## 4.12 CONFIGURATION MANAGEMENT

ID : SOWC-4485

## 4.12.1 Interim Contractor Support Configuration Management

The Contractor shall submit a listing of material that no longer meets the Product Baseline with recommendations for the disposition of inventory to the PCO. The Contractor shall document actions in the DMSMS plan (reference SOWC 4362). The material disposition shall be use until exhausted, upgrade or dispose. The Contractor shall provide any ECP and ECO related data to the USG. The PCO will provide final disposition instructions of said material to allow the Contractor to take the appropriate action and adjustments of the inventory. (C106 CDRL SOWC 4485, Obsolete Material)

ID : SOWC-4486

## 4.13 SOFTWARE UPDATES

The Contractor shall provide and install software updates, as necessary, to mitigate or close vulnerabilities identified in CFE software including operating systems, applications, and firmware throughout this period of performance.

ID : SOWC-4163

## 4.14 CYBERSECURITY VULNERABILITY MANAGEMENT

The Contractor shall provide software updates, as necessary, to mitigate or close vulnerabilities identified in CFE software including operating systems, applications, and firmware throughout the life of the vehicle. The Contractor shall confirm the patching through the use of a Government accepted automated vulnerability reporting tools. (C107 CDRL SOWC 4163, Cybersecurity Vulnerability Report)

ID : SOWC-1523

## 5 TOTAL PACKAGE FIELDING

ID : SOWC-3972

## 5.1 GENERAL

Total Package Fielding (TPF) is the Army's standard materiel fielding process for new and modified materiel systems. The TPF process is designed to provide Army materiel systems to the using units, as a coordinated package of end items, support items and technical documentation, IAW (IAW) Army Regulation (AR) 700-142. The Contractor shall provide TPF services in support of both U.S. Army and USMC fielding for the JLTIV FoV.

**Name of Offeror or Contractor:**

ID : SOWC-3973

## 5.1.1 Introduction and Objectives

JPO JLTV expects to train, de-process and field vehicles over six (6) years to various locations. TPF process is to ensure gaining units are fully trained in both the operation and maintenance of new equipment and to ensure equipment is delivered to the gaining units on schedule and fully mission capable, and have the ability to operate vehicles anywhere in the world.

ID : SOWC-3975

## 5.1.2 Period of Performance

The Period of Performance (POP) will be 12 months for each option exercised, up to six (6) options for a total POP of up to six (6) years. For Option Year 1 only, the Contractor shall be fully capable of meeting all TPF requirements NLT 90 days after exercise of option. These estimated quantities are subject to change.

a. Option Year 1 POP: Field approximately 1,446 (Army) and 150 (USMC) JLTV per year.

b. Option Year 2 POP approximately 1,455 (Army) and 279 (USMC) JLTV per year.

c. Option Year 3 POP approximately 1,879 (Army) and 1,083 (USMC) JLTV per year.

d. Option Year 4 POP approximately 2,196 (Army) and 1,340 (USMC) JLTV per year.

e. Option Year 5 POP approximately 2,200 (Army) and 1,332 (USMC) JLTV per year.

f. Option Year 6 POP approximately 2,200 (Army) and 1,316 (USMC) JLTV per year. Option year six (6) is anticipated to extend beyond production year eight (8) - POP)

ID : SOWC-3976

## 5.1.2.1 Total Package Fielding and New Equipment Training Requirements

The POP includes all TPF actions and New Equipment Training (NET) (reference C.5.3.2 and C.5.4.4) required to support the fielding of JLTV FoVs to multiple locations. The Contractor shall provide TPF support for quantity identified in C.5.1.2 if options are exercised. The Contractor shall provide NET associated with each of the classes and locations, as set forth in:

Attachment 0050 (Fielding Location and Schedule)

Attachment 0033 (New Equipment Training)

ID : SOWC-3977

## 5.1.2.2 Labor Hour Usage

The Contractor shall provide the expected total number of labor hours required to complete the tasks described in this SOW for the entire duration of POP. If the Contractor anticipates a labor hour burn rate increase of more than 10% over the normal rate or anticipates that all labor hours will be exhausted prior to the last month of the POP, the Contractor shall immediately notify the PCO and provide rationale for the surge.

ID : SOWC-3978

## 5.1.3 General Information

ID : SOWC-3986

## 5.1.3.1 Recognized Holidays

Contractor employees working on Government Installations are NOT required on the following Federal Holidays:

New Year's Day

Birthday of Martin Luther King, Jr.

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veterans Day

Thanksgiving Day

Christmas Day

ID : SOWC-3987

## 5.1.3.2 Hours of Operation

The Contractor shall:

a. conduct business between the hours of 8:00 a.m. to 4:30 p.m., Monday through Friday, at both CONUS and OCONUS locations.

b. not conduct business when the Government facility is closed due to local or national emergencies, administrative closings, or similar Government directed facility closings. The Contractor shall maintain an adequate workforce for the uninterrupted performance of all tasks defined within this SOW when the Government facility is not closed for the above reasons.

c. only travel during the work week (Monday through Friday), except as authorized by the COR to meet mission requirements.

d. respond and comply with all schedule changes within seven calendar days of notification of changes as the NET and Fielding Schedules are subject to changes throughout the POP for this effort.

**Name of Offeror or Contractor:**

ID : SOWC-3988

## 5.1.3.3 Local Program Management Office

The Contractor shall establish fielding sites which are to be operational at all times during fielding or training at the following CONUS Army installations: FT Bragg, NC, FT Campbell, KY, FT Carson, CO, FT Drum, NY, FT Hood, TX, FT Lewis, WA and FT Stewart, GA, IAW the period(s) of performance and fielding schedule (reference SOWC 3975). It is the Army's intent for these locations to be a permanent presence for the period of performance of this TPF effort. These sites also include Interchange, Department of Defense (DOD) Customers, Army Reserve, and National Guard Customers at locations throughout the world. For the Marine Corps, the Contractor shall establish fielding sites (which are to be operational at all times during fielding or training IAW period(s) of performance) at Camp Pendelton, CA, and Camp Lejeune, NC, Japan (Okinawa and Iwakuni). All fielding will occur at Government facilities.

ID : SOWC-3989

## 5.1.3.4 Changes Due to Other Issues

The Contractor shall provide personnel at all times at fielding locations for additional de-processing, training, fielding, and application of kits due to Operations Tempo (OPTEMPO) changes, Deployments, Partial Fielding's, and location changes.

ID : SOWC-5281

## 5.1.3.5 CONTRACTOR PROVISIONS

The Contractor shall provide FSRs all necessary provisions, not provided by the Government, to perform the maintenance, training, and supply support TPF tasks.

ID : SOWC-3990

## 5.1.3.5.1 Common Access Cards

All Contractor personnel performing work under this effort shall obtain a Common Access Card (CAC) within 15 days (reference SOWC 5257) after exercise of option. As part of the process, an SF85P Questionnaire Trust Positions or National Agency Check with Written Inquiries and Credit Check (NACI) and a FD258 (FBI fingerprint card) are required for background vetting.

ID : SOWC-3995

## 5.1.3.5.2 Lock Combinations

The Contractor shall establish and implement methods of ensuring that all lock combinations are not revealed to unauthorized persons. The Contractor shall ensure that lock combinations are changed when personnel having access to the combinations no longer have a need to know such combinations.

ID : SOWC-3994

## 5.1.3.5.3 Prohibition on Use of Keys

The Contractor shall prohibit the use of Government issued keys by any persons other than Contractor authorized employees. The Contractor shall prohibit the opening of locked areas by Contractor employees and prohibit entrance of persons other than Contractor employees engaged in the performance of assigned work in those areas unless otherwise authorized entrance by the PCO.

ID : SOWC-3993

## 5.1.3.5.4 Lost or Stolen Keys

In the event keys are lost, stolen, damaged, duplicated, used by unauthorized persons, or otherwise mishandled, the Contractor shall re-key or replace the affected lock or locks excluding master keys. In the event a master key is lost, stolen, damaged, duplicated, used by unauthorized persons, or otherwise mishandled, all locks and keys for that system will be replaced by the Government and the total cost shall be billed to the Contractor.

ID : SOWC-3992

## 5.1.3.5.5 Key Control

The Contractor shall establish and implement procedures to ensure all Government issued keys are properly handled and are not lost, damaged or otherwise used by unauthorized persons. No Government issued keys shall be duplicated. The Contractor shall require personnel with key access to turn in Government issued key(s) when it is determined the key access is no longer required. The Contractor shall immediately report any occurrences of lost or duplicate keys to the PCO.

ID : SOWC-3991

## 5.1.3.5.6 Physical Security

The Contractor shall safeguard all Government equipment, information, and property provided for Contractor use at all times. At the close of each business day, the contractor shall secure Government facilities, equipment, and materials.

ID : SOWC-5283

## 5.1.3.5.7 Identification of Contractor Employees

All Contractor personnel attending meetings, answering Government telephones, and working in other situations where its Contractor status is not obvious to third parties are required to identify themselves as a Government Contractor. The Contractor shall also ensure that all documents or reports produced by the Contractor are marked as Contractor products (proprietary or not). When on Government property, Contractor personnel shall obtain identification badges in the performance of this service. The Contractor shall assure that

**Name of Offeror or Contractor:**

all Contractor personnel wear a visible identification badge at all times during the performance of this effort.

ID : SOWC-3996

5.1.3.6 Special Qualifications

The Contractor shall ensure FSRs have the following qualifications:

- a. Information Assurance Technician (IAT) Level Professional Training Certification, IAW AR 25-2.
- b. TPF personnel for All OCONUS Regions: OCONUS TRAVEL PRO-FILE, IAW ALARACT 098/2010.
- c. TPF personnel in Germany: The DOD Foreign Clearance Guide (Europe, Germany, Section III) - Section III - Personnel Entry Requirements for Official Travel, A. Paragraphs 8. a - c Antiterrorism (AT) Training, Statement of Force Protection (FP) responsibility, and Personnel Recovery (PR) training and documentation found at: <https://www.fcg.pentagon.mil/fcg.cfm>

ID : SOWC-3998

5.1.3.7 Contracting Officer Representative and Contracting Officer Technical Representative

The Government will designate a Contracting Officer Representative (COR) as an Action Officer for the Army and a Contracting Officer Technical Representative (COTR) for the Marine Corps. The COR and COTR are an individual designated IAW DFARS 201.602-2 and is authorized in writing by the Contracting Officer to perform specific technical functions.

The Government will provide a copy of the COR and COTR appointment letter to the Contractor immediately after award that will specify the extent of the COR's and COTR's authority to act on behalf of the Procuring Contracting Officer (PCO). The COR and COTR are NOT authorized to make any commitments or changes that will affect price, quantity, delivery or any other term or condition of this contract.

ID : SOWC-3999

5.1.3.8 Contract Administrator

The Contractor shall provide a Contract Administrator. The name of this person and an alternate, who shall act for the Contractor when the Program Manager is unavailable, shall be designated in writing to the Contract Specialist, COR, and COTR. The Contract Administrator or alternate shall have full authority to act for the Contractor on all contract matters relating to daily operation of this contract. The Contract Administrator or alternate shall be available between 8:00 a.m. to 4:30 p.m., Monday through Friday except Federal Holidays.

ID : SOWC-4001

5.1.3.9 Contractor Travel

The Contractor may be required to travel to CONUS and OCONUS locations during the performance of this effort to attend meetings and conferences, train, deprocess, and field vehicles. Travel to the same location on multiple occasions may be necessary. The Contractor may be required to ship training aids to these locations in support of this SOW. The Government will authorize travel expenses consistent with provisions of the Joint Travel Regulation (JTR) and the limitation of funds specified in this contract.

ID : SOWC-4003

5.1.3.10 Material & Equipment

ID : SOWC-4004

5.1.3.10.1 Material and Equipment Purchases with Approved Purchasing System

With a DCMA-Approved Purchasing System, the Contractor will be authorized to purchase up to \$5,000 of Material and Equipment without prior PCO approval; however, the Contractor shall receive COR or COTR approval in writing prior to purchase. The Contractor shall not purchase any Material and Equipment prior to receiving COR or COTR approval. For any purchase of Material and Equipment exceeding \$5,000, the Contractor shall submit its competitive purchase results to the PCO, COR, and COTR IAW SOWC 4005 and shall receive PCO approval prior to each purchase. (C108 CDRL SOWC 4005, Material and Equipment Purchases - Supporting Data)

ID : SOWC-4005

5.1.3.10.2 Material and Equipment Purchases with un-approved Purchasing System

If a Contractor cannot or does not verify that it has a DCMA-Approved Purchasing System, the Contractor shall submit a request to purchase all Material & Equipment purchases exceeding \$2,500 to be evaluated by the PCO, COR, and COTR for price reasonableness. The Contractor shall receive PCO approval prior to purchase. When requesting PCO approval, the Contractor shall provide the Government with the following information:

- (1) a minimum of three competitive quotes;
  - (2) the Contractor or source it intends to procure the item(s) from; and
  - (3) Substantiate or provide adequate rationale explaining why it chose the particular Contractor or source and certify in a statement that competitive quotes were acquired and the lowest quote was selected or provide rationale if the lowest quote was not selected.
- If only one or two quotes can be obtained, the Contractor shall provide rationale for not obtaining three quotes and its analysis of why the price is reasonable. The PCO will review and approve these items within seven business days of when the three above pieces of information have been received by the Government. (C108 CDRL SOWC 4005, Material and Equipment Purchases - Supporting Data)

ID : SOWC-4010

5.1.3.11 Phase Out Period

To minimize any decreases in productivity and to prevent possible negative impacts on additional services, the Contractor shall define a

**Name of Offeror or Contractor:**

phase-out period as follows:

ID : SOWC-4011

5.1.3.11.1 Phase-out Requirements

Sixty (60) days prior to the completion of this effort (to include option periods), an observation period will occur, at which time management personnel of the incoming "successor" workforce observe operations and performance methods of the incumbent Contractor. This shall allow for orderly turnover of facilities, equipment, and records and help ensure continuity of service. The Contractor shall not defer any requirements for the purpose of avoiding responsibility or of transferring such responsibility to the succeeding Contractor. The Contractor shall fully cooperate with the succeeding Contractor and the Government so as not to interfere with their work or duties.

ID : SOWC-4012

5.1.3.11.2 Phase-Out Plan

The Contractor shall establish and implement plans for an orderly phase-out of the contracted operations at the expiration of this effort. The Contractor shall submit a Phase-out Plan to the PCO, and COR 180 days prior to the end of the effort. The Contractor's phase-out procedures shall not disrupt or adversely affect the day-to-day conduct of Government business. The Contractor shall provide the Government with copies of changes and revisions to the phase out plan prior to implementation. (C109 CDRL SOWC 4012, Phase-Out Plan)

ID : SOWC-4013

5.1.3.11.3 Phase-out Transfer of Property Accountability Final Inventory

One month prior to expiration of the effort or upon notification of effort termination, an inventory of all GFP shall be conducted by the Contractor and observed by the Government.

ID : SOWC-4014

5.1.3.11.4 Final Inventory Report

The Contractor shall prepare and submit a detailed final inventory report to be approved by the JPO JLTV and the Contractor within one week of completing the Final Inventory (reference SOWC 4013). The inventory shall include the same information called for in the Current Inventory Report (reference A013 CDRL SOWC 1368, Current Inventory Report). During the final inventory, all GFP shall be jointly inspected by the Government and the Contractor. All discrepancies shall be disclosed by the Contractor and shall be corrected as determined by the PCO. At the completion of the effort, the Contractor shall return all Government property, inclusive of all addition and minus transfers or dispositions. Returned Government property shall be in the same condition as it was when it was originally furnished, less normal wear and tear. (A013 CDRL SOWC 1368, Current Inventory Report)

ID : SOWC-4015

5.1.3.11.5 Phase Out Meeting

The Contractor shall facilitate a Phase Out meeting within 15 days prior to the end of the TPF effort. The Contractor shall coordinate the details of the meeting with the COR. The meeting will be held at the JPO JLTV in Warren, Michigan or via telecom, Virtual Teleconference, or web Conference. The Contractor shall prepare and present program information to support the meeting and submit said documents to the Government three days prior to the Phase Out meeting. The Contractor shall also submit a record of the phase out meeting three days after the phase out meeting (reference (A001 SOWC 34 Agenda and Read Ahead Package) (reference A002 CDRL SOWC 36, Minutes)

ID : SOWC-4031

5.2 GOVERNMENT FURNISHED ITEMS AND SERVICES

ID : SOWC-4032

5.2.1 Services

The Government will provide the JLTV FoV, facilities, equipment, utilities, stock shop, and materials to enable the Contractor to perform TPF services as outlined in the SOW.

ID : SOWC-4033

5.2.2 Facilities

The Government will provide maintenance bays, office space, classrooms and fuel and lubricant (only fielding site) for all fielding, post fielding efforts, and NET performed by Contractor personnel per this SOW. No permanent facilities or equipment will be provided or paid for by the Government. Facilities mentioned are provided only during the Contractors fielding, post fielding, and NET effort.

ID : SOWC-4034

5.2.3 Utilities

The Government will provide utilities for facilities. The Contractor shall instruct employees in utilities conservation practices. The Contractor shall be responsible for operating under conditions that preclude the waste of utilities, which include turning off the water faucets or valves after using the required amount to accomplish cleaning vehicles and equipment.

ID : SOWC-4035

5.2.4 Equipment

The Government will provide Government Furnished Equipment (GFE) including Test Measurement Diagnostic Equipment (TMDE), desks, chairs,

**Name of Offeror or Contractor:**

office supplies, lighting, At-Platform Test Devices, and heavy lift equipment support at sites in support of TPF.

ID : SOWC-4037

**5.3 CONTRACTOR FURNISHED ITEMS AND RESPONSIBILITIES**

ID : SOWC-4038

**5.3.1 General**

The Contractor shall provide qualified personnel, equipment, supplies, facilities, transportation, tools, materials, and other items to perform TPF, as defined in this SOW except for those items specified as Government Furnished Property and Services (reference SOWC 4031). The Contractor shall perform to the standards in this effort.

ID : SOWC-4036

**5.3.2 Materials and Information**

The Contractor shall provide Interactive Electronic Technical Manual (IETM), Technical Manuals (TMs), Technical Bulletin (TB), Publications, CD or CD ROM, training videos, Maintainers Programs of Instruction (POI), initial training materials, training updates, related training material on courses audio visual aids, training aids, Web and CD Rom based Interactive Multimedia Instruction (IMI), projectors, supplies, and fielding schedule as described in this SOW. These items will support OPNET and FLMNET TSPs.

ID : SOWC-4040

**5.3.3 Equipment**

The Contractor shall provide inspection equipment, test equipment, tools, personal safety equipment including safety glasses or goggles, safety shoes, hardhats, gloves, hearing protection, and any Contractor furnished equipment required to perform work under this SOW.

ID : SOWC-4041

**5.4 TOTAL PACKAGE FIELDING TASKS**

ID : SOWC-4042

**5.4.1 Telecommunications and Automation Support**

The Contractor shall provide Telecommunications and Automation Support as described in the subparagraphs below.

ID : SOWC-4043

**5.4.1.1 Automated TPF System**

The Contractor shall establish telecommunication services with the capability to allow two-way direct line exchange of data including telecommunications, e-mail, facsimile communications, between the Contractors home base, service center, various project and product managers' offices, and JLTV FoV fielding locations worldwide. The Contractor shall ensure security measures exist at the Contractor facility when transmitting information that is classified as other than public information.

ID : SOWC-4044

**5.4.1.2 Data Management and Reporting**

The Contractor shall collect and report data to support TPF tasks as identified below:

- a. Provide equipment transfer documentation DA Form 3161 to the TPF Office, at TACOM (TACOM-LCMC.IPSC MFT-PBUSE@mail.mil) to support Property Book Unit Supply Enhanced System (PBUSE) transactions.
- b. Enter data within 24 hours of de-processing and fielding vehicles onto the Record DA Form 3161, Lateral Transfer document from fielded vehicles and transmit data in compatible electronic format, which allows for automated update to TPF Office at TACOM (TACOM-LCMC.IPSC MFT-PBUSE@mail.mil) into PBUSE.
- c. Submit written Monthly Performance and Cost Reports, electronically, that address the reporting period activities, funding, and hours expended during the reporting period (previous month), remaining funding and hours, as well as, task execution issues/proposed resolution(s).
- d. Develop and maintain a TPF Weapon System Database and shall include a Material Requirement List (MRL), DA Form 5682 to document where principal end items and kits are issued, IAW AR 700-142 and DA PAM 700-142, for each fielding. This database shall include a serial number tracking system capable of tracing all IUID information This database shall also allow for the data to be easily traced to a receiving unit or support facility that will identify each gaining unit and their support facilities equipment. This database shall be an automated tracking system which contains IUID specific to the principal end item, receiving units Department of Defense Activity Address Code (DODAAC), Unit Identification Code (UIC), handoff date, nomenclature, model number, date of manufacture, and registration number of each major end item and assembly IAW agreed upon format. The Contractor shall have the capability to provide specific information electronically, within 24 hours of a Government request. The Contractor shall deliver this database to the JPO JLTV at the end of each effort POP in a digital format. The database shall include the following categories of materiel:
  1. End Items
  2. Special Tools and Test Equipment (STTE)
  3. Authorized Stockage List (ASL)
  4. Technical Manuals, Publications, and or Interactive Electronic Technical Manuals (IETM)
  5. Basic Issue Items (BII)
  6. Components of End Item (COEI)
  7. Kits to be mounted on/in vehicles, when identified by COR/COTR and or Fielding team

**Name of Offeror or Contractor:**

e. The Contractor shall maintain and update all information, documents, associated reports, and automated databases, to include all Functional Group Codes per the appropriate TM and IETM on a weekly basis; or if not available, per TB 750-93-1 with all changes relative to the TPF process for the duration of the effort to document and provide data for actions that occurred during the duration of the effort.

(C110 CDRL SOWC 4044, DA Form 3161 Submittal)

(C111 CDRL SOWC 4044, TPF Database)

(A016 CDRL SOWC 775, Funds and Man-hours Expenditure Report)

ID : SOWC-4045

**5.4.1.3 Post Fielding Status Report**

The Contractor shall provide a Post Fielding Status Report to the COR, COTR, and Fielding Managers within 24 hours of completion of any fielding activity. The report shall include number of vehicles fielded by model, serial numbers, and any outstanding issues IAW C112 CDRL SOWC 4045, Post Fielding Status Report.

ID : SOWC-4046

**5.4.1.4 Materiel Requirement List**

The Contractor shall prepare the Materiel Requirement List (MRL) (DA Form 5682) for the JLTV FoV. The Contractor shall generate and submit a call forward for tools and ASL to keep the Contractor's TPF package database in agreement with the MRL, as the MRL document changes for each fielding during the performance of this effort. The Contractor shall update the MRL and resubmit it as a call forward for tools and ASL to the Wholesale Supply System through US Army Supply System to ensure packages are in agreement with the MRL. (reference C110 SOWC 4044, and C111 CDRL SOWC 4044, TPF Database)

ID : SOWC-4048

**5.4.2 Logistics Management**

ID : SOWC-4050

**5.4.2.1 Fielding Schedule Updates**

The Government will furnish electronic updated Fielding Schedule(s), as they become available, to support the fielding effort.

ID : SOWC-4055

**5.4.2.2 Meetings**

The Contractor shall have a Project Manager and Logistics Manager(s) present at all Weekly Fielding Meetings and New Materiel Introductory Briefings (NMIB), scheduled by the Government. The Contractor shall have detailed data on all ongoing TPF efforts available in a briefing format. The Contractor shall brief attendees on the status of pertinent fielding efforts, receive and respond to questions, and take action to resolve any issues pertaining to this effort that arise during the meetings. (reference A001 CDRL SOWC 34, Minutes)

ID : SOWC-4061

**5.4.2.3 NMIB Participation**

The Contractor shall participate with COR, Fielding Manager, or the designated representative at all NMIBs to address the following items below:

- a. Establish a detailed fielding schedule that will support the Governments planned fielding with the Gaining Units.
- b. Obtain agreement on what facilities, space, vehicles, trash receptacles, pick-up, removal, and disposition of same equipment, and materials will be provided by the gaining command and those that will be provided by the Contractor as negotiated during the NMIB.
- c. Establish a deprocessing, handoff rate, and fielding schedule consistent with facilities and equipment availability.
- d. Establish a working relationship for the receipt of end items and other fielding-related materiel through the installation Central Receiving Facilities.
- e. Identify Class III POL (Petroleum Oil Lubricant) products and blank forms that will be required to support deprocessing efforts that will be provided by the Government.

ID : SOWC-4049

**5.4.2.4 Total Package Fielding Documentation**

The Contractor shall provide Post Fielding TPF documents, IAW AR 700-142 and DA PAM 700-142, and related fielding-specific report data for each fielding supported under this effort. The Contractor shall electronically maintain all information and documents required to carry out the TPF process, along with any associated reports or automated historical databases, for the duration of the effort and mutually agreed upon computer application formats and schedules by COR and Contractor. (C113 CDRL SOWC 4069, Post Fielding TPF Documentation)

ID : SOWC-4056

**5.4.2.4.1 Weekly Fielding Reports**

The Contractor shall provide Weekly Fielding Reports that summarize worldwide JLTV FoV hand off activities. This information shall be presented at the Weekly Fielding Meetings to report the prior week's accomplishments and future fielding. The weekly reports shall summarize deprocessing, NET, and handoff activities. (C114 CDRL SOWC 4056, Weekly Fielding Reports)

**Name of Offeror or Contractor:**

ID : SOWC-4069

## 5.4.2.4.2 Joint Inventory Report and TPF After Action Report

The Contractor shall prepare and provide a Joint Inventory Report, DA FORM 5684-R, IAW DA PAM 700-142 for the gaining and fielding commands signature and provide copies to gaining command and the Fielding Manager within 30 days after each fielding.

The Contractor shall provide an After Action Report (AAR) containing shortage annexes of materiel. The Contractor shall close shortage annexes when materiel is issued to the gaining command.

(C115 CDRL SOWC 4069, Joint Inventory Report)

(C116 CDRL SOWC 4069, After Action Report)

ID : SOWC-4051

## 5.4.2.5 Inventory and Deficiencies

The Contractor and Government personnel shall conduct a 100% inventory and inspection of the JLTV FoV and TPF materiel, for count and condition at each fielding site. The Contractor shall report any deficiency or discrepancy within 24 hours IAW C117 CDRL SOWC 4051 Deficiency Reports, as follows:

a. Product Quality Deficiency Reports (PQDRs) SF368 in the Product Discrepancy Reporting Evaluation Program (PDREP) at <http://www.nslcptsmh.csd.disa.mil/pdrep/pdrep.htm> and IAW AR 702-7 for quality defects.

b. Transportation Discrepancy Reports (TDRs) for damage due to transportation by completing the DD 361 to document facts and evidence to claims offices (DFAS) for each of the Services, Defense Logistics Agency (DLA), Defense Contract Management Agency (DCMA), and the General Services Administration (GSA) National Customer Service Center to support loss and damage claims against the carrier or Contractor to ensure recovery of Government funds.

c. Supplier Discrepancy Reports (SDRs) by completing the SF 364 IAW AR 735-11-2 for overage, shortage, or incorrect items for end items and TPF materiel -- or an unacceptable National Stock Number (NSN) substitute, identified during the joint inventory/fieldings within 24 hours of discovery.

ID : SOWC-4053

## 5.4.2.6 Documentation for Audit

The Contractor shall ensure that TPF documentation is available for audit to ensure all required supply actions have been accomplished and signed hand receipts have been received for the materiel. The Contractor shall ensure that a clear and historical audit trail is preserved for all supply actions taken and Government disposition instructions are received.

ID : SOWC-4058

## 5.4.3 Deprocess and Fielding

The Contractor shall provide Deprocessing and Fielding and Post-Fielding Efforts to Support Mission Requirements and Readiness.

ID : SOWC-4059

## 5.4.3.1 Deprocessing and Hand-off

The Contractor shall conduct deprocessing and handoff at each fielding, post, installation site, or central staging site designated to support JPO JLTV fielding schedule. The Contractor shall provide personnel to execute loading, offloading, movement of end items and perform logistics management support, quality assurance, and all maintenance functions of end items for both fielded and non-fielded JLTV FoVs.

ID : SOWC-4060

## 5.4.3.1.1 Deprocessing Checklist

The Contractor shall update and provide the deprocessing checklist (Attachment 0034 SOWC 4060 Deprocessing Checklist) for each Mission Package Configuration to include kits 180 days prior to first scheduled fielding. The Contractor shall use the Government approved deprocessing checklists for all fielding. (C118 CDRL SOWC 4060, Deprocessing Checklist)

ID : SOWC-4062

## 5.4.3.2 Personnel and Safety Equipment

The Contractor shall provide all personnel and personal safety equipment required to accomplish a deprocessing and fielding mission to transmit information to the TACOM TPF Office to meet PBUSE requirements.

ID : SOWC-4063

## 5.4.3.3 Management and Movement of Materiel

The Contractor shall manage the movement of all end items at fielding sites, TMDE (to include MSDs/VADs with Inter-connecting Device (ICE)), tools, support packages, parts, supplies, publications, Interactive Electronic Technical Manuals (IETMs), and all other fielding related materiel from source into the deprocessing and fielding sites as mutually agreed upon the Government and Contractor during the NMIB. The Contractor shall be responsible for all Government Furnished Equipment (GFE) and shall sign for such property on a DA Form 3161 (Request for Issue or Turn-in) or Navy/Marine Corps Equipment Custody Record (ECR), NAVMC 10359 (reference C113 CDRL SOWC 4069 Post Fielding TPF Documentation). All Government-furnished property provided for short-term use shall be returned to the Government source of issue when no longer required in support of this effort. All items and materiel required for fielding shall be on-site and inventoried prior to every scheduled fielding.

ID : SOWC-4064

**Name of Offeror or Contractor:**

## 5.4.3.4 Contractor Performance at Fielding Site

The Contractor shall have sufficient personnel present at fielding sites based on the number of vehicles being fielded prior to the first fielding to perform inventories and to prepare vehicles and TMDE for fielding or training. For all non-major fielding sites, the Contractor shall provide sufficient personnel, based on the number of vehicles to be fielded, to accomplish inspection, perform inventories and accomplish required repairs prior to the start of training. At each site, the Contractor shall:

- a. Deprocess and perform operational checks on end items to be fielded, IAW the Government approved Deprocessing Checklist (Attachment 0034 SOWC 4060 Deprocessing Checklist) and instructions provided by the COR or PM Representative related to the JLTV FoV.
  - b. Correct or repair any deficiencies identified during de-processing.
  - c. Accomplish all necessary service and repairs identified in applicable Maintenance Allocation Charts (MAC) for preventative and corrective maintenance for Operator through Sustainment Maintenance Levels.
  - d. Perform maintenance and repair of all training vehicles to include Armor Training Vehicles.
  - e. Call forwarded for a replacement when deficiencies cannot be corrected by the Contractors TPF team,
  - f. Inform Government on all deficiencies found (reference C118 CDRL SOWC 4060, Deprocessing Checklist)
  - g. Coordinate with the Fielding Team Lead who will determine if a FSR is required for repair and correction of deficiencies.
  - h. Take appropriate action IAW the warranty provisions of the end item efforts and the appropriate Warranty Technical Bulletins.
- Deprocess/load software/perform operational checks on the MSD/VADS w/ICE and/or any future generations of this type of equipment.
- i. Prepare all paper and electronic documentation to complete fielding and comply with PBUSE requirements as set forth in AR 700-142 and DA PAM 700-142.
  - j. Conduct a closeout briefing with the respective Force Modernization Office (FMO), Unit POC, and TACOM Logistics Assistance Office (LAO), if available.
  - k. Install all kits identified and approved by COR.  
(reference C118 CDRL SOWC 4060, Deprocessing Checklist)  
(reference C113 CDRL SOWC 4069, Post Fielding TPF Documentation)

ID : SOWC-5284

## 5.4.3.5 GFE and Legacy Vehicles

The Contractor shall be responsible for the harvesting, accountability, and installation of GFE kits removed from legacy vehicles.

ID : SOWC-4065

## 5.4.3.6 Electronic Status Reporting

The Contractor shall maintain automated database and be able to electronically report, at any time, the status of all vehicles on hand, numbers and types of vehicles previously handed off by UIC, and the status of unit sets of vehicles to be handed off. (reference C111 CDRL SOWC 4044, TPF Database)

ID : SOWC-4066

## 5.4.3.7 Schedule and Component Changes

The Contractor shall make no changes to schedules or changes to the components of any unit set, without the prior written approval of the COR.

ID : SOWC-4067

## 5.4.3.8 Reporting of Unserviceable or Damaged Components

The Contractor shall inspect all end items and TPF materiel arriving at the deprocessing and fieldings site and identify all unserviceable or damaged components in the After Action Report (AAR) (reference C116 CDRL SOWC 4069, After Action Report). The AAR shall include pictures and/or schematics and line drawings of damage vehicle(s). Repairs above the maintenance functions of the Fielding Team and warranty work shall be reported through the COR or Fielding Manager.

ID : SOWC-4068

## 5.4.3.9 Property Transfer

At the time of fielding, the Contractor shall formally transfer accountability of all materiel, IAW AR 710-2 and current PBUSE requirements, by requiring the gaining units Property Book Officer to sign DA Form 3161 (Transfer/Turn-in) documentation.

ID : SOWC-4070

## 5.4.3.10 Recovery of Radio Frequency Identification

The Contractor shall recover all Recovery of Radion Frequency Identification (RFID) tags prior to hand off of vehicles to the gaining unit. All RFID tags shall be immediately returned to the production facility for reutilization.

ID : SOWC-4071

## 5.4.4 New Equipment Training

The Contractor shall provide New Equipment Training (NET) IAW the subparagraphs in this section.

ID : SOWC-4072

## 5.4.4.1 General Training Requirements

The Contractor shall conduct JLTV training to Government personnel, Contractor personnel, Marine and Soldier operators, mechanics, welders and machinists personnel in support of fielding IAW the NET Plan (Attachment 0035 SOWC 4072, NET Plan). NET Training shall consist of at least 60 percent of hands-on training. Training support shall consist of training program management, training materials

**Name of Offeror or Contractor:**

design and development, and training conduct, as described in the following paragraphs. The Contractor shall provide all training materials and conduct all training courses IAW MIL-PRF-29612B, Training Data Products, unless otherwise specified (C119 CDRL SOWC 4072, Training Products). The Contractor shall use the following as guidance: MIL-HDBK-29612-2 Part 2, Instructional Systems Development (USMC and TR 350-70 series (Army)). The Governments NET manager will decide the tasks to be taught at all NET events. All Operator, Maintenance, Welder and Machinist training products shall be delivered in Microsoft Office programs that is used by the Government and have the ability to be modified. Overall training requirements shall include:

ID : SOWC-4073

5.4.4.1.1 Operator Training

Capabilities, functions and operation of the system; preventive and corrective maintenance procedures at the organizational level (operator tasks), terrain and obstacle driving, self-vehicle recovery and dedicated vehicle recovery. The training shall include and, upon completion, enable the trainee student to: operate the system, subsystems, equipment controls, and perform routine preventive maintenance functions. The training shall emphasize hands-on instruction for operator tasks.

ID : SOWC-4074

5.4.4.1.2 Maintenance Training

Capabilities, functions and operation of the system; preventive and corrective maintenance procedures; external diagnostics and other tests; performance of system checks and verification procedures; and measured performance data. The training shall include and, upon completion, enable the trainee student to: operate the system, subsystems, and equipment controls; execute diagnostic tests with TMDE and interpret results; remove and install major components; determine if the system or subsystem is malfunctioning or not; isolate and locate malfunctions to the Line Replaceable Unit (LRU); replace defective LRUs; troubleshoot and repair system and subsystem functions, conduct Limited Technical Inspections. The training shall emphasize hands-on instruction for maintainer tasks.

ID : SOWC-4075

5.4.4.1.3 Welder and Machinist Training

Armor damage inspection, welding repair, thread repair and replacement, and quality assurance testing on welding and machinist actions. The training shall emphasize hands-on instruction for sustainer tasks.

ID : SOWC-4076

5.4.4.2 Program Training Events

The Contractor shall develop and conduct training to support the JLTIV FoV per the NET plan. Training shall be based upon the task and learning requirements for the operator, maintainer and sustainer personnel.

ID : SOWC-4077

5.4.4.3 General NET Requirements

The Contractor shall conduct New Equipment Training (NET) courses at CONUS and OCONUS locations at the designated gaining units identified in the JLTIV FoV NET Location Plan (Attachment 0033 SOWC 4077, New Equipment Training). Additional courses, if required, shall be quoted separately. Scheduling of additional courses shall depend on system availability.

ID : SOWC-4078

5.4.4.4 Training Program Management Plan

The Contractor shall prepare a Training Program Management Plan (TMP) in Contractor format which describes the Contractors approach to coordinating training evolutions, tracking instructor locations, equipment and materials of the training deliverables in support for planned training events, potential risk areas, and schedule status. The Government will use the TMP to assess the soundness of the Contractors approach and ability to meet training program milestones and events. This plan shall be updated per C120 CDRL SOWC 4078, Training Program Management Plan

ID : SOWC-4079

5.4.4.5 Training Manager

The Contractor shall appoint a Training Manager who shall be the single POC for training and courseware development matters. The duties of this Training Manager shall include, but not be limited to, developing and updating the training program management plan, development, and presentation. Additionally, the Training Manager shall be responsible for the coordination and implementation of the training.

ID : SOWC-4080

5.4.4.6 Instructors

The Contractor shall provide qualified instructors experienced with teaching methods, strategies, and techniques. Instructors shall be proficient with 1) the JLTIV FoV for operator, maintainer, and sustainer tasks, all associated tools and support equipment, and 2) the entire training program, respective to the course.

The Contractor shall provide technically qualified and certified instructors on all training and instructional materials related to the Government approved POIs. Instructor certification shall be established by: Army Basic Instructor Course (ABIC), or by a civilian certification program through public or private certification process, or by a documented Contractor certification program, approved by the Government, that requires instructors to (1) present instruction using the conference method (2) present instruction using the

**Name of Offeror or Contractor:**

demonstration method (3) present instruction using the practical exercise (PE) method.

The Contractor shall evaluate instructor ability to present instructional materials using a performance evaluation checklist (PEC). In order to successfully complete this requirement, instructors must achieve a "GO" on the final PE by presenting a combination of the conference, demonstration, and PE methods of instruction and facilitate an Action After Review (AAR) following another instructor's presentation IAW a Performance Evaluation Checklist (PEC). Upon successful completion of a Government approved Contractor certification program, instructors become certified to teach selected NET POI(s). AR 350-1 (Army Training & Leadership Development) and TR 350-70 series (Training Development) outlines requirements for instructor certifications (reference C037 CDRL SOWC 4292, Training Program Development and Management Plan).

The Contractor shall fund travel cost, at no cost to the Government, for non-certified instructors to attend the certification training. Any subcontracted training effort shall follow existing Government instructor certification procedures and related protocol for conduct of JLTV training. (C121 CDRL SOWC 4080, Instructor Certification)

ID : SOWC-4081

**5.4.4.7 Instructor Assignments**

The Contractor shall be responsible for instructors assignments and schedules to meet all JLTV training requirements. The Contractor shall provide qualified substitute instructors, if scheduled instructors are absent or otherwise not available to conduct the scheduled courses. Make-up for missed class sessions, due to the fault of the Contractor, shall be the responsibility of the Contractor. Contractor shall make-up session with no reimbursement or cost to the Government.

ID : SOWC-4082

**5.4.4.8 Instructional Methods**

The Contractor shall conduct JLTV FoV system training courses consisting of various instructional methods including lectures, demonstrations, and practical applications. No less than Sixty (60) percent of each course shall be practical application hands-on training. The student-to-instructor ratio shall not exceed 30:1 for lectures, and shall not exceed 5:1 for hands-on training, practical exercises, and practical application. Maximum class size is 30 students; minimum class size is 10 students. All training course shall make maximum usage of the TMs, IETMs, and job aids. Information in the training courses shall not contradict the TMs and IETMs. The training shall not be more than eighty (80) hours in length consisting of ten (10) eight-hour days, and shall be conducted Mondays through Fridays, beginning at 0800 on the first day. Government approval is required to extend the class length beyond eighty (80) hours. When training is conducted at a non-Government facility, the Contractor shall include as part of the proposal a listing of housing and messing facilities, and transportation available in the area of the training site, unless otherwise required and mutually agreed between the Government and the Contractor. The Government reserves the right to have Government or military training SMEs observe the Contractors conduct of training using USMC NAVMC 1553.2 Observation Checklist (reference Attachment 0049 SOWC 4297, Observation Checklist), and will notify the training manager of any discrepancies or recommendations.

ID : SOWC-4083

**5.4.4.9 Cleanup of Training Areas**

Instructors shall be responsible for the cleanup of the shop and classroom training area. They shall also be required to return all training sites to original condition. Instructors shall be cognizant of environmental and hazardous material regulations and local policies at the training location; and in the event of an accident or incident involving hazardous materials (HAZMAT) or environmentally sensitive areas, the Contractor instructors shall take appropriate actions to contain the problem immediately and notify proper authorities IAW local environmental and HAZMAT requirements.

ID : SOWC-4084

**5.4.4.10 Training Syllabus and Program of Instruction**

The Contractor shall provide for each program event and iteration of training, a training syllabus for USMC and Program of Instruction (POI) for the Army and shall be included in the Training Support Package (TSP). The training syllabus and POI shall be IAW MIL-PRF-29612B, Training Data Products for USMC and TR 350-70 series for Army. The training syllabus and POI shall contain course objectives, the daily training schedule, criteria for successful completion, grading procedures, names of instructors and instructor contact information, in case of emergency. A condensed daily training schedule, for each day of the course, will be provided to each student separately from the POI. A class roster shall be provided to the Government on the first day of training, monitored throughout the training course and included in the final class documentation. (C122 CDRL SOWC 4084, Training Support Package)

ID : SOWC-4085

**5.4.4.11 Training Materials Changes**

The Contractor shall develop training materials changes to be incorporated into the Training Support Packages (reference C122 CDRL SOWC 4084, Training Support Packages). These changes shall be based upon comments received in the course critiques and mutually agreed between the Government and the Contractor based upon training requirements documented in the Government-approved Instructional Performance Requirements Document (reference C043 CDRL SOWC 4306, Training Task Data). The Contractor shall provide the Government with Training Materials Change data for the course within ten (10) working days from completion of each training course. (C123 CDRL SOWC 4085, Training Materials Change Data)

ID : SOWC-4086

**5.4.4.12 Class Room Set-Up**

**Name of Offeror or Contractor:**

The Contractor shall provide all required training equipment and materials when training is at Government or military facilities. The Contractor shall be responsible to provide all Student and Instructor training guides, view graphs, slides and multi-media materials necessary to provide a complete course of instruction.

ID : SOWC-4087

## 5.4.4.13 Start of Class

The Contractor shall be responsible for ensuring instructors are on-site 30 minutes prior to start of class. The Contractor shall verify with the unit or organization point of contact to ensure all training aids, equipment, training materials, classrooms, and all items required to conduct the training are on-hand prior to start of class. If the required training materials, equipment, or facilities are not available, the Contractor shall notify the COR and NET Manager. The COR and NET Manager will notify the Contractor on the decided course of action to be taken to rectify the situation or problem.

ID : SOWC-4088

## 5.4.4.14 Course Completion Certificate

The Contractor shall provide each student with a course completion certificate, in Government approved Contractor format that states the type and location of training, number of hours, student name, completion date, and will be signed by the lead Contractor instructor or NET Manager at the conclusion of each NET class. The Government will review the certificate template and provide corrections, if required. (C124 CDRL SOWC 4088, Course Completion Certificate)

ID : SOWC-4089

## 5.4.4.15 Class Demographic Data

The Contractor shall record and provide to the Government the class demographic data for each JLTV training course. The data elements are type and location of training, a student roster containing student name, rank, Military Occupational Specialty (MOS), unit and location, telephone and DSN numbers, and names of instructors. The class roster shall be provided to the Government on the first day of training, monitored throughout the training course and included in the final class documentation. (C125 CDRL SOWC 4089, Course Completion Data)

ID : SOWC-4090

## 5.4.4.16 Training After Instruction Report or an After Action Review

The Contractor shall administer an After Instruction Report (AIR) for USMC or an After Action Review (AAR) for Army to the students at the end of each courses iteration using Attachment 0082 4304 (After Instruction Report or an After Action Review.) and provide to the Government. Content of the AIR and AAR will be tailored to the specific course taught and submitted to the Government for review (reference C122 CDRL SOWC 4084, Training Support Package). The purpose for this data collection is to provide both the Contractor and Government the areas of the training that may need changes implemented. (C126 CDRL SOWC 4090, Training Products)

ID : SOWC-4092

## 5.4.4.17 Lesson Plans

The Contractor shall utilize the Government approved Lesson Plans (reference C045 CDRL SOWC 4309, Lesson Plans) in support of NET.

ID : SOWC-4093

## 5.4.4.18 Instructors Guides

The Contractor shall utilize developed Instructors Guide (IG) (reference C046 CDRL SOWC 5280, Instructor Guides) that includes slide presentations for the instructor to utilize while conducting the training and can be used as part of the Training Support Package (TSP). The IG shall include all the information located in the lesson plans, plus the information in the visual aids.

ID : SOWC-5285

## 5.4.4.19 Student Guides

The Contractor shall utilize developed Student Guide (reference C047 CDRL SOWC 4310, Student Guides). The Student Guides shall contain information that enhances student mastery of learning objectives, and shall provide information and summaries relevant to each period of instruction to include training objectives, lesson outlines, and technical references.

ID : SOWC-4094

## 5.4.4.20 Training Test Package

The Contractor shall utilize the Government approved Training Test Package (reference C048 CDRL SOWC 4311, Training Test Package) which shall include written and performance tests for the examination of an individual's knowledge, skills, abilities, and achievement of terminal and enabling learning objectives. Written test items shall be a mix of multiple choice, fill-in-the-blank questions, labeling, matching and short answer based on the learning domain of the learning objective. Performance tests shall be in checklist format and have rubrics for grading performance. Instructions to the evaluator and student shall be contained in both evaluator and student copies. Version control and integrity of the tests shall be the responsibility of the Contractor.

ID : SOWC-4095

## 5.4.4.21 Job Aids

The Contractor shall utilize the Government approved Job Aids (reference C049 CDRL SOWC 4312, Job Aids) developed into the training program. Job Aids are considered a facet of the Training Support Package. Development of Job Aids will be approved by the Governments

**Name of Offeror or Contractor:**

NET Manager.

ID : SOWC-4096

**5.4.4.22 Equipment Check**

Instructors shall check all equipment used as training aids prior to and after training to ensure it meets 10/20 standards, IAW DA 700-142. If the equipment does not meet 10/20 standards, the instructors shall notify the NET Manager of the problem(s) found. Instructors shall perform PMCS before and after operation of the equipment, ensure that all defective equipment and components are reported to the NET Manager, and repairs are accomplished IAW 10/20 standards. If extended training is performed at any given Command, training vehicles shall be returned to the de-processing site after accumulating no more than 400 miles and exchanged for another training vehicle(s.) This process shall be repeated until training is completed or no other training assets are available from the de-processing site.

ID : SOWC-4097

**5.4.4.23 Conduct of Trainers**

New Equipment Training Team Instructors shall be helpful, timely, and professional in providing JLTV Training and in dealing with students, unit commanders, fellow instructors, and personnel of the NET Group. The Training Manager shall:

- a) For the Army, contact the TACOM LCMC Logistics Assistance Office (LAO) at the installation, if available.
- b) For USMC, contact the Marine Expeditionary Force (MEF) Motor Transport Officer or Chief at the installation, if available
- c) Meet the POC or the sponsor of the course upon arriving at the training site.
- d) When the Contractor is required to deprocess equipment before training takes place, the Contractor shall make arrangements with coordination and approval of the COR, NET Manger for its instructors to be at the training site 30 minutes to prepare the equipment and set up the training.

ID : SOWC-4098

**5.4.4.24 Training Consumables**

The Contractor shall be responsible for maintaining and providing an adequate supply of training consumables to perform all hands-on training tasks. Consumables, such as seals and gaskets, shall be used conservatively and only be replaced at the end of each training effort.

ID : SOWC-4099

**5.4.4.25 Training Supplies and Materials**

The Contractor shall reproduce all training materials, including audiovisual aids, technical manuals and Interactive Electronic Technical Manuals (IETMs) required supporting training (reference C119 CDRL SOWC 4072, Training Products). The Contractor shall ensure that the Government NET Manager is kept informed of quantities of training support materials required to ensure an adequate supply is kept on hand to meet the training schedule. Master copies of all training material will be provided to the Government. The Contractors instructors shall ensure that all students in attendance receive a copy of training materials. The Contractor shall provide necessary training materials for any subcontracted training efforts.

ID : SOWC-4100

**5.5 PHYSICAL SECURITY PLAN**

The Contractor shall establish, implement, and deliver a Physical Security Plan. The Contractor shall be subject to unannounced physical security inspections by the COR, PCO or other designated US Government Representative. The plan shall outline procedures to provide internal safeguards for the security of all GFP and all property to include access keys in the possession of the Contractor for the performance of required services. Additionally, the Contractor's plan shall detail how it intends on handling the security of the facilities to include leased building(s). (C127 CDRL SOWC 4100, Physical Security Plan)

ID : SOWC-4101

**5.6 SAFETY PLAN**

The Contractor shall comply with applicable Government health and safety regulations. The Contractor shall prepare, maintain, and deliver a Safety Plan for the efficient, effective, and safe operation of the Contractor operated maintenance facilities. (C128 CDRL SOWC 4101, Safety Plan)

\*\*\* END OF NARRATIVE C0001 \*\*\*

**CONTINUATION SHEET****Reference No. of Document Being Continued**

Page 131 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

## SECTION D - PACKAGING AND MARKING

<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
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D-1	52.211-4517 (TACOM) PACKAGING REQUIREMENTS (COMMERCIAL)	DEC/2007
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(a) The preservation, packing, and marking requirements for this contract/order shall be accomplished in accordance with the performance requirements defined herein. The following Packaging requirements shall apply:

LEVEL OF PRESERVATION: Commercial

LEVEL OF PACKING: Commercial

QUANTITY PER UNIT PACKAGE: 001

(1) Packaging: Preservation, packaging, packing, unitization and marking furnished by the supplier shall provide protection for a minimum of one year and meet or exceed the following requirements. It also provides for multiple handling, redistribution and shipment by any mode.

(2) Cleanliness: Items shall be free of dirt and other contaminants which would contribute to the deterioration of the item or which would require cleaning by the customer prior to use. Coatings and preservatives applied to the item for protection are not considered contaminants.

(3) Preservation: Items susceptible to corrosion or deterioration shall be provided protection by means of preservative coatings, volatile corrosion inhibitors, desiccants, waterproof and/or watervaporproof barriers.

(4) Cushioning: Items requiring protection from physical and mechanical damage (e.g. fragile, sensitive, material critical) or which could cause physical damage to other items, shall be protected by wrapping, cushioning, pack compartmentalization, or other means to mitigate shock and vibration to prevent damage during handling and shipment.

(b) Unit Package: A unit package shall be so designed and constructed that it will contain the contents with no damage to the item(s), and with minimal damage to the unit pack during shipment and storage in the shipping container, and will allow subsequent handling. The outermost component of a unit package shall be a container such as a sealed bag, carton or box. Unit packs shall be designed to conserve weight and cube while retaining the protection required and enhancing standardization.

(c) Unit Package Quantity: Unless otherwise specified, the unit package quantity shall be one each part, set, assembly, kit, etc.

(d) Intermediate Package: Intermediate packaging is required whenever one or more of the following conditions exists:

- (1) The quantity is over one (1) gross of the same national stock number,
- (2) Use enhances handling and inventorying,
- (3) The exterior surfaces of the unit pack is a bag of any type, regardless of size,
- (4) The unit pack is less than 64 cubic inches,
- (5) The weight of the unit pack is under five (5) pounds and no dimension is over twelve (12) inches.

Intermediate containers shall be limited to a maximum of 100 unit packs, a net load of 40 pounds, or a maximum volume of 1.5 cubic feet, whichever occurs first.

(e) Packing:

(1) Unit packages and intermediate packages not meeting the requirements for a shipping container shall be packed in shipping containers. All shipping containers shall be the most cost effective and shall be of minimum cube to contain and protect the items.

(2) Shipping Containers: The shipping container (including any necessary blocking, bracing, cushioning, or waterproofing) shall comply with the regulations of the carrier used and shall provide safe delivery to the destination at the lowest tariff cost. The shipping container shall be capable of multiple handling, stacking at least ten feet high, and storage under favorable conditions (such as enclosed facilities) for a minimum of one year.

(f) Unitization: Shipments of identical items going to the same destination shall be palletized if they have a total cubic displacement of 50 cubic feet or more unless skids or other forklift handling features are included on the containers. Pallet loads must be stable, and to the greatest extent possible, provide a level top for ease of stacking. A palletized load shall be of a size to allow for placement of two loads high and wide in a conveyance. The weight capacity of the pallet must be adequate for the load. The preferred pallet is a 40 x 48 inch, 4-way entry pallet although variations may be permitted as dictated by the characteristics of the items being unitized. The load shall be contained in a manner that will permit safe handling during shipment and storage.

**Name of Offeror or Contractor:**

(g) Marking:

(1) All unit packages, intermediate packs, exterior shipping containers, and, as applicable, unitized loads shall be marked in accordance with MIL-STD-129, Revision P, Change Notice 4, dated 19 Sep 2007, including bar coding and Military Shipment Label (MSL). The contractor is responsible for application of special markings as discussed in the Military Standard regardless of whether specified in the contract/order or not. Special markings include, but are not limited to, Shelf-life markings, structural markings, and transportation special handling markings. The marking of pilferable and sensitive materiel will not identify the nature of the materiel. Passive RFID tagging is required in all contracts that contain DFARS clause 252.211-7006. Contractors must check the solicitation and/or contract for this clause. For details and most recent information, see <http://www.acq.osd.mil/log/rfid/index.htm> for the current DoD Suppliers Passive RFID Information Guide and Supplier Implementation Plan. If the item has Unique Item Identifier (UII) markings then the concatenated UII needs to be 2D bar coded and applied on the unit package, intermediate and exterior containers, and the palletized unit load.

(h) Hazardous Materials (As applicable):

(1) Hazardous Materials is defined as a substance or waste which has been determined by the Secretary of Transportation to be capable of posing an unreasonable risk to health, safety, and property when transported in commerce and which has been so designated. (This includes all items listed as hazardous in Titles 29, 40 and 49 CFR and other applicable modal regulations effective at the time of shipment.)

(2) Packaging and marking for hazardous material shall comply with the requirements herein for the mode of transport and the applicable performance packaging contained in the following documents:

- International Air Transport Association (IATA) Dangerous Goods Regulations
- International Maritime Dangerous Goods Code (IMDG)
- Code of Federal Regulations (CFR) Title 29, Title 40 and Title 49
- Joint Service Regulation AFJMAN24-204(I)/TM38-250/NAVSUPPUB 505/MCO P4030.19(I)/DLAM 4145.3(I) (for military air shipments).

(3) If the shipment originates from outside the continental United States, the shipment shall be prepared in accordance with the United Nations Recommendations on the Transport of Dangerous Goods in a manner acceptable to the Competent Authority of the nation of origin and in accordance with regulations of all applicable carriers.

(4) A Product Material Safety Data Sheets (MSDS) is required to be included with every unit pack and intermediate container and shall be included with the packing list inside the sealed pouch attached to the outside of the package.

(i) Heat Treatment and Marking of Wood Packaging Materials: Boxes/pallets and any wood used as inner packaging made of non-manufactured wood shall be heat-treated. All WPM shall be constructed from heat treated (treated to 56 degrees Celsius -core temperature- for 30 minutes) lumber and certified by an accredited agency accredited by the ALSC in accordance with Wood Packaging Material Policy and Wood Packaging Material Enforcement Regulations (see URL: <http://www.alsc.org>). The box/pallet manufacturer and the manufacturer of wood used as inner packaging shall ensure traceability to the original source of heat treatment. Marking: Each box/pallet shall be marked to show the conformance to the International Plant Protection Convention Standard. The quality mark shall be placed on both ends of the outer packaging, between the end cleats or end battens. Pallet markings shall be applied to the stringer or block on diagonally opposite sides and ends of the pallet and be contrasting and clearly visible. All dunnage used in configuring and/or securing the load shall also comply with ISPM-15 and be marked with an ALSC approved dunnage stamp, marked at two foot intervals (in the case of dunnage shorter than 2 feet, each piece must still have the mark present). Foreign manufacturers shall have the heat treatment and marking of non-manufactured wood products verified in accordance with their National Plant Protection Organizations compliance program.

(j) Quality Assurance: The contractor is responsible for establishing a quality system. Full consideration to examinations, inspections, and tests will be given to ensure the acceptability of the commercial package.

(k) SUPPLEMENTAL INSTRUCTIONS: N/A

[End of Clause]

1 PRESERVATION, PACKING AND MARKING

1.1 JLTV Systems/End Items

The Contractor shall preserve and package JLTV Systems/end items in accordance with the contract and the requirements defined herein. All items deliverable under this contract shall be packaged and packed in accordance with 52.211-4517 and MIL-STD-129.

1.1.1 Software, Technical Data, and Reports

The Contractor shall preserve and package required software, technical data and reports delivered under this contract to deter theft and assure safe arrival to the destination without damage to contents. All software, technical data, and reports, shall be identified by the prime contract number, name and address of the prime contractor, and where applicable, the name and address of the subcontractor

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-14-R-0039 <b>MOD/AMD</b>	<b>Page</b> 133 <b>of</b> 265
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**Name of Offeror or Contractor:**

generating the data.

1.1.2 Consumable items, Training Aids, System Support Packages (SSP) and Special Tools  
Consumable items, Training Aids, System Support Packages (SSP) and Special Tools scheduled for shipment shall be preserved and packaged by the Contractor to provide physical and mechanical protection, multiple handling, and shipment within the military distribution system. Packaging shall accommodate placement into storage for a period of one (1) year in an enclosed environmentally controlled facility and shall still be suitable for redistribution without additional repackaging.

1.1.3 Authorized Stockage Level (ASL)  
If ASL is procured under this contract it shall be packed for storage for not less than 180 days. ASL parts shall be marked so they can be kept segregated from normal stock. As a minimum the parts shall be marked identifying it as ASL stock, part number, CAGE and nomenclature. Include a packing list in each ASL shipping container.

1.2 Spare/Repair Parts  
The Contractor shall preserve and package spare and repair parts in accordance with the Government approved packaging data generated and submitted by the Contractor (reference C.2.3.7 through C.2.3.7.8.9). Spare/Repair parts for JLTV Systems for which data has yet to be developed shall be preserved and packed in accordance with clause 52.211-4517.

\*\*\* END OF NARRATIVE D0001 \*\*\*

**CONTINUATION SHEET****Reference No. of Document Being Continued**

Page 134 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

## SECTION E - INSPECTION AND ACCEPTANCE

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
E-1	52.246-2	INSPECTION OF SUPPLIES--FIXED-PRICE	AUG/1996
E-2	52.246-3	INSPECTION OF SUPPLIES--COST-REIMBURSEMENT	MAY/2001
E-3	52.246-16	RESPONSIBILITY FOR SUPPLIES	APR/1984

E-4	52.246-11	HIGHER-LEVEL CONTRACT QUALITY REQUIREMENT	FEB/1999
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The Contractor shall comply with the higher-level quality standard selected below. [If more than one standard is listed, the offeror shall indicate its selection by checking the appropriate block.]

Title	Number	Date	Tailoring
Quality Management Systems	ISO/TS-16949:2009	2009-06-15 (Third Edition)	None
-- Particular requirements for the application of ISO 9001:2008 for automotive production and relevant service part organizations			

(End of Clause)

E-5	52.209-4000 (TACOM)	NOTICE REGARDING FIRST ARTICLE TEST SAMPLE	MAR/2000
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(a) The approved first article items, as described elsewhere in this contract, consist of a quantity of 38 vehicles (33 FUSL; 3 AFES; 2 RC) that will be consumed or destroyed in testing. Any items consumed or destroyed in testing shall not be delivered as part of the contractually required quantity as set forth in the schedule. The cost of any items that are consumed or destroyed shall be included in the overall offer or contract price. A quantity of 117 vehicles that successfully passes all specified tests, less the destructive tests, if any, SHALL serve as a manufacturing standard for the remainder of the contract.

(b) A manufacturing standard is an item, which conforms to all technical performance requirements. A manufacturing standard will serve as 1) an aid in identifying configuration changes not controlled by the contractual design. 2) as an aid in identifying any process changes, or 3) as the approved workmanship sample, when required, unless alternate samples are submitted for specific characteristics by the Contractor and approved by the Government.

(c) The manufacturing standard will only be used to supplement contractual acceptance/rejection criteria for those process characteristics that require approved workmanship samples. For other characteristics, if configuration or process changes are identified in production units, the contractor will notify the contracting officer for disposition. Manufacturing items that serve as a manufacturing standard may be delivered as part of the contractual quantity with the last shipment made under this contract provided it meets all contractual requirements existing at time of delivery.

E-6	52.242-4013 (TACOM)	BALLISTIC TESTING	OCT/2008
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(a) In addition to inspection requirements set forth in applicable drawings and/or specifications, the specification(s) indicated below shall apply to this contract:

12472301: TACOM GCVWC ALUMINUM  
12479550: TACOM GCVWC STEEL

(b) The above specifications require Ballistic Testing unless specifically waived by drawing or other contractual document. Prior to production and during production, if required by specification, the quantity of test samples required by any of the above specifications shall be accompanied by test data required by individual specification. The test data shall include:

(1) Declared chemical analysis and chemical analysis results representing material for test (if required by specification).

(2) Mechanical Properties Test Results (if required by specification).

(3) Charpy Impact Test results representing material for test (if required by specification).

(4) Brinell or Rockwell hardness test results representing material for test (if hardness values are required by specification).

(5) Radiographic Inspection Record to include data required by ASTM E1742, including marking and acceptance requirement. (If

**CONTINUATION SHEET**

Reference No. of Document Being Continued

Page 135 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

Radiographic Inspection is required by the specification.)

(6) Stress Corrosion Resistance Test results required by paragraph 3.4 of MIL-DTL-46063 and paragraph 3.5 of MIL-DTL-46027 (if required by the contract or specification).

(c) In addition to the requirements in paragraph (b), test plates related to qualification of weld procedure or weld repair procedure shall be accompanied by data to include information required by format of specification and shall also identify position of welding. (If Ballistic Qualification of Weld Procedure is required by specification). Unless otherwise specified by the applicable drawing/specification, or contractual clause, a minimum of one ballistic test specimen shall be prepared for each material thickness, joint design, configuration and weld procedure.

(d) Items to be tested shall be marked to include all marking requirements of the individual specification. Further, Identify P/N(s) which the test item represents.

(e) The Contractor may use its own form to supply required data specified in paragraphs (b) and (c) above. The data shall accompany test samples and shall be forwarded to:

Commander  
US Army Aberdeen Test Center  
400 Collieran Rd.  
Bldg 358 (ext 3-4938)  
ATTN: TEDT-AT-SLV (D. Gessleman)  
Armor Acceptance-B690  
APG, MD 21005-5059

IMPORTANT: Contractor must obtain approval from PCO prior to shipping test samples to APG. ALSO, the contractor shall clearly mark the Developmental Test Command Project Number on the outside of the shipping container. \*

\*The Developmental Test Command Project Number will be provided by the PCO after the supplier notifies the PCO of the approximate shipping date of the ballistic test samples.

(f) One copy of the required data (see paragraph (e)), not to include test samples, shall be forwarded to the U.S. Army Tank-automotive and Armaments Command, ATTN: AMSRD-TAR-E/AMSRD-TAR-R, Warren, MI 48397-5000. Data shall be verified for accuracy by Government Representatives (QAR) at the Contractor's facility.

(g) In order for the Procuring Activity to obtain ballistic test funds in a timely manner, the contractor shall adhere to the following: At least 60 days prior to shipment of ballistic test samples, the Contractor shall furnish written notification to the U.S. Army Tank-automotive and Armaments Command, ATTN: AMSRD-TAR-E/AMSRD-TAR-R, Warren, Michigan 48397-5000, with a copy furnished to the Administrative Contracting Officer advising of the approximate shipment date. This information shall include:

- (1) Prime Contractor:
- (2) Prime Contract Number:
- (3) Material Specification:
- (4) Number of Test Samples:
- (5) Heat Numbers:
- (6) Sample Weight:
- (7) Sample Dimensions:
- (8) Steel/Aluminum/Composite Manufacturer
- (9) Part Number

[End of Clause]

E-7            52.211-4017            REQUIREMENTS FOR PRETREATMENTS AND CHEMICAL AGENT RESISTANT COATINGS            MAR/2014  
(TACOM)            LOCAL WARREN - PAINTED MATERIEL

(a) Scope

(1) This clause applies to contracts requiring Chemical Conversion Coatings and Pretreatments for Metallic Substrates, Chemical Agent Resistant Coating (CARC), and their related materials. The requirements in this clause clarify and supplement those in the contract, unless nullified elsewhere in the contract or through an approved Request for Deviation.

(2) Coating qualification, spot paint repair, and MIL-DTL-16232 Phosphate Coating, Heavy, Manganese or Zinc Base coatings are not within the scope of this clause.

(b) Definitions

(1) The contracting agency, appropriate agency, procuring authority, engineering authority, procuring agency, and procuring

**Name of Offeror or Contractor:**

activity is the PCO or designee.

(2) The prime contractor is the company awarded this contract, and the subcontractors comprise all companies involved in providing coated parts to the prime contractor, including companies that apply the coatings.

(c) General Requirements Clarifications

(1) The government retains the right for onsite verification of the prime contractors and its subcontractors products, processes, procedures, and test reports.

(2) The prime contractor shall be responsible for itself and its subcontractors to produce and maintain detailed process control plans, process control data, pre-production approval testing, ongoing quality control & quality control testing, and test reports. This information shall be available upon government request.

(3) The prime contractor shall immediately notify the PCO and the Defense Contract Management Agency (DCMA) of any failure to meet preproduction and production requirements.

(4) Each cleaning method shall be treated as a separate step in the process documentation.

(5) The Gage Repeatability and Reproducibility (Gage R&R) error shall be less than 30 percent for all process and product measurement systems.

(6) Products with hexavalent chromium, including but not limited to certain fastener finishes, shall not be used. Additionally, CARC topcoats containing siliceous additives to control gloss are prohibited.

(7) CARC primer and CARC topcoat shall not be applied directly to bare metal or plastic, except as provided for in MIL-DTL-53072.

(8) If the contract specifies application of CARC materials over a non-CARC coating, then both CARC primer and CARC topcoat are required. The complete coating system shall meet the requirements for CARC defined in TT-C-490.

(9) Neutral salt spray (NSS) testing shall not be used to validate compliance with materiel life cycle requirements; NSS is a production quality test and does not predict field performance.

(d) Pre-Production Approval Clarifications

(1) Pre-production testing shall include:

(i) Thickness of each layer of the coating system;

(ii) Coating system adhesion;

(iii) Salt spray performance; and

(iv) For phosphate pretreatments, the phosphate coating weight, crystal size and shape, and scanning electron microscope photos of the phosphate coatings at 500x and 1000x magnification.

(2) Pre-production test samples shall be from the material used for production parts, pieces cut from production representative parts, or production representative parts. Standardized test coupons shall not be used.

(3) Nine samples shall be produced for the required testing and shall include: three cleaned and pretreated test samples, three samples with the complete paint system and, depending on the CARC paint system, either three samples with pretreatment plus primer or three samples with metal-rich primer plus primer.

(4) One or more ISO 17025 laboratories shall conduct pre-production testing on the nine test samples in accordance with (IAW) the applicable test method accreditations. The applicable ISO 17025 test method accreditations include ASTM B117 Salt Spray, ASTM B244 Thickness of Non-Conductive Coatings on Non-Magnetic Metals, ASTM B487 Measurement of Metal and Oxide Coating Thickness, ASTM B499 Thickness of Non-Conductive Coatings on Magnetic Metals, and ASTM D3359 Measuring Adhesion by Tape Test.

(5) Unless required elsewhere in the contract and specifications, the CARC coating system applied to hot and cold rolled steel shall meet a minimum of 336 hours neutral salt spray resistance IAW ASTM B117.

(6) Test procedures shall be submitted IAW the Contract Data Requirements List (CDRL) DI-NDTI-80603 documenting Pretreatment and Chemical Agent Resistant Coating procedures when this CDRL is included in the contract.

(7) Test reports from the ISO 17025 accredited labs shall be submitted for Pretreatment and Chemical Agent Resistant Coating testing specified in paragraph (d)(4) of this clause IAW the Contract Data Requirements List (CDRL) DI-NDTI-80809 when this CDRL is included in the contract.

(e) Production Testing Clarifications

(1) At a minimum, ongoing production quality tests shall be conducted and recorded daily for coating adhesion and coating thickness, and monthly for salt spray testing. Use of ISO accredited laboratories is optional for these ongoing tests of production parts.

(2) Production parts or pieces cut from production parts shall be used for ongoing production quality testing. Standardized test coupons shall not be used.

(3) Unless specified elsewhere in the contract and specifications, the CARC coating system applied to hot and cold rolled steel shall meet a minimum of 336 hours neutral salt spray resistance IAW ASTM B117.

(End of Clause)

E-8 52.246-4028 INSPECTION AND ACCEPTANCE POINTS: ORIGIN  
(TACOM)

NOV/2005

The Government's inspection and acceptance of the supplies offered under this contract/purchase order shall take place at ORIGIN. Offeror must specify below the exact name, address, and CAGE of the facility where supplies to be furnished under this contract/purchase order will be available for inspection/acceptance.

INSPECTION POINT:

**CONTINUATION SHEET**

Reference No. of Document Being Continued

Page 137 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

(Name)

(CAGE)

(Address)

(City)

(State) Zip)

## ACCEPTANCE POINT:

(Name)

(CAGE)

(Address)

(City)

(State) (Zip)

[End of Clause]

## E.1 QUALITY ASSURANCE

E.1.1 QUALITY ASSURANCE PROGRAM REQUIREMENTS. The Contractor shall develop, implement, and maintain a quality system acceptable to the Government for all supplies and services to be provided under this contract. At the time of contract award, the Contractor shall be at a minimum third party certified to ISO 9001:2008 Quality Management Systems Requirements by an International Automotive Oversight Board (IAOB) registrar and shall be compliant to ISO/TS16949:2009, Quality Management Systems, Particular Requirements for the Application of ISO9001:2008 for Automotive Production and Relevant Service Part Organizations. In the event that the Contractor has not been certified by an IAOB registrar to ISO/TS16949:2009 at the time of contract award, the Contractor shall achieve certification no later than 3 years after contract award. If contractor fails to achieve ISO/TS16949:2009 certification in 3 years the Government will cease acceptance of vehicles until contractor is certified. The Contractors Quality System requirements shall apply at the place of vehicle in-process and final assembly, presentation, and inspection. The quality system shall address all software and hardware contractual requirements. The quality system and manual shall follow the guidelines within ISO 9004:2009. The quality manual shall be updated as required and delivered to the Government IAW CDRL E001 SOWE 1.1., Quality Manual. ( CDRL E001SOWE 1.1., Quality Manual)

E.1.1.2 SOFTWARE QUALITY ASSURANCE PLAN. The Contractor shall develop and deliver a JLTV Software Quality Assurance Plan and systematic approach to evaluate effectiveness and conformity with software product design requirements, processes, and procedures. All JLTV software shall follow the processes in accordance with the Contractor developed SQAP. (CDRL E002SOWE 1.1.2, SQAP)

## E.1.2 QUALITY MANAGEMENT.

E.1.2.1 PRIME CONTRACTOR MANAGEMENT SYSTEM. The prime Contractor shall document and verify their review and acceptance of the subcontractors quality assurance system including control plans. Documentation shall be made available for review upon Government request. If determined to be acceptable, the Prime Contractor should use the subcontractor's accepted system when conducting quality audits. The Government reserves the right to perform quality audits at the prime contractors and subcontractors facilities.

E.1.2.2 QUALITY PLANNING. The Contractor and subcontractors shall establish Product Quality Plans and Control Plans that define the steps necessary to assure that the product meets the customers needs and expectations in a timely matter. The Contractor and subcontractors shall assign responsibility for organizing a cross-functional team to a member of their own management staff. The cross functional team shall use a multi-disciplinary approach for decision making that utilizes Advanced Product Quality Planning and Control. Plan Techniques that ultimately define and document how the requirements for quality will be met. Team actions shall include but not be limited to:

- a. Development/finalization of special characteristics
- b. Development and review of both Design and Process Failure Mode and Effects Analysis (FMEAs)
- c. Development of control plans
- d. Utilization of analytical tools for both the design and production phases

E.1.3 CONTROL PLANS. The contractor shall develop and maintain process control plans that ensure compliance with the requirements in this contract. They must involve the entire production system as well as any STS and prototype work. Specific operations in the manufacture of the JLTV products must be identified that are used to ensure conformance to the requirements. The Control Plans shall include outputs from the Process FMEA. Special or key characteristics, whether identified by the customer (for example Key Product Parameters) or the contractor, must be used in the development of the control points. They must also include specific response plans when any undesirable measurement results are obtained. The response plans, in conjunction with the inspection/test frequency shall ensure that zero suspect material leaves the contractors facility in the event of a nonconforming measurement. The control plans shall be treated as a living document and shall always reflect the current process. Control plans shall be controlled documents and retained for the life of the contract. The Contractor shall submit their Control Plans to the Government six months after contract award. (E003 CDRL E003 SOWE 1.3, Control Plans)

E.1.4 SUPPLIER QUALITY ASSURANCE PROGRAM. The Contractor shall have a supplier quality assurance program that requires certification to ISO9001:2008, as a minimum, for each supplier. The Contractors supplier quality assurance program shall assure each supplier has a documented quality system which includes development, implementation, and maintenance of quality procedures, work instructions, flow charts, and records for all products as a minimum. The Contractors supplier quality assurance plan shall be submitted as part of the quality manual. (Reference E001 CDRL E001 SOWE 1.1, Quality Manual)

**Name of Offeror or Contractor:**

E.1.5 SUBCONTRACTORS QUALITY DOCUMENTATION. At a minimum, the Prime Contractor's documentation and acceptance of the sub-contractor quality assurance system and any quality procedures, work instructions, flow charts, records, shall be made available upon Government request. If determined to be acceptable, the Prime Contractor shall use the supplier's accepted system when conducting quality audits. The Government reserves the right to perform quality audits at the prime contractor and suppliers facilities.

E.1.6 ACCESS TO SUPPLIERS. The Government reserves the right to interface with and visit all suppliers and sub-suppliers of the prime contractor when a representative of the prime contractor is in attendance.

E.1.7 GOVERNMENT QUALITY AUDITS. The Government will monitor the contractor's performance using QA procedures established for the Contractor in the Quality Assurance Program Requirements section (E.1.1) of the contract. This may involve quality audits (process audits, manufacturing audits, product audits) as required. The Contractor shall provide provisions of required documentation, product, personnel, or other resources to conduct the audits to the Government during such audits. Government audits of sub-suppliers, if required, will be conducted with the prime Contractor.

E.1.8 MANUFACTURING PROCESS AUDITS. The Contractor shall support all Government Manufacturing Process Audits (MPA). MPAs will consist of review of Contractor manufacturing processes, including process layout, manufacturing documentation, material and information flow, tooling, and any other aspects of the process that may affect quality of the finished product.

E.1.9 QUALITY MANAGEMENT SYSTEM AUDITS. The Contractor shall support all Government Quality Management System Audits (QMSAs). QMSAs will consist of review of Contractor processes as contained in the Contractors QMS (Reference CDRL E001 SOWE 1.1, Quality Manual). Such audits may involve accompanying the Contractor to a sub-supplier location to conduct audit activities.

**E.2 FIRST ARTICLE TESTING REQUIREMENTS**

E.2.1 FIRST ARTICLE REQUIREMENTS. The first article requirements under this contract consist of successful completion of the following three items:

- a. Component First Article Tests (CFAT) (Contractor performed, reference Section E.2.1.1).
- b. First Production Vehicle Inspection (FPVI) (Contractor performed, reference Section E.2.1.3).
- c. Production Qualification Test (PQT) (Government performed, reference SOWC 4663).

E.2.1.1 FIRST ARTICLE APPROVAL. First Article Test (FAT) approval will be conducted in accordance with FAR 52.209-3 Alternate II or FAR 52.209-4 Alternate II and additional requirements defined in Section E.

E.2.1.2 COMPONENT FIRST ARTICLE TESTING (SEE ALSO SECTION ON PPAP). Shall be conducted in accordance with FAR 52.209-3, and the provisions specified herein. The Government reserves the right to be present at any test event. The Contractor shall notify the Government at minimum of 20 days prior to conducting a test. Failure to notify the Government within the time limit may, at the Government's discretion, be grounds to reject the test. Where a system is referenced, the Contractor is responsible for conducting the test at the component part level; for example, Steering System requires component level testing of the steering pump, steering gear, steering column, steering wheel, steering shaft, steering assist cylinder, and damper shock, as a minimum. The test shall include a dimensional inspection that validates the component meets the product drawing requirements. The approved CFAT procedures shall become the baseline test requirements of the Quality Assurance Provisions. During the Physical Configuration Audit, a complete review of Quality Assurance Provisions and associated requirements will be performed, if applicable. First Article Tests shall evaluate performance, durability, and environmental tests. Component First Article test shall be representative of items to be manufactured using the same process, facilities and procedures as will be used for contract production. The Contractor is responsible for all CFATs and notifying the Government of components requiring CFAT. Delays in schedule as a result of the Contractor's failure to identify the CFAT components requiring first article test will be the responsibility of the Contractor. The component First Article shall be inspected and tested to all requirements of the drawing(s), and specification(s) and successfully complete CFATs.

- (1) Engine
- (2) Transmission
- (3) Transfer Case
- (4) Alternators/Generators
- (5) Steering System
- (6) Vehicular Frame
- (7) Cargo Bed
- (8) Hydraulics
- (9) Air, Hydraulic Oil, and Fuel Tanks/Reservoirs
- (10) Fire Suppression System
- (11) Propeller Shaft
- (12) Powertrain Cooling System (Radiator, Charge Air Cooler, Transmission Cooler, etc)
- (13) HVAC System (Heater, Evaporator, Blower, Condenser, Compressor, etc)
- (14) Brake System

**Name of Offeror or Contractor:**

- (15) Pressure Release Valve(s)
- (16) Wheels
- (17) Electronic Control Modules
- (18) Electrical Wiring System
- (19) Control Stations/Instrument Panel/Gauges
- (20) Suspension System (Springs, Shocks, Axles, Wheel Ends, etc)
- (21) Tires
- (22) Starter
- (23) Air Cleaner
- (24) Cab
- (25) Winches
- (26) Transparent Armor
- (27) Opaque Armor

E.2.1.2.1 NUMBER OF COMPONENTS REQUIRED. The contractor shall perform CFAT testing on a minimum of two component units for the items specified in E.2.1.2. Modification must be requested through the change order process.

E.2.1.2.2 COMPONENT FIRST ARTICLE TEST PLAN. The Contractor shall prepare and submit the CFAT plan to Government for approval prior to the beginning of any CFAT. The Government will have the right to monitor all CFATs. The Contractor shall provide a list and time schedule of CFATs as part of this plan, including anticipated completion dates. (CDRL E004 SOWE 2.1.2.3, CFAT Plan)

E.2.1.2.3 CFAT REPORT. The Contractor shall submit all CFAT Report(s) within 60 days of CFAT completion. Reports shall be identified CFAT. The CFAT report(s) shall include part number drawings and Quality Assurance Provisions. The CFAT report shall be prepared IAW MIL-STD-831 and DID DI-NDTI-80809B. CFAT reports shall contain a matrix summary which tabulates each test/inspection performed, results of each test (pass/fail), corresponding page where data is located, Contractor position and any corrective action, if required, shall be included in the report. (CDRL E005 SOWE 2.1.2.4, CFAT Report)

E.2.1.2.3.1 CONDITIONAL ACCEPTANCE OF COMPONENTS PENDING CFAT COMPLETION. The Government, at its sole discretion, may conditionally accept vehicles at any time; at no time is the Government required to conditionally accept vehicles, prior to the completion of the CFAT requirements being completed. The Contractor can use components in the manufacture of JLTV vehicle production, pending successful completion of the CFAT for that component provided:

- a. The Contractor agrees to successfully complete all of the CFAT tests.
- b. The Contractor shall rectify all deficiencies/discrepancies in each component that are identified during the subsequent CFAT testing, regardless of the location of each component at no additional cost to the Government.
- c. In the event that there is a CFAT failure during the period of time that the Contractor is authorized to use components, then the Government reserves its right to:
  - (1) Not accept, or cease acceptance, whether conditional or final, of vehicles
  - (2) Require the Contractor to repeat all, or a portion of, the PQT at the Contractor's expense

E.2.1.2.4 DISAPPROVAL If a CFAT is disapproved, the Contractor shall repeat the CFAT. After such repeat testing, the Contractor shall make any necessary changes, modifications or repairs to the First Article or select another First Article for testing. All costs related to these tests shall be borne by the Contractor, including any and all costs for additional tests following disapproval. The Contractor shall then conduct the tests and deliver another report to the Government under the terms and conditions and within the time specified by the Government. (Reference CDRL E005 SOWE 2.1.2.4, CFAT Report)

E.2.1.2.5 CHANGES. If changes are made to the technical data, production processes, facilities, and/or type of material, a subsequent CFAT may be required. When any of the above conditions occur, the Contractor shall notify the PCO/ACO so that instruction for the submission, inspection and notification of results can be made. Costs of CFATs resulting from Contractor proposed technical data changes, production process change or material substitution shall be borne by the Contractor.

E.2.1.2.6 MANUFACTURE. The Component First Article offered for test(s) must be manufactured at the facilities in which that item(s) is to be produced. If the First Article is a component not manufactured by the Contractor, the component must be manufactured at the same facilities in which the component is to be produced for the contract. A certification by the Contractor to this effect must accompany each CFAT which is offered. In the event CFAT reveals deviations from contract requirements, the Contractor shall, at the location designated by the Government, make the required changes to the items, or replace all the items manufactured under this contract, at no change in contract price.

E.2.1.2.7 CFAT SAMPLES. The First Article sample shall be taken from within the first 10 units produced for this contract unless otherwise approved by the Government. In the event that the first 10 units of a lot are not available, the Government reserves the right to select the CFAT quantity from any lot.

E.2.1.2.8 SUBCOMPONENT FIRST ARTICLE CONDITIONS. Subcomponent First Article Test requirements may be met during the performance of the First Article Test of a higher assembly, only if the required characteristics can be tested. If any characteristic of the subcomponent is not or cannot be tested during the higher assembly testing, the subcomponent shall be tested separately.

**Name of Offeror or Contractor:**

E.2.1.2.9 COMPONENT FIRST ARTICLE CONDITIONS. The CFAT requirement is considered to be met if the Contractor certifies that (1) the supplier has component First Article Approval on the identical part delivered for use in a previous vehicle production contract with the Government (this information shall be present in the CFAT Plan (CDRL E004) and (2) the supplier has been a continuous supplier of the part (for purposes of this requirement, a continuous supplier is defined as one which has not had a break in production in excess of six months, and the design and manufacturing/assembly process or place of manufacture have not been changed). If military/federal specifications are applicable to the component and changes to these documents have been implemented which may impact form, fit, function or performance, a new Component First Article Test shall be required. Further, if degradation of performance of the component is evident, as determined by the Government, a new Component First Article Test will be required.

## E.2.1.3 FIRST PRODUCTION VEHICLE INSPECTION

E.2.1.3.1 FPVI NOTIFICATION. The Government shall be notified that the Contractor is ready to perform a FPVI. The Contractor shall send written notification to the Administrative Contracting Officer (ACO) and Contracting Officer Representative (COR) at least 14 calendar days prior to the start of the FPVI. The written notification shall include the location, date, and time of the FPVI.

## E.2.1.3.2 FIRST PRODUCTION VEHICLE INSPECTION.

The Government will select two vehicles of each JLTV configuration (one base vehicle and one with B-Kit installed) and one JLTV trailer at random to complete FPVI. During FPVI the vehicles will be audited against the JLTV Purchase Description (Attachment 0001) for performance specified therein. The Government reserves the right to defer testing to a Government test facility if the performance requirement cannot be demonstrated at the contractor facility. At the time of the FPVI the Contractor shall make available to the Government representative(s) all the reports of prior inspections, tests, vendor quality requirements, Qualified Product List (QPL) documentation, drawings, material and component certifications ( CDRL E006 SOWE 2.1.3.6, FPVI Report).

E.2.1.3.3 FPVI FAILURE. If the FPVI vehicle is disapproved by the Government, the Contractor may be required, at the discretion of the Government, to repeat any or all of the FPVI at no additional cost to the Government. After notification of the required additional inspections, the Contractor shall make any necessary changes, modifications, or repairs to the first production vehicle and any subsequent (and prior) vehicles at no additional cost to the Government. The Government has the discretion to select another production vehicle for FPVI in lieu of the original first production vehicle. Upon completion of additional FPVI inspections, the Contractor shall again submit the inspection report. The Contractor shall bear the responsibility of delays resulting from additional inspections. All discrepancies found during FPVI shall be corrected on all vehicles produced before and after the FPVI, to include the FPVI vehicles.

E.2.1.3.4 INSPECTIONS PRIOR TO FPVI. During fabrication of the first production vehicle(s) of each variant type, in-process inspections shall be conducted to determine conformance of materials and workmanship to specified requirements. These inspections shall be made at the contractor's or subcontractor's facilities, prior to the application of primer and paint. Processing and welding procedures, quality system, inspection records, calibration procedures, non-destructive test procedures, material certification, and welder certifications will be reviewed as a minimum and evaluated during the in-process inspection.

E.2.1.3.5 FPVI SELECTION The contractor shall inspect and road test each item selected at the place of manufacture. The first production vehicle shall be inspected and documented by the contractor and the actual values will be recording using the contractor format and shall include, as a minimum, the inspections located in the approved FIR. The Government reserves the right to witness and/or participate in the contractor's inspections and road tests.

E.2.1.3.6 FPVI REPORT. The Contractor shall prepare and deliver a FPVI report upon completion of FPVI which documents the inspection records, vehicle performance, and all material and component certifications.  
( CDRL E006 SOWE 2.1.3.6, FPVI Report)

E.2.1.3.7 FPVI APPROVAL. Final approval and acceptance by the Government, of the FPVI for a specific model, will be withheld until a final determination has been made regarding conformity of the vehicle to contractual requirements, including but not limited to workmanship and materials.

E.2.1.3.8 FPVI RE-INSPECTION. Any defect discovered during the FPVI process shall be repaired, inspected, and certified by the contractor prior to presenting the vehicle to the government for re-inspection and approval. As a minimum, the FPVI shall have blocks for the contractor's inspector's initials indicating that each characteristic or function was inspected and either accepted or rejected, and another block for re-inspection and acceptance of any rejected characteristic or function. Final review and acceptability shall be indicated by a signature block containing the full name and title of the company official rendering approval.

## E.3 QUALITY CONFORMANCE INSPECTION (QCI)

E.3.1 ONE HUNDRED PERCENT (100%) FINAL INSPECTION. Each vehicle produced shall be subjected to a complete final inspection by the contractor, as described in this paragraph and its subsections, utilizing a Government approved Final Inspection Record (FIR). Verification and inspection of torque, dimensions, routings of hoses and electrical harnesses, and characteristics that are masked by subsequent assembly operations shall be accomplished during in-process assembly and inspection operation. In-process defect prevention

**Name of Offeror or Contractor:**

techniques shall be implemented to the maximum extent possible to prevent the occurrence of defects during FIR activities. A complete copy of the in-process inspection records and FIR shall be submitted to the Government with each vehicle offered for acceptance. Each vehicle shall be inspected by the contractor for the characteristics/defects listed in E.3.1.4, E.3.1.5, and the FIR. If a characteristic is found defective the contractor is responsible to provide corrective action, and perform re-inspection prior to offering the vehicle to the Government for final acceptance. The contractor is also responsible for performing functional/operational checks on all systems identified in E.3.1.6. The requirements specified in this paragraph and the subparagraphs herein apply to all vehicles regardless of whether Final Inspection by Sampling (section E.3.2) has been implemented or not.

E.3.1.1 DYNAMOMETER TEST. The vehicle shall be operated on the roller type dynamometer fixture for a minimum 3 miles and checked for proper operation of the transmission. All transmission selections shall be demonstrated during the track test defined below. The vehicle shall be run from a stop through maximum governed speed. The vehicle shall be checked for reverse operation. Before, during, and after the dynamometer test, all vehicle equipped instrumentation shall be monitored for proper operations and readings. Upon completion, a printout from the dynamometer which displays the as-tested and recorded values from the test shall be provided with each vehicle upon presentation to the Government. The vehicle shall be stopped and engine idled for not less than 2 minutes after vehicle roller run. While idling, the vehicle shall be subjected to a walk-around inspection. Transmission, engine oil, radiator fluid, power steering fluid, and hydraulic brake fluid (if equipped) levels shall be checked and adjusted if necessary before track test.

E.3.1.2 TRACK AND ROUTE (T/R) TEST. Subsequent to examinations and corrections of deficiencies found during Dynamometer Test (section E.3.1.1), the vehicle shall be operated for a minimum of 12 miles on a relatively level, hard surfaced test T/R. The test T/R shall be capable of allowing the test vehicles to operate at a minimum of 55 mph. During the T/R test, the contractor shall verify that the vehicle successfully shifts through all forward transmission shift points. The T/R test shall also include speeds up to maximum governed speed. As an option, operation at maximum governed speed may be performed and demonstrated during the dynamometer test. The vehicle shall be operated to verify that the transmission transfer case operates properly. The vehicle shall also be driven in reverse for a distance of not less than 50 feet. At the completion of accumulated miles, the vehicle shall be stopped and the engine allowed to idle for not less than 5 minutes. At this time a contractor performed walk-around inspection shall be performed.

E.3.1.3 EXAMINATION OR TEST FAILURE. If any vehicle fails to pass any examinations or tests specified herein, the Government may withhold acceptance until the contractor provides evidence that corrective action has been made.

E.3.1.4 MAJOR DEFECTS. Any defects which could impact safety, or that will likely result in decreased vehicle performance, mission failure, reduced operational capability, or result in a loss of function to any major component or sub-system (i.e. engine, transmission, steering, hydraulics, brakes, heater, etc.), are considered major defects. For the purposes of inspection of major defects, the following definitions of leaks apply: Class I - Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops; Class II - Leakage of fluid great enough to form drops but not enough to cause drops to drip from item being inspected; Class III - Leakage of fluid great enough to form drops that fall from the item being inspected. Examples of major defects are as follows:

(a) Steering mechanism: malfunction, unusual noise, malfunction of pump, gear or other major component resulting in loss or degradation of steering function, or condition that could result in same (i.e. loose pitman arm), Class III leak. Assessed by visual/functional inspections.

(b) Engine: malfunction resulting in loss of power, stalling, failure to start, or Class III leak, loss of oil pressure, improper installation, loose or missing engine mounting hardware, unusual noise. Assessed by visual and functional inspections.

(c) Transmission: malfunction, unusual noise, improper shifting, Class III leak. Assessed by visual and functional inspections.

(d) Drivetrain: Transfer case assembly, propeller shafts, half shafts: malfunction, improper clearance, Class III fluid leaks, improper installation. Assessed by visual/functional inspections.

(e) Cooling system and component(s): (i.e. radiator, surge tank, water pump): malfunction, Class III fluid leaks, vehicle overheating. Assessed by visual/functional inspections.

(f) Vehicle Electrical Charging System and components: malfunction, voltage within +/- 10% of nominal. Assessed by visual/functional inspections.

(g) Service, parking brakes: malfunction, inability to hold vehicle on required slope, unusual noise, pulling to one-side greater than 24 inches, air leaks exceeding system pressure drop of 3 psi/min with engine stopped (if applicable), Class I, II, or III brake fluid leaks (if applicable). Assessed by visual/functional inspections.

(h) Tires: damage, improper assembly. Assessed by visual inspection.

(i) Fuel tanks and system: welding defects, leakage (Class I, II or III), cracked tank mounting brackets, cracked fuel/water separator, cleanliness (water in the fuel/water separator is acceptable). Assessed by visual/functional inspections.

(j) Exhaust system: damage, exhaust leaks that could result in unsafe condition, excessive noise, and improper installation. Assessed

**Name of Offeror or Contractor:**

by visual/functional inspections.

(k) Suspension system: malfunction, improper installation. Assessed by visual/functional inspections.

(l) Winch and wire rope: malfunction, improper size, damage. Assessed by visual/functional inspections.

(m) Instrumentation/gauges/switches: malfunction, location, functional damage. Assessed by visual/functional inspections.

(n) Weld defects: Defects in structural or ballistic welds. Assessed by visual/weld gauge inspections.

(o) HVAC system: malfunction of heater or A/C unit (if installed). Assessed by visual/functional inspections.

(p) Cab structures and B-Kit Armor fit-up. Assessed by visual/functional inspections.

(q) Missing parts.

(r) Seats and seat belts: malfunction, improper mounting/installation, damage. Assessed by visual/functional inspections.

(s) All other defects not specifically listed, but which fall into the major category, based on the definition of a major defect as described above. Assessed by visual/functional inspections.

E.3.1.5 MINOR DEFECTS. Any defects which may result in an inconvenience to the operator or crew, require maintenance or repair at the next convenient stop in operations, are cosmetic in nature but readily visible, exhibit obvious departures from normal and accepted manufacturing practices (example: chaffing, loose or missing hardware, easily visible paint defects on class A surfaces, etc.), but which would not likely result in an immediate concern for safety, mission failure, diminished vehicle capability or operational readiness or require immediate maintenance for continued vehicle operation, should be considered minor defects. For the purposes of inspection of minor defects, the following definitions of leaks apply: Class I - Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops; Class II - Leakage of fluid great enough to form drops but not enough to cause drops to drip from item being inspected; Class III - Leakage of fluid great enough to form drops that fall from the item being inspected. Examples of minor defects are as follows:

(a) Fluids: low or improper fill. Assessed by visual inspections.

(b) Lubricants: Component damage from improper lubrication or no lubrication present. Assessed by visual inspection.

(c) Controls/handles/knobs: malfunction, adjustments, loose, missing, or damaged. Assessed by visual/functional inspections.

(d) Steering system: components not falling within the major category: hoses misrouted, loose hardware, class II leaks, chaffing. Assessed by visual/functional inspections.

(e) Central Tire Inflation System (CTIS): malfunction, improper installation, leaks. Assessed by visual/functional inspections.

(f) Pulleys and fans: misalignment, improper clearance. Assessed by visual inspections.

(g) Engine components and subsystems that fall within the minor defect category: loose hardware, cables/wires, improperly adjusted, class II leaks, misalignment, improper clearance. Assessed by visual/functional inspections.

(h) Transmission and related components: brackets, hoses, lines that need adjusting, class II leaks, dipstick or sampling valve issues, loose bolts. Assessed by visual/functional inspections.

(i) Coolant system components not falling into the major defect category: improper coolant mixture, hoses, lines need adjusting, chaffing. Assessed by visual inspections.

(j) Lubrication System Components (engine): Damage, Class 2 fluid leaks, cleanliness. Assessed by visual/functional inspections.

(k) Drive train: Issues falling within the minor defect category, inoperative grease fittings, class II differential leaks, vent hoses misrouted/kinked. Assessed by visual inspections.

(l) Body, doors, access covers, tie-downs, lifting points: improper fit, defective welds, inadequate sealing. Assessed by visual/functional inspections.

(m) Paint application defects: improper color, improperly applied camouflage pattern, coverage, cosmetic defects, stage 1 corrosion. Assessed by visual/functional inspections.

(n) Lube fittings: defective, missing, improperly installed. Assessed by visual/functional inspections.

**Name of Offeror or Contractor:**

(o) Bolts/nuts/washers/keepers/or other non-critical miscellaneous hardware: defective, loose, missing or damaged. Assessed by visual/functional (i.e. torque wrench) inspections.

(p) Cushions/Seats and Belts: improper fit, tears, or rot, seat belt adjustment and locking. Assessed by visual/functional inspections.

(q) Decals, marking, data and instruction plates: incomplete data, missing, improper location or size. Assessed by visual/functional inspections.

(r) Batteries/Battery Cover/Battery Tray: malfunction, cracks, improper installation, operation. Assessed by visual/functional inspections.

(s) Radio Brackets/Connectors: improper installation. Assessed by visual/functional inspections.

(t) Lights: improper installation, cracked lenses, malfunction. Assessed by visual/functional inspections.

(u) Air compressor/pneumatics: improper installation, malfunction, low pressure, and leaks. Assessed by visual/functional inspections.

(v) Windows: cracked glass, improper installation, leaks. Assessed by visual/functional inspections.

(w) Vehicle Lifting and Tie-down devices: improper fit, loose hardware. Assessed by visual inspections.

(x) Parking Brake: minor air leaks (if applicable) not effecting vehicle braking and can be corrected with minimal effort (i.e. tightening a fitting), hose routing, chaffing. Assessed by visual/functional inspections.

(y) Windshield Wiper System: Inoperative, wiper arms, wiper blades, wiper arm parking location (to be within 5 degrees of normal parking location). Assessed by visual/functional inspections.

(z) ABS system, minor: ABS indicator light illuminated, malfunction correctable by adjusting or resetting wheel sensor, connector, or clearing history codes. Assessed by visual/functional inspections.

(aa) Wire or tubing: defective, improper assembly or installation, improper protection, kinks, improper identification. Assessed by visual inspections.

(bb) Weld Defects (Minor): Defects on non-structural or ballistic welds. Assessed by visual/weld gauge inspections

(cc) All other components/characteristics not listed in the minor defects section of this table, but which fall into the minor defect category based on the definition of a minor defect as described above. Assessed by visual/functional inspections.

(dd) Workmanship Defects: All workmanship deficiencies that have no effect on function, safety, interchangeability, life, vehicle performance or jeopardize mission capability but considered departures from good workmanship. Examples of such deficiencies may include, but are not limited to, foot and or finger prints, trash or debris left over from the manufacturing process, cable wraps not trimmed, rivet stubs and or washers not removed from under the floor mats, etc. Assessed by visual inspections.

E.3.1.6 Functional and Operational Checks. As applicable, the functional and operational tests referenced below shall be conducted on all vehicles as a part of QCI. All tests shall be clearly identified in the FIR (reference CDRL E0012SOWE, Final Inspection Record 11).

In addition, any Critical Safety Item that requires a functional check prior to delivery to ensure proper operation shall also be tested as a part of QCI.

(a) Service Brake Test. Service brakes shall be tested for proper function and operation. The ABS system shall also be checked to ensure proper functionality, and that the vehicle is free from excessive pulling to the left or right of more than 24" during panic braking. Tests shall be conducted on a dry, hard, approximately level, road surface that is free from loose material. Testing shall be conducted without the aid of engine or transmission retarders, if applicable.

(b) Parking Brake Test. The parking brake system shall be tested for its ability to hold the vehicle stationary. This may be accomplished by demonstration utilizing the required grade or another method submitted to the Government for review and approval as a part of the FIR.

(c) Glad Hands Test. The glad hands shall be checked for presence, location, function, and marking and shall not leak.

(d) Engine Air Induction System Check. All hoses and filters shall be checked for proper position and contamination. System intakes shall be checked for proper installation to prevent entrance of foreign matter during normal vehicle operation, including fording.

(e) Exhaust System Certification/Check. The vehicle shall be checked for proper installation of exhaust system components to preclude

**Name of Offeror or Contractor:**

exhaust leaks and heat damage.

(f) Transmission Check. The automatic transmission shall be checked for proper installation and smooth operation/shifting in all gears including reverse. The transmission shall be checked for proper installation, oil leaks, and excessive heat during vehicle operation.

(g) Transfer Case Check. The transfer case shall be checked for proper operation/shifting in all gears including reverse. In addition, the transfer case shall be checked for proper installation, oil leaks, and excessive heat during vehicle operation.

(h) Transparent Armor Leak Check. The transparent seals shall not allow water leakage in excess of Class 1 leak allowance when exposed to an evenly distributed spray of water from a supply source IAW MIL-STD-810G, Method 506.5, para 4.4.3 Procedure II for not less than 3 minutes each. If any of the seals fail to meet this requirement, the contractor and his supplier shall be responsible for providing corrective action to correct the fault of the deficiency. An alternative method may be used by the contractor with Government approval.

(i) Windshield Wiper and Washers Test. The windshield, windshield washer and wipers shall be checked for proper location, installation, assembly and operation of washer and wipers.

(j) HVAC Test. The HVAC system shall be tested for motor operation, flow of hot/cold air, proper installation, condition and location of hoses.

(k) Controls and Operating Mechanisms Check. The vehicle control system and illumination shall be checked for compliance with the specified standards and proper operation of the intended/designed system.

(l) Lighting System Test. The vehicle lighting system shall be checked for proper operation and installation of the lights and equipment specified.

(m) Instrument Check. All vehicle instruments and gauges shall be checked for proper function, operation, and compliance with the requirements specified.

(n) Vehicle Winch. If equipped, the winch shall be checked for proper assembly, installation, length of cable, cable type, and shall be tested by a functional check to ensure the winch and electrical systems are operating as designed. The contractor shall assure that the winch cable is properly wound, free of corrosion, bird nesting, twist, kinks and other defects caused by an improperly spooled cable.

(o) Horn Check. The vehicle horn shall be checked for proper operation and mounting.

(p) Cab Water Resistance Test. For water resistance control testing, the cab window, windshield and door seals shall each be exposed to an evenly distributed spray of water from a supply source IAW MIL-STD-810G, Method 506.5, para 4.4.3 Procedure II (Watertightness) for not less than 3 minutes each. The contractor may utilize an equivalent alternate method for the water resistance control test with Government approval. Each seal shall not allow any water leakage past the seal in excess of Class 1 leak allowance.

E.3.1.7 WELDING INSPECTION. All welds shall be visually inspected IAW the following weld codes: AWS D1.1/D1.1M Structural Welding Code, Steel; AWS D1.2/D1.2M Structural Welding Code, Aluminum; AWS D1.3/D1.3M Structural Welding Code, Sheet Steel. For Ballistic applications: TACOM, Ground Combat Vehicle Welding Code, Steel; TACOM Ground Combat Vehicle Welding Code, Aluminum. Alternate Weld Standards may be utilized by the Contractor if submitted to and approved by the Government. For the purpose of this contract, weld quality and workmanship shall be verified by qualified inspectors trained to perform the specific functions they are assigned. Acceptable training may be based on a) current or previous certification as an AWS Certified Welding Inspector, b) current or previous verification by the Canadian Welding Bureau (CWB) or c) an Engineer or technician by formal training or experience, or both, in metals fabrication, inspection and testing, who is competent in the use of weld inspection techniques and equipment. Welds will be checked, at a minimum, prior to and at the completion of testing. Welds not easily viewable in the completed product may be inspected prior to or during the assembly process.

E.3.2 FINAL INSPECTION OF PRODUCTION VEHICLES BY SAMPLING. The contractor shall not final inspect vehicles on a sampling basis in lieu of final inspection of each end item as described in E.3.1 unless written authorization is received from the PCO.

E.3.2.1 UNCLASSIFIED (WORKMANSHIP) DEFECTS. All workmanship deficiencies that have no effect on function, safety, interchangeability, life, vehicle performance or jeopardize mission capability but considered departures from good workmanship, will be documented in writing but will not be used in determining lot acceptance, unless similar deficiencies occur on five consecutive lots. Examples of such deficiencies may include, but are not limited to, foot and or finger prints, trash or debris left over from the manufacturing process, cable wraps not trimmed, rivet stubs and or washers not removed from under the floor mats, etc. All workmanship deficiencies shall be corrected by the contractor prior to shipment.

E.3.2.1.1 RECURRING UNCLASSIFIED (WORKMANSHIP) DEFECTS. Workmanship defects (section E.3.2.1) falling within these types of categories, and recurring in five consecutive lots, will be documented in the FIR as a minor defect and remain there until the contractor passes five consecutive lots without recurrence of such deficiencies.

E.3.2.2 MAJOR DEFECT. The definitions of a major defect found in section E.3.1.4 also applies to inspection by sampling.

**Name of Offeror or Contractor:**

E.3.2.2.1 RECURRING MAJOR DEFECTS. A major defect (section E.3.1.4) is recurring when the same defect occurs more than once in the same sample, or when a similar defect occurs in two successive samples. A major defect may be considered recurring when the historical inspection records ("P" chart or Government approved equivalent) reflect such a condition. Recurring major defects shall be cause for the entire lot, or lots, to be inspected for the recurring defects. All defects shall be corrected by the contractor at no additional cost to the Government prior to acceptance by the Government.

E.3.2.3 MINOR DEFECT. The definitions of a minor defect found in section E.3.1.5 also applies to inspection by sampling.

E.3.2.3.1 RECURRING MINOR DEFECTS. A minor defect (section E.3.1.5) is recurring if the same defect occurs in four successive samples. Recurring minor defects shall be cause for the entire lot or lots to be inspected for the recurring defects, and correction shall be accomplished prior to acceptance by the Government.

E.3.2.4 SAMPLING INSPECTION FAILURES. If any vehicle fails to pass any inspection as a result of conditions specified in E.3.1.4/E.3.2.2, E.3.1.5/E.3.2.3 or the required tests as specified in E.3.1.6, the Government reserves the right to withhold acceptance of all vehicles in the lot until the contractor provides evidence that corrective action has been taken to correct all documented defects and the conditions that caused those defects. On the failure of a lot to pass sampling inspection, the contractor shall revert to 100% inspection, as defined in E.3.1, until evidence the Government deems satisfactory has been provided by the contractor.

E.3.3 QUALITY CONFORMANCE INSPECTION FOR KITS. The Contractor is responsible for performing complete inspections on 100% of all kits (including count, condition, and configuration) using the approved FIR. The government, at its option, may elect to witness and/or participate in the Contractors final inspection. The Government may also elect to have the applicable kit installed on its appropriate end item. The general definitions of major and minor defects found in Sections E.3.1.4 and E.3.1.5 also apply to kits where applicable.

E.4 CONTROL TEST. Control tests for maintaining control of manufacturing operations shall be conducted by the manufacturer as specified below.

E.4.1 FREQUENCY. The Government shall select one vehicle at random for control test every two weeks of vehicle production. The Government reserves the right to change the frequency of the control test based on program risk.

E.4.2 50 MILE TEST. The test vehicles shall be fully equipped with either actual or simulated payload and operated for a distance of not less than 50 miles on the relative level, hard-surfaced test track/route. Prior to conducting the control tests, the test vehicle shall be subjected to the Quality Conformance Inspection as depicted in E.3.1. The control test shall be performed at the place of manufacture. Prior to conducting the 50-mile control test, each control test vehicle shall be inspected to ascertain conformance to the requirements as referenced in Section E.3.1.

E.4.3 PERFORMANCE TESTS. Performance tests shall be performed in the presence of a Government representative. The control test shall validate the actual performance requirements listed in the purchase description for the following tests:  
(a) Grade climbing and holding (braking) capability. (b) Side slope capability. (c) Maximum speed capability. (d) CTIS performance (e.g. tire pressures, time to change modes) (e) Winch performance measurement (if equipped) (f) GFE functionality (if applicable) (g) Suspension functionality (e.g. function, capability to achieve proper height, time to achieve height settings)  
Tests shall be conducted at GVW unless otherwise specified by the Government.

E.4.4 CONTROL TEST FAILURE. If the vehicle selected fails to pass any of the control test requirements stated within this section, the Government reserves the right to stop acceptance inspection and testing on subsequent vehicles until such time the condition(s) causing the failure has been investigated for cause and has been corrected. Any major defects found during, or as a result of the control test, shall be prima facie evidence that vehicles accepted subsequent to the previously acceptable control tests were similarly defective, until the Government is furnished evidence by the contractor that they are not similarly deficient. Minor defects found during or as a result of the control test shall not result in immediate stoppage of acceptance unless four or more minor defects are documented on one control test vehicle. Such defects on all vehicles shall be corrected by the contractor at no cost to the Government. Another vehicle with corrective actions implemented may be subject to the control test to verify effectiveness of corrective actions.

E.5 TEST FAILURES.

E.5.1 FAILURE DEFINITION. A failure is defined as the condition of not achieving the desired end/requirement, i.e. an event, or state, in which a system or a component does not perform as specified in the JLTV Purchase Description (Attachment 0001).

E.5.2 DEFICIENCY DEFINITION. A deficiency is defined as a condition that lacks an essential quality or element and may be used synonymously as a failure.

E.5.3 RETEST. In the event of a vehicle/component test failure, the Government reserves the right to retest the vehicle/component upon correction of the failure by the Contractor to the complete extent and duration specified in the test program, or to the extent as the PCO shall consider appropriate. The Contractor shall be responsible for delays in the program test period resulting from vehicle/component failures and for failing to adequately or timely furnish parts support. The Government reserves the right to extend the specified program test period accordingly at no increase in contract price.

**Name of Offeror or Contractor:**

E.5.4 CORRECTION OF TEST FAILURES. The Contractor, when directed by the Government, shall correct on-site any failure of the system, which occurs during testing. Delays caused by defective test items shall not be a basis for adjustment of the contract delivery schedule or the contract price.

E.5.5 FAT DEFICIENCIES. Deficiencies found during or as a result of First Article Testing, shall be prima-facie evidence that all vehicles/components already produced prior to completion of First Article are similarly deficient. Such deficiencies on all vehicles/components shall be corrected by the Contractor at no additional cost to the Government

E.6 CERTIFICATION REQUIREMENTS.

The Contractor shall provide copies of Certifications for all specified Certifications requirements IAW section 4 of the Purchase Description (Attachment 0001). (CDRL E007 SOWE 6, Certification Requirements).

The Contractor shall provide a separate data submission to support Government Analysis for each specified Analysis requirement IAW section 4 of the Purchased Description (Attachment 0001). ( CDRL E008 SOWE 6, Analysis Requirements).

E.6.1 MATERIAL CERTIFICATION. When a material certification is required during routine audits, it shall include a copy of the material analysis and a statement of certification. All material purchased shall include a copy of the purchase order for review.

E.6.2 TEST CERTIFICATION. When a test certification is required during routine audits, it shall include the following information as substantiation:

- a. Drawing number.
- b. Specification title, number and edition.
- c. Grade or type for which the product was tested.
- d. Number of specimens tested.
- e. Requirements and actual results obtained.
- f. Purchase orders for subcontracted products.
- g. Statement of Certification

Subcontracting does not relieve the contractor of providing the above information as part of the certification.

E.6.3 COMPLIANCE CERTIFICATION. When a compliance certification is required during routine audits, it shall be provided, to the specific contract requirements, with a statement indicating that the contractor complies.

E.6.4 RECERTIFICATION. The contractor shall provide a new certification whenever a change is made:

- a. In the process used to produce a certified product.
- b. In the legal requirement for a standard of a certified product.
- c. In the supplier of a certified product.
- d. In the event of a new contract/rebuy.

E.7 CHANGES IN SUPPLIERS. If the contractor elects to change sources of supply after approval of the First Production Vehicle Inspection (FPVI), the Government shall be notified. In the event of a deficiency detected on the new suppliers product based on poor workmanship or a non-conformance, the Government reserves the right to require the contractor to conduct additional tests/examinations as it deems necessary. All costs associated with additional tests/examinations shall be the contractor's responsibility. Any production or delivery delays caused by retesting will not be considered an "excusable delay" under the FAR 52.249-14. Further, such delays shall not form the basis for an upward adjustment in contract price or an extension to the delivery schedules.

E.8 COMMERCIAL TEST RESULTS. Substituting Commercial Test Results for Required Contract Tests is permissible with PCO approval.

E.9 WELDING REQUIREMENTS.

E.9.1 WELDING. All Welding documentation shall be available to the Government and discussed at IPT meetings as well as major reviews IAW the IMP (reference Attachment 0002, IMP) .

E.9.2 WELDING PROCEDURES. The Contractor shall develop and deliver Weld Repair Procedures and Welding Procedure Specifications (WPS), and Procedure Qualification Records (PQRs in accordance with welding standard(s) as specified in Attachment 0059, Welding Standards. The Contractor and sub-contractors shall follow the appropriate welding standard(s) scope to qualify the welding and weld repair procedures. The Contractor and sub contractors shall prepare weld samples and test the weld procedure for qualification in accordance with the appropriate standard(s). Changes to the Weld Repair Procedures and WPS, or PQR that requires requalification, shall be resubmitted as part of the CDRL. The use of pre-qualified weld joints as specified in American Welding Society (AWS) D1.1 does not preclude submittal of welding procedures (E009 CDRL E009 SOWE 9.2, WPS) (CDRL E010SOWE 9.2, PQR)

E.9.2.1 ARMOR WELDING DESIGN. Prior to manufacturing, the Contractor shall develop welding procedures for all ballistic weldments in

**Name of Offeror or Contractor:**

accordance with the Ground Combat Vehicle Welding Code for Steel and the Ground Combat Vehicle Welding Code for Aluminum as applicable. All base materials used for ballistic weldments shall be qualified under the applicable MIL-DTL to be qualified as armor.

E.9.2.2 STRUCTURAL WELDING DESIGN. Non-armor and structural welding design shall be performed by the Contractor and will ensure that all metallic weldments meet the welding design and fabrication requirements in the prescribed standards listed herein or a PCO approved equivalent. The use of pre-qualified weld joints as specified in AWS D1.1 does not preclude submittal of welding procedures.

E.9.3 PREVIOUSLY QUALIFIED PROCEDURES. Welding procedures that have been previously qualified under another DoD contract for a Contractor or sub-contractor to meet the requirements of other standards, specifications, codes or earlier versions of the standard(s) listed in Attachment 0059, Welding Standards may be used by the Contractor or sub-contractor to support a Weld Procedure Specification (WPS) under this contract. The Contractor shall submit a written request to the Contracting Officer for approval prior to prototyping or build. All essential variables specified in the applicable welding standard(s) shall be included on the Procedure Qualification Record(s) (PQRs). The following requirements shall be met and documentation shall be provided:

- a. The weld procedure was qualified by destructive testing and approved on a previous DOD contract and the essential variables are within the tolerance as specified in the applicable welding standard(s) for the current contract.
- b. The Contractor has certified welders and equipment to the qualified procedures in accordance with the applicable welding standard(s) in this SOW.
- c. There was no break in production for more than six months at the facility where the procedures were used.
- d. A favorable quality history with regards to weld quality on the previous contract where the procedures were used. (CDRL E009 SOWE 9.2, WPS), (CDRL E010 SOWE 9.2, PQR),

E.9.4 WELD REPAIR PROCEDURES. When a repair is required the Contractor shall provide written repair procedure(s) identifying proper technique and approach to correct defective product. The Welding procedures for the repairs shall be in accordance with the applicable welding standard(s) in ATTACHMENT 0059 WELDING STANDARDS. A repair is defined as the act of restoring the functional capability of a defective article in a manner that precludes compliance of the article with applicable drawings or specifications. Repairs are generally changes to an unacceptable end product to make it acceptable in accordance with original functional requirements. (CDRL E009 SOWE 9.2 WPS)

E.9.5 WELD EQUIPMENT. The contractor shall develop and maintain a welding equipment calibration program. This program shall consist of, as a minimum, an annual comparison check of the machine output with instrumentation that has been certified and calibrated using standards traceable to the National Institute of Standards and Technology (NIST).

E.9.6 WELDING INSPECTORS. Weld Inspector Qualification. Qualified inspectors trained to perform inspection functions shall be used for the verification of weld quality, and shall be in accordance with at least one of the following conditions:

- a) Current certification in accordance with the American Welding Society (AWS), Certified Welding Inspector (CWI) or Senior Certified Welding Inspector (SCWI), qualified and certified in accordance with provisions of AWS QC1.
- b) Current certified welding inspectors qualified by the Canadian Welding Bureau (CWB) to Level II or the Level III requirements of the Canadian Standards Association (CSA) Standard W 178.2 Certification of Welding Inspectors.

**E.9.8 NONDESTRUCTIVE TESTING**

E.9.8.1 VISUAL INSPECTION. Visual inspections shall be IAW the applicable weld standards. Armor steel(s) and quenched and tempered steel(s) shall be visually inspected after the welds have been completed and cooled to ambient temperature and also after no less than a 48 hour hold period.

E.9.8.2 NONDESTRUCTIVE CRITICAL WELD JOINT. The Contractor shall clearly identify all critical joints required for Non-Destructive Testing (NDT) other than visual inspection).

E.9.8.3 NONDESTRUCTIVE INSPECTORS. When NDT is required, the inspectors shall be qualified IAW the current addition of American Society for Nondestructive Testing Recommended Practice No. SNT-TC-1A. Only individuals qualified for NDT LEVEL I and working under the NDT LEVEL II or individuals qualified for NDT LEVEL II may perform nondestructive testing except visual examination. The NDT personnel need not be an AWS CWI. The Contractor shall make available all NDT personnel qualification records upon request by the Government.

E.9.8.4 NONDESTRUCTIVE TESTING ACCEPTANCE CRITERIA FOR ARMOR MATERIAL(S). When NDT is required for armor the procedures and acceptance criteria shall be IAW TACOM Ground Combat Vehicle Welding Code for Steel (drawing number 19207-12479550), and the Ground Combat Vehicle Welding Code for Aluminum (drawing number 19207-12472301). Steel Armor materials MIL-DTL-46100, MIL-DTL-12560, or low alloy steels that are 1/8 inch (3mm) or thicker with a minimum specified yield strength greater than 100ksi (600MPa) shall be held for a minimum of 48 hours and inspected after welding is completed and has cooled to an ambient temperature.

**Name of Offeror or Contractor:**

E.9.8.5 NONDESTRUCTIVE TESTING ACCEPTANCE CRITERIA FOR NON ARMOR AND STRUCTURAL MATERIAL(S). When NDT is required for non-armor and structural material(s) the acceptance criteria shall be as stated in the applicable standard. The acceptance criteria differ based on the design loads. The Contractor shall state what joints are critical load bearing members and clearly identify these weldments for inspection purposes). In the case of critical structures, the acceptance criteria for cyclic loads will be as stated in AWS D1.1 and Class II structures for Aluminum welds IAW AWS D1.2. (CDRL E011 SOWE 9.8.5, Nondestructive Testing Acceptance Criteria for Non Armor and Structural Materials)

## E.10 VEHICLE ACCEPTANCE.

E.10.1 CONDITIONAL ACCEPTANCE. The Government, at its sole discretion, may conditionally accept vehicles at any time; at no time is the Government required to conditionally accept vehicles. Incomplete vehicles due to factors attributable to the contractor or their suppliers are not eligible for conditional acceptance.

E.10.2 CONDITIONAL ACCEPTANCE PRIOR TO FIRST ARTICLE APPROVAL. Conditional Acceptance without withholding is permitted if the basis is Government caused. If the Contractor delivers conforming vehicles to the Government IAW the contract delivery schedule prior to FAT approval, the Government may elect to conditionally accept the vehicles and withhold ten percent of the vehicle unit price until the provisions of E.10.3 are met. Prior to successful completion of the First Article Test requirements, any acceptance of vehicles shall be conditional.

Conditional acceptance of non-conforming vehicles will not be granted unless reasons of economy or urgency by the Government as defined in the Federal Acquisition Regulation. JPO JLTV shall provide written documentation of the reason(s) to the Procuring Contracting Officer. An amount to be withheld for conditionally accepted non-conforming vehicles will be determined by the Contracting Officer on a case-by-case basis. At the time of conditional acceptance, the Contractor may invoice up to the base vehicle unit price less the amount determined to be withheld.

E.10.3 FINAL ACCEPTANCE. Final acceptance of vehicles shall not occur until: (1) all First Article Approval requirements for each configuration have been successfully completed and the Contractor is so notified by a PCO letter and (2) all testing deficiencies are corrected to the satisfaction of the Government and (3) non-conforming items have been corrected.

E.10.3.1 INSPECTION. The Contractor shall perform one hundred percent (100%) Final Inspection of the end item in accordance with the Government approved Final Inspection Record (FIR). The Contractor shall make available the FIR for the items in question. Deficiencies disclosed during inspection by the Contractor or the Government shall be described in writing on the Deficiency Sheet and documented in the Final Inspection Record (FIR) (CDRL E012 SOWE 11, FIR)

E.10.3.2 FLUID FILL LEVELS. The Contractor shall assure the vehicles are shipped with a minimum of 1/2 tank of JP8 or DF-2 fuel (No off road diesel fuel will be allowed; Off road diesel is Red in color). The Contractor shall also assure that the windshield washer reservoir(s) is/are filled with a commercially available windshield washer fluid with freezing preventative additive, prior to presenting the vehicle to the Government. All other vehicle fluid levels shall be delivered full unless otherwise specified by the contract or attachments.

E.11 FINAL INSPECTION RECORD . The contractor shall submit the completed and certified copy of the Final Inspection Record (FIR) to the Government Inspector with each item inspected and offered for acceptance by the Government. The Contractor shall develop a tailored FIR for each configuration and trailer . Deficiencies disclosed during inspection by the contractor shall be described in writing and included as part of the FIR. (CDRL E012 SOWE 11, FIR)

E.11.1 INSPECTION TRACEABILITY. All Contractor manufacturing and inspection documents used to validate work completed and certify product quality compliance will have a Contractor controlled stamp to indicate acceptance.

(A) The FIR shall contain all examinations and tests that are performed on a single unit during its manufacture and final inspection. The FIR shall list each vehicle characteristic or function to be inspected. As a minimum, the FIR shall have blocks for the contractor's inspector's initials indicating that each characteristic or function was inspected and either accepted or rejected, and another block for re-inspection and acceptance of any rejected characteristic or function. Final review and acceptability shall be indicated by a signature block containing the full name and title of the company official rendering approval. The FIR shall be updated to reflect all engineering and/or manufacturing changes that impact the FIR, during the entire contract period. The contractor shall submit the completed and certified copy of the FIR to the Government Inspector with each item inspected when offered for acceptance by the Government (to include engineering work directives).

(B) Deficiencies disclosed during inspection by the contractor shall be described in writing and included as part of the FIR and corrected before final acceptance.

E.11.2 FINAL INSPECTION. The Contractor is responsible for performing all inspections on all JLTV FoV configurations as specified in the control plan. B Kits shall be subjected to a complete final inspection by the contractor utilizing a dedicated contractor developed and Government approved Final Inspection Record (FIR). The Contractor shall perform one hundred percent (100%) Final Inspection of the end item in accordance with the requirements of the applicable purchase description and the current approved configuration utilizing the Government approved FIR. The Government, at its option, may elect to witness and or participate in the contractors final inspection.

**Name of Offeror or Contractor:**

Deficiencies disclosed during inspection by the Contractor or the Government shall be described in writing on the Deficiency Sheet attached to the FIR. The Contractor shall ensure that each vehicle is over packed with the current -10 operator manual for that configuration and trailer.

E.11.3 CONFORMANCE INSPECTION FOR KITS. Conformance inspection for acceptance of Kits shall be conducted as follows:

- a. Audit of production sequence
- b. Verification Kits are manufactured IAW drawing requirements
- c. Verification of Kit marking requirements.

E.11.4 VEHICLE INSPECTION STANDARDS. In addition to the FIR, standards shall be developed by the Contractor to clarify attribute type characteristics that require definitive accept/reject criteria, such as cosmetic and workmanship standards with photographs. The inspection standards shall be maintained and updated as required by the continuous improvement team. To supplement inspections, the Contractor shall also develop visual aids including photos, drawings, diagrams, and hardware displays depicting acceptable and unacceptable conditions and have them available as acceptance criteria for workers, inspectors and DCMA.

E.11.5 FINAL INSPECTION RECORD PREPARATION. The Contractor shall prepare a FIR in its own format for each vehicle variant under the contract. The FIR shall be organized so as to be compatible with assemblies, installation, and end item performance and acceptance. Once the FIR is prepared it shall be submitted to DCMA first for comments before being submitting to JPO-JLTV for approval. The FIR shall contain all examinations and tests that are performed on a single unit during its manufacture and final inspection. The FIR shall list each vehicle characteristic or function to be inspected from the vehicle specification (CDRL E012 SOWE 11, FIR).

E.11.6 FINAL INSPECTION RECORD UPDATES. The FIR shall be updated quarterly to support standard production vehicles and configuration and to reflect all engineering and/or manufacturing changes that impact the FIR during the entire contract period.

E.12 PRODUCT QUALITY DEFICIENCY REPORT . The Contractor shall investigate, provide failure analysis and corrective action to all Product Quality deficiency Reports (PQDRs) (Standard Form 368) generated against supplies produced under this contract. The Contractor shall provide a report of the investigation, which includes at a minimum: problem identification, root cause, immediate/short term action, corrective action implementation plan for permanent solution, and verification of effectiveness. The PQDR report shall be presented in the contractors or suppliers own problem solving format (i.e. 8D format). The PQDR report of investigation shall be submitted within 20 calendar days of receipt of a Category I PQDR and within 30 calendar days of receipt of a Category II PQDR. If the investigative report is not a Final report, an Interim report shall be submitted within every 20 days for Category I PQDR or every 30 days for category II PQDR, until investigation concluded with a Final report. Should an exhibit of the item in question be required, the Contractor shall submit an exhibit request electronically to the JLTV PQDR Action Officer. Upon receipt of the request, the PQDR Action Officer will electronically delegate exhibit processing to the appropriate Administrative Contracting Officer (ACO) representative within 48 hours of request receipt. The ACO representative will arrange for transportation of exhibit(s) with the Contractor. The cost of exhibit transportation shall be the responsibility of the Contractor. Once an exhibit has been requested by the Contractor, the "clock" on the PQDR report submittal requirements shall be paused to allow for time lost due to PQDR exhibit processing and shipment from the user. The "clock" will resume once the Contractor has received the exhibit. All corrective actions taken by the Contractor shall be at no additional cost to the Government. PQDR corrective actions which require a configuration change must be approved by the Government PCO. All PQDR investigation reports and associated corrective actions shall be approved by the PQDR Action Officer before the Government considers a PQDR closed. PQDRs will not be closed in PDREP until the corrective action(s) submitted by the Contractor or his suppliers are officially approved by JPO JLTV. (CDRL E013 SOWE 12, PQDR)

E.12.1 PQDR CORRECTIVE ACTIONS. The Contractor shall provide, if necessary, supporting documentation such as internal assessments, data from suppliers analyses (i.e. FEA, FMEA, etc), test data, certifications, drawings, digital photographs to resolve the problem and prevent it from reoccurring. The contractor will document any PQDR as a customer complaint against their Quality Management Systems.

E.12.2 PQDRS FOR GOVERNMENT FURNISHED EQUIPMENT. The contractor shall support the PQDR investigation of Government Furnished Equipment (GFE) or Government Furnished Material (GFM) if a deficiency is found. The Standard Form 368, Product Quality Deficiency Report, must be used to report the receipt of deficient GFE or GFM. The GFE or GFM PQDRs will be processed through DCMA for tracking and management of document control numbers.

E.12.3 COUNTERFEIT PARTS. The Contractor shall establish, implement and maintain documented procedures which shall identify and preclude the use of counterfeit parts in production and shall impose same requirements on subcontractors. The Contractor shall make this information available to the Government upon request.

E.13 STORAGE AND MAINTENANCE OF VEHICLES.

E.13.1 CARE AND STORAGE OF CONDITIONALLY ACCEPTED LRIP VEHICLES. The care and storage for conditionally accepted LRIP vehicles starts immediately upon conditional acceptance of vehicles and continues until the Government provides shipping instructions.

E.13.2 CARE AND STORAGE MAINTENANCE PLAN. To assure that vehicles remain in an acceptable condition the contractor shall develop and deliver a storage, exercise, and maintenance plan that is acceptable to the Government. As a minimum, the storage plan shall include a documented work instruction, a flowchart of the process, an inspection schedule (presented to JPO JLTV monthly), vehicle specific

**Name of Offeror or Contractor:**

exercise schedule, maintenance schedule, as well as a description of inspections with signature block per vehicle inspection for all vehicles in the care of the contractor. The vehicle exercise schedule shall include instructions for exercising, inspecting, and replacement of components during storage and prior to shipment. Every time the vehicles are cared for there will be a check-sheet filled out to document what was checked (including the beginning and ending mileage), and how the checks were accomplished (e.g. visual, road test, functional test). All care will be done to the latest Technical Manual requirements and shall be signed-off on the check-sheet by the responsible contractor employee. A DCMA representative shall be given access to audit this process to ensure compliance. The completed check-sheets will be saved in an electronic format that can be searched for vehicle serial number as a minimum. These check-sheets shall be shared with the Government at any time they are requested. (CDRL E014 SOWE 13.2, Vehicle Care and Storage)

E.13.3 CARE AND STORAGE OF FINAL ACCEPTED VEHICLES PRIOR TO SHIPMENT. The care and storage of final accepted vehicles starts 45 days after Government acceptance. In the event that the Government does not elect to ship accepted vehicles the Government shall be responsible for the cost of the care and storage of all vehicles IAW the requirements of E.13.2 above.

E.13.4 STORAGE OF VEHICLES. If shipping instructions are not provided prior to final acceptance, the Contractor shall store the complete system on behalf of the Government. Storage of the vehicle shall be provided at no charge to the Government for 45 days from DD250. If shipping instructions are not provided by the 45th day, storage charges will begin accrual on the 46th day. The Contractor shall continue to store the vehicles for no longer than 1 (one) year from date of acceptance, unless otherwise negotiated.

**E.14 FAILURE MODES AND EFFECTS ANALYSES**

E.14.1 DESIGN FAILURE MODES AND EFFECTS ANALYSES. The contractor shall conduct and provide Design Failure Mode and Effects Analysis (DFMEA) on system-level JLTIV, and all critical items and key subsystems. The contractor shall identify all system and subsystem critical characteristics, defined as measurements or indicators that reflect safety or compliance with government regulations. For supplier-sourced and Contractor critical items or key subsystems, the contractor shall complete and deliver applicable DFMEAs. The contractor and their suppliers shall use the Automotive Industry Action Group (AIAG) FMEA manual (latest edition) as a guide to create the DFMEAs. Those potential failure modes and their effects that are deemed by the contractors or suppliers team as high risk, must be controlled, mitigated, or eliminated. The responsibility, target completion dates, the action results, and evidence of actions taken must be recorded for them to be considered complete and compliant to the requirements of this contract. The DFMEA must reflect the current drawing revision levels being used at all times. The contractor must develop a process of continual improvement via FMEA RPN reduction. The reduction process should be guided by top Risk Priority Number (RPN) lists and RPN goals not by setting an RPN threshold. Design FMEAs for other items (non-critical items, non-key subsystems) shall be made available upon Government request. The DFMEA and related documents are living documents. The contractor shall update these documents to reflect lessons learned, updated reliability predictions, and corrective actions. (CDRL E015 SOWE 14.1, DFMEA)

E.14.2 PROCESS FAILURE MODES AND EFFECTS ANALYSES. The contractor and their suppliers shall create Process Failure Modes and Effects Analyses (PFMEA) for all processes (manufacturing and assembly) necessary to build the specific Government product/vehicle. The contractor shall provide all key subsystem PFMEAs to the Government. The contractor and their suppliers shall use AIAG FMEA manual (latest edition) as a guide to create the PFMEAs. Those potential failure modes and their effects that are deemed by the contractors team as high risk, must be controlled, mitigated, or eliminated. The responsibility, target completion dates, the action results, and evidence of actions taken must be recorded for them to be considered complete and compliant to the requirements of this contract. The Process FMEA (PFMEA) must reflect the current processes being used at all times. The contractor must ensure that all aspects of their product realization process, including receiving, material handling, production, test and inspect, labeling, shipping, and prototyping are covered by these FMEAs. The contractor must develop a process of continual improvement via FMEA RPN reduction. The reduction process should be guided by top RPN lists and RPN goals not by setting an RPN threshold.

Process FMEAs for other items (non-critical items, non-key subsystems) shall be made available to the Government on request. The PFMEA and related documents (e.g. process map, process flow diagram, etc) are living documents. The contractor shall update these documents to reflect lessons learned, updated reliability predictions, and corrective actions. The Contractor shall ensure that the documents are traceable to the engineering change level & process changes, and shall be included in the configuration management change process (CDRL SOWC 1217 ECP). (CDRL E016 SOWE 14.2, PFMEA)

E.15 COST OF QUALITY. The Contractor shall implement and maintain a Cost of Quality System. It must encompass all the recognized sources of quality cost. These include costs in the standard categories of Prevention, Appraisal, and Internal and External Failure costs. The costs shall be tracked and overall trends reported to the contractors management at regularly scheduled management review meetings. The trend in the progress toward lowering the overall cost of quality without exact reference to the number of dollars must be made available to the Government on request, including during a quality management system audit. No formal submittal is required under this contract however the Government reserves the right to request the data be presented during Program Management Review (PMR). The Contractor shall ensure that tracking and elimination of failure costs be part of the contractors continual improvement processes.

The Contractor shall ensure that all quality activities be subject to variation reduction and continual process improvement, and focus on the elimination of non value-added activities. Contractor shall also ensure that such streamlining shortens the cycle time in satisfying customer requirements, reduces associated operating costs, and improves the quality of the product or service.

E.15.1 CONTINUAL IMPROVEMENT. The contractor shall ensure that all quality activities are subject to variation reduction and continual process improvement, and will focus on the elimination of non value-added activities to shorten the cycle time in satisfying customer requirements, reduce associated operating costs, and improve the quality of the product or service.

**Name of Offeror or Contractor:**

E.16 QUALITY PLANNING. The Contractor and subcontractors shall establish Product and process Quality Plans, FMEAs, and Control Plans that define the steps necessary to assure that the product meets the Governments needs and expectations in a timely manner. The Contractor and subcontractors shall assign responsibility for organizing a cross-functional team to a member of their own management staff. The cross-functional team shall use a multi-disciplinary approach for decision making that utilizes Advanced Product Quality Planning (APQP) and Control Plan Techniques that ultimately define and document how the requirements for quality will be met. Team actions should include but not be limited to:

- a. Development/finalization of special or key characteristics
- b. Development and review of both Design and Process Failure Mode and Effects Analysis (FMEAs)
- c. Development of control plans
- d. Utilization of analytical tools for both the design and production phases

E.16.1 PRODUCTION PART APPROVAL PROCESS (SEE ALSO SECTION ON CFAT). The Contractor and subcontractors shall demonstrate that its processes have the capability of meeting design and/or specification requirements prior to the presentation of product for Government acceptance. The product(s) shall be validated in accordance with the control plan developed by the suppliers cross-functional team and approved by the Contractor. The Contractor and subcontractors shall use the current revision of the Production Part Approval Process (PPAP) manual published by the Automotive Industry Action Group (AIAG) in Southfield, Michigan for requirements and associated processes used for submission and approval of PPAPs at each level. The PPAPs must reach level 3 for all parts made by suppliers as well as parts made in-house by the contractor prior to the presentation of the completed product for Government acceptance. If this cannot be accomplished before the first vehicle configuration and trailer is ready for sale, then the Contractor shall request approval from the Government to issue interim PPAP approval. The results of tests and verifications needed to meet FAT or CFAT requirements on the drawings or in the Technical Data Package (TDP) (if applicable) shall be part of the PPAP package. The PPAP must contain dimensional verifications, as outlined in the PPAP manual published by the AIAG. If suppliers are replaced by the Contractor or the Government between the test phase and the production phase of this contract, then the Contractor must redo the PPAP and/or FAT/CFAT and the supplier must again reach level 3 prior to presentation of the completed product for Government acceptance. The results achieved must demonstrate that the new supplier is at a minimum at the same quality level as the supplier that was replaced. If an existing supplier is used from a previous contract and a PPAP/CFAT/FAT was done during the previous contract, a decision by the Government is required to accept the previous testing as applicable. If a supplier moves the process, site, part, material, changes owners, changes processes from manual to automated, moves a part from internally built to externally built, then the PPAP/CFAT/FAT must be redone and level 3 must be achieved prior to presentation for Government acceptance. The Government reserves the right to review any or all associated production part approval documents/records at its discretion.

E.17 STATISTICAL PROCESS CONTROL (METRICS). A system for the use of statistical methods and the appropriate tools shall be developed and maintained. Their use must be considered and assigned at the product planning stage (APQP) by the contractor. The outputs of the planning and identification of the appropriate statistical tools must be included in the (process) control plans and in the quality planning process. These statistical methods must be evidenced at all critical phases of product realization process including in product development, purchasing, manufacturing, field analysis and/or returns, continual improvement, measurement systems analysis, safety, cost of quality, as a minimum. Statistical data analysis should be used as the basis of continual improvement. Therefore, the contractor must show that methods of data organization, data gathering, data analysis, and the conclusions drawn from these data are done in accordance with the accepted and agreed to methods outlined in the AIAG manual, Statistical Process Control Reference Manual, using the most current edition available. This process should be reviewed with the Government when requested and all charts reviewed with the Government upon request. Every metric should include a target that is derived from overall goals and should be reported in relation to the goal.

In the evaluation of critical processes, as identified by the contractor, efforts should be made to improve the process capability and the process potential capability. Copies of all data and completed control charts shall be treated as controlled documents and retained for the life of the contract. The government will be allowed to review all process control charts and their continual improvement plans, if necessary. The Contractor shall ensure that objective measures are identified to evaluate the performance and value of quality activities to the customer. The Contractor shall ensure that measures will be associated with readiness, customer satisfaction, and factors that can adversely affect component and organizational performance. The Government reserves the right to request this data be presented during Program Management Review (PMR). (CDRL E017 SOWE 17, SPC)

E.18 CUSTOMER SATISFACTION MEASUREMENT AND REPORTING. The Contractor shall measure and report the results of customer satisfaction surveys (customer perception) and the results of performance indicators from the finished product and service fulfillment processes. All of these measurements and results must be based on objective data. The objective metrics must include but not be limited to:

- a. Deprocessing defects
- b. Final truck defect measurements
- c. Delivery schedule performance
- d. Number of customer requested corrective actions (including PQDRs)
- e. Time to close customer requested corrective actions
- f. Cost of quality data
- g. Customer Satisfaction Surveys

**Name of Offeror or Contractor:**

The trends observed from these metrics and their associated corrective actions shall be presented to the PM regularly at the monthly PMRs and also be presented to the Contractors management at the regularly scheduled management reviews. (See section called, Statistical Process Control) The Contractors management team must provide the resources required for the customer satisfaction data to be collected, analyzed, presented, and for the corrective actions to be taken.

The trends in customer satisfaction metrics shall be compared to business and quality plan objectives. Negative trends shall require the Contractor to take action and alter long term plans if necessary.

The metrics and corrective actions derived from the measurement of customer satisfaction related data shall be delivered at the monthly PMRs. The presentation shall show trends in areas of mutual concern using graph or chart formats approved jointly by the contractor and the Government.

E.19 ERROR PROOFING SYSTEMS. The contractor is responsible for developing and implementing error proofing to ensure part presence and orientation of all assembled or kitted parts. Each assembly operation requires in-process checks and error proofing tools be used so that assembled or kitted parts are conforming prior to release of product for acceptance. When error proofing through design cannot be achieved, process error proofing measures will begin with prevention, and then employ detection techniques, and finally employ the least desirable method, inspection. Error proofing approaches used to improve the production process shall be reviewed during the APQP (FMEA and control plan) meetings, and shall utilize the Automotive Industry Action Group (AIAG) manual CQI 18 as the basis for development. Error proofing is required for all special processes and product characteristics, including but not limited to critical safety items.

E.20 PREVENTATIVE MAINTENANCE PLANS. The Contractor shall develop a Preventative Maintenance Plan for all Contractor equipment for the review and approval by the Government.  
(CDRL E018 SOWE 20, Preventative Maintenance Plans)

E.21 QUALITY ENGINEERING REVIEWS. The Contractor is responsible for auditing and assessing the performance of its STS Quality System/Procedures. The Contractor shall perform quality engineering reviews of all documentation affected by a Work Directive. These reviews are for determining the type and frequency of process/product controls or the required tests for performance/validation/production control necessary to achieve a cost-effective, consistently produced quality product. The contractor shall perform quality engineering reviews at a point in time, which shall assure that the resulting recommended controls and tests are processed and reflected in the design change documentation. Required process/product controls and tests shall be defined as product/part drawing Quality Assurance Provisions (QAPs) or within specifications referenced engineering drawings.

E.22 SYSTEM TECHNICAL SUPPORT (STS) QUALITY SYSTEMS. All Contract Quality requirements shall apply to STS products and services provided under this Contract.

E.23 QUALITY ASSURANCE PROVISIONS . The Contractor shall develop Quality Assurance Provisions (QAPs) for those provisions and notes on engineering drawings which annotate quality assurance requirements associated with product and process testing, production quality control, major characteristics, and critical safety items. QAPs shall be developed or updated as necessary for all applicable items, components or assemblies affected by a Work Directive. Developing and updating of QAPs shall be based on the recommendations of the Product Quality Manager (PQM) review. When developing QAPs, considerations shall be made towards achieving a cost-effective, consistently produced quality product. The use of specialized test and inspection equipment shall be directed by the Government PQM.

E.23.1 QAP DETERMINATION. QAPs shall be determined/identified using techniques such as Process Failure Mode and Effects Analysis (PFMEA), historical data review of field failures and non-conformances noted during component qualification testing and manufacturing, logistic support analysis data review, Reliability-Availability-Maintainability(RAM) data review, design engineering assessment, safety assessment and hazard analysis, and sound engineering judgment and experience.

E.23.2 MASTER QAP LIST (MQAPL). The contractor shall develop and maintain a MQAPL for all QAPs associated with any work directives. The Government reserves the right to review and discuss the current MQAPL during all meetings with the Contractor.

E.23.3 QAP CATEGORIES. QAPs are categorized IAW the following:

a. QAP Requirements for First Article Test (FAT) - Tests conducted on first production lot samples to represent the entire quantity of items produced by the established process. When a FAT is to be specified on the engineering drawing, all performance data shall be provided on the drawing. This data shall be provided either directly (by engineering drawing notes) or indirectly (by recognized standards described in drawing notes) that are referenced by the FAT notes. FAT requirements shall be applied to engineering drawings when any of the following conditions requires verification:

- When performance characteristics are to be evaluated by testing. Example: Durability, Environmental, Functional, or tests otherwise destructive in nature.

1. When environmental or process control characteristics are required to be evaluated by testing, Example: Salt spray, Climatic conditions (temperature extremes) and other tests such as X-ray.

2. When fit or interface of an item is to be demonstrated. Example: canvas items, special accessory kits (winterization, heater, deep

**Name of Offeror or Contractor:**

water fording, and Arctic kits).

3. When the item has been evaluated via Component First Article Test (CFAT) and requires additional tests controlled by lot or time between production runs.

b. Production Quality Control - The selection of the number of units and frequency of test/inspection requirements are stated in the drawing notes. These shall be established on a sound statistical basis and with good Quality Engineering judgment.

c. Critical Safety Item (CSI) - The Contractor shall identify Critical Safety Items (CSI) for all new designs/design changes. Critical safety items are items with one or more critical safety characteristic(s). A critical safety characteristic is a feature that if non-conforming, could result in a catastrophic failure of an item/assembly that could result in loss of life or injury to humans. Items which cannot be redesigned from a practical standpoint shall be brought to the attention of the PCO and COR as soon as possible. At the PCO's or COR's discretion, the Government may authorize the Contractor to identify the feature or characteristic on the drawing as a critical safety item IAW CDRL E019 SOWE 23.3 Critical Safety Item and any Work Directives under this contract.

1.) Requirements pertaining to Critical Safety Items shall be validated to ensure all critical safety aspects of the design are accurately reflected, parts/materials operate well below fatigue limits/stress levels, and the design allows for assessment by inspection and nondestructive test equipment. Validation shall be based on engineering analysis of the critical safety item characteristics and shall consider changes/deterioration through time or use, fatigue life, and operating conditions. A master list of Critical Safety Items and associated critical characteristics, including nomenclature and part number, shall be prepared, maintained and documented by the Contractor. The Critical Safety Items List shall be maintained and updated throughout the life of the contract. The Critical Safety Items shall also be referenced on the vehicle class and division drawing. This list shall be dynamic in nature with changes taking place as experience and knowledge are obtained and design changes are incorporated.

2.) Each critical safety item and assembly process shall be clearly identified as such on the engineering top drawing, part drawing or assembly drawings. The critical safety characteristic(s) for each critical safety item shall also be clearly identified as such on the engineering part or assembly drawing, and in all Quality Assurance Requirements/Quality Assurance Provisions. Critical Safety characteristics will require one hundred percent (100%) inspection or, a minimum Cpk/Ppk of 1.66. Alternate requirements/techniques may be used such as PPM or DOE when developing Quality Assurance Requirements/Quality Assurance Provisions, but must be approved by the government. The specific method for marking drawings shall be as delineated in ASME Y14.100.

d. Major - Any characteristic, other than a critical safety characteristic in which a common defect could cause complete physical and functional failure, or affect interchangeability, reliability, or maintainability of the item or its repair parts, or effective use of operation.

1) Major characteristics are often determined using sound engineering practice and judgment. Criteria which may be the determining factor that defines a characteristic as Major may include but are not limited to:

a.) Performance requirements specified on product drawings except those that involve destructive tests or that require 100% inspection.

b.) Drawing dimensions and geometric characteristics (usually 0.005" or less) such as position tolerance, concentricity, angularity or perpendicularity or tolerance greater than 0.005 where the application is very important.

c.) Electrical and Electronic characteristics (circuitry, resistance, crimping, soldering, continuity, functional dimensions).

d.) Installations involving an interface with hardware requiring a fit or pattern dimensions such as a flange or a bracket.

e.) Material specifications such as hardness, surface hardness depth, location of surface hardness, surface finish. Surface texture values of 32 micro-inch and finer, related waviness, and lay values.

f.) Thread characteristics, class 3, 4 and 5, or torque requirements.

g.) Fastening requirements (welding, brazing, staking, bonding) affecting reliability, interchangeability or function.

h.) Gear and spline dimensions that affect function and interchangeability.

**E.24 INTERCHANGEABILITY OF COMPONENTS.**

(a) DESIGN CHANGES TO ITEMS NOT UNDER GOV'T DESIGN CONTROL. Once the Government accepts the first production test item, or accepts the first end item you deliver, (whichever comes first) you must not make design changes to any item or part that is not under Government design control.

(b) WHEN THE POLICY CAN BE WAIVED. The Procuring Contracting Officer (PCO) will consider waiving this policy at your request. If your request reaches the CO after the first production item test has been performed, then we may conduct another first production test at no

**Name of Offeror or Contractor:**

additional cost to the Government.

(c) PRODUCTION OR DELIVERY DELAYS. Any production or delivery delays caused by this retesting will not be the basis for:

- (1) an "excusable delay" as defined in the DEFAULT clause of this contract.
- (2) be the basis for an increase in contract price or delivery schedule extension.

E.25 RADIOGRAPHIC INSPECTION. Radiographic inspection of production castings as required by applicable drawings and/or specifications shall be accomplished as follows:

- (1) Operators and radiographic equipment shall be qualified in accordance with NAS 410, prior to radiography of production castings.
- (2) The first casting shall be radiographed in all routine and random positions described on the position chart.
- (3) Subsequent castings shall be radiographed in those areas that were defective in the immediately preceding castings, until compliance with the required standard has been obtained. Objective evidence shall be provided by the producer that corrective action has been taken to eliminate the deficiency.
- (4) All rejectable areas may be repaired in accordance with an approved and qualified repair procedure (when required by applicable specification), and must meet the standard specified on applicable position chart. The producer retains the prerogative of repairing or scrapping defective material.
- (5) After above requirements have been accomplished, normal sampling shall be applied.
- (6) Normal sampling shall consist of radiographing one control casting selected by the Government Quality Assurance Representative, out of each thirty produced.
- (7) All routine and random positions shall be radiographed on each control casting except when the total exceeds the established number of radiographs that can be taken in a normal eight hour day. When the total number of positions to be radiographed on a control casting exceeds the maximum capability of facilities, random position shall be selected for radiography by the Government Quality Assurance Representative and rotated in such a manner that complete coverage is achieved within a cycle of five castings radiographed.
- (8) The occurrence of a rejectable defect in any area on a casting shall require the radiographic inspection of each subsequently poured casting in that area until the defective condition is corrected.
- (9) If the results of radiographic inspection on ten consecutive lots of material indicate that a satisfactory uniform product meeting the soundness requirements is being produced, the amount of radiographic testing may be reduced in accordance with a system established by the Contractor and approved by the Procuring Contracting Officer.
- (10) The occurrence of a rejectable defect in any area on a casting shall require return to normal sampling and the radiographic inspection of each subsequently poured casting in that area until the defective condition is corrected.

E.26 ADDITIONAL INSPECTIONS.

E.26.1 IN-PROCESS INSPECTION. In-process Inspection shall be incorporated into the contractor and sub-contractors overall quality system IAW ISO 9001:2008 and ISO/TS16949:2009, Quality management systems.

E.26.2 INSPECTION AND TEST EQUIPMENT. Except as otherwise provided for under this contract, the Contractor shall be responsible for the supply and maintenance of all measuring, monitoring, inspection, and test equipment necessary to assure that end item components conform to contract requirements. All Contractor furnished inspection equipment shall be available for use on or before the start of production. The Government will not furnish any inspection equipment for this contract.

E.26.2.1 GOVERNMENT INSPECTOR USE OF INSPECTION AND TEST EQUIPMENT. The Contractor shall make inspection equipment available to the Government Inspector during Government in-process or end item inspection. Upon completion of the inspection by the Government Inspector, all inspection equipment shall be returned to the Contractor.

E.26.3 INSPECTION RECORDS. The government reserves the right to review inspection records and process documents upon request.

E.26.4 DRAWINGS FOR INSPECTION. The contractor shall make the product drawing(s) available to the government upon request.

E.27 ARMOR TRACEABILITY. The contractor shall maintain traceability for all armor materials delivered under this contract. The contractor shall be responsible for recording the mill information (vendor name), melt and heat treat data for all parts produced with armor material, and will maintain certifications for the mechanical and ballistic requirements of the applicable material standard for each melt/heat treatment lot. The contractor shall record and tie this information to each part/weldment through permanent serialization of the components. Serial numbers should be applied to the lowest non-separable (i.e. weldment) level. For complex

**Name of Offeror or Contractor:**

weldments, all material lots utilized for the construction of that end item shall be recorded.

\*\*\* END OF NARRATIVE E0001 \*\*\*

DRAFT

**CONTINUATION SHEET****Reference No. of Document Being Continued**

Page 156 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

## SECTION F - DELIVERIES OR PERFORMANCE

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
F-1	52.211-17	DELIVERY OF EXCESS QUANTITIES	SEP/1989
F-2	52.242-15	STOP-WORK ORDER (AUG 1989) -- ALTERNATE I (APR 1984)	APR/1984
F-3	52.242-17	GOVERNMENT DELAY OF WORK	APR/1984
F-4	52.247-29	F.O.B. ORIGIN	FEB/2006
F-5	52.247-30	F.O.B. ORIGIN, CONTRACTOR'S FACILITY	FEB/2006
F-6	52.247-52	CLEARANCE AND DOCUMENTATION REQUIREMENTS--SHIPMENTS TO DOD AIR OR WATER TERMINAL TRANSSHIPMENT POINTS	FEB/2006
F-7	52.247-55	F.O.B. POINT FOR DELIVERY OF GOVERNMENT-FURNISHED PROPERTY	JUN/2003
F-8	52.247-58	LOADING, BLOCKING, AND BRACING OF FREIGHT CAR SHIPMENTS	APR/1984
F-9	52.247-59	F.O.B. ORIGIN--CARLOAD AND TRUCKLOAD SHIPMENTS	APR/1984
F-10	52.247-65	F.O.B. ORIGIN, PREPAID FREIGHT--SMALL PACKAGE SHIPMENTS	JAN/1991
F-11	252.211-7007	REPORTING OF GOVERNMENT-FURNISHED PROPERTY	AUG/2012
F-12	252.211-7008	USE OF GOVERNMENT-ASSIGNED SERIAL NUMBERS	SEP/2010
F-13	252.211-7003	ITEM UNIQUE IDENTIFICATION AND VALUATION	DEC/2013

(a) Definitions. As used in this clause

"Automatic identification device" means a device, such as a reader or interrogator, used to retrieve data encoded on machine-readable media.

"Concatenated unique item identifier" means

(1) For items that are serialized within the enterprise identifier, the linking together of the unique identifier data elements in order of the issuing agency code, enterprise identifier, and unique serial number within the enterprise identifier; or

(2) For items that are serialized within the original part, lot, or batch number, the linking together of the unique identifier data elements in order of the issuing agency code; enterprise identifier; original part, lot, or batch number; and serial number within the original part, lot, or batch number.

"Data matrix" means a two-dimensional matrix symbology, which is made up of square or, in some cases, round modules arranged within a perimeter finder pattern and uses the Error Checking and Correction 200 (ECC200) specification found within International Standards Organization (ISO)/International Electrotechnical Commission (IEC) 16022.

"Data qualifier" means a specified character (or string of characters) that immediately precedes a data field that defines the general category or intended use of the data that follows.

"DoD recognized unique identification equivalent" means a unique identification method that is in commercial use and has been recognized by DoD. All DoD recognized unique identification equivalents are listed at [http://www.acq.osd.mil/dpap/pdi/uid/iuid\\_equivalents.html](http://www.acq.osd.mil/dpap/pdi/uid/iuid_equivalents.html).

"DoD item unique identification" means a system of marking items delivered to DoD with unique item identifiers that have machine-readable data elements to distinguish an item from all other like and unlike items. For items that are serialized within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier and a unique serial number. For items that are serialized within the part, lot, or batch number within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier; the original part, lot, or batch number; and the serial number.

"Enterprise" means the entity (e.g., a manufacturer or vendor) responsible for assigning unique item identifiers to items.

"Enterprise identifier" means a code that is uniquely assigned to an enterprise by an issuing agency.

"Government's unit acquisition cost" means

(1) For fixed-price type line, subtitle, or exhibit line items, the unit price identified in the contract at the time of delivery;

(2) For cost-type or undefinitized line, subtitle, or exhibit line items, the Contractors estimated fully burdened unit cost to the Government at the time of delivery; and

(3) For items produced under a time-and-materials contract, the Contractors estimated fully burdened unit cost to the Government at the time of delivery.

"Issuing agency" means an organization responsible for assigning a globally unique identifier to an enterprise (e.g., Dun &

Name of Offeror or Contractor:

Bradstreet's Data Universal Numbering System (DUNS) Number, GS1 Company Prefix, Allied Committee 135 NATO Commercial and Government Entity (NCAGE)/Commercial and Government Entity (CAGE) Code, or the Coded Representation of the North American Telecommunications Industry Manufacturers, Suppliers, and Related Service Companies (ATIS-0322000) Number), European Health Industry Business Communication Council (EHIBCC) and Health Industry Business Communication Council (HIBCC)), as indicated in the Register of Issuing Agency Codes for ISO/IEC 15459, located at http://www.nen.nl/web/Normen-ontwikkelen/ISOIEC-15459-Issuing-Agency-Codes.htm.

"Issuing agency code" means a code that designates the registration (or controlling) authority for the enterprise identifier.

"Item" means a single hardware article or a single unit formed by a grouping of subassemblies, components, or constituent parts.

"Lot or batch number" means an identifying number assigned by the enterprise to a designated group of items, usually referred to as either a lot or a batch, all of which were manufactured under identical conditions.

"Machine-readable" means an automatic identification technology media, such as bar codes, contact memory buttons, radio frequency identification, or optical memory cards.

"Original part number" means a combination of numbers or letters assigned by the enterprise at item creation to a class of items with the same form, fit, function, and interface.

"Parent item" means the item assembly, intermediate component, or subassembly that has an embedded item with a unique item identifier or DoD recognized unique identification equivalent.

"Serial number within the enterprise identifier" means a combination of numbers, letters, or symbols assigned by the enterprise to an item that provides for the differentiation of that item from any other like and unlike item and is never used again within the enterprise.

"Serial number within the part, lot, or batch number" means a combination of numbers or letters assigned by the enterprise to an item that provides for the differentiation of that item from any other like item within a part, lot, or batch number assignment.

"Serialization within the enterprise identifier" means each item produced is assigned a serial number that is unique among all the tangible items produced by the enterprise and is never used again. The enterprise is responsible for ensuring unique serialization within the enterprise identifier.

"Serialization within the part, lot, or batch number" means each item of a particular part, lot, or batch number is assigned a unique serial number within that part, lot, or batch number assignment. The enterprise is responsible for ensuring unique serialization within the part, lot, or batch number within the enterprise identifier.

"Type designation" means a combination of letters and numerals assigned by the Government to a major end item, assembly or subassembly, as appropriate, to provide a convenient means of differentiating between items having the same basic name and to indicate modifications and changes thereto.

"Unique item identifier" means a set of data elements marked on items that is globally unique and unambiguous. The term includes a concatenated unique item identifier or a DoD recognized unique identification equivalent.

"Unique item identifier type" means a designator to indicate which method of uniquely identifying a part has been used. The current list of accepted unique item identifier types is maintained at http://www.acq.osd.mil/dpap/pdi/uid/uii\_types.html.

(b) The Contractor shall deliver all items under a contract line, subline, or exhibit line item.

(c) Unique item identifier.

(1) The Contractor shall provide a unique item identifier for the following:

(i) Delivered items for which the Government's unit acquisition cost is \$5,000 or more, except for the following line items:

Contract Line,  
Subline, or

Exhibit Line Item Number

Item Description

\_\_-1-\_\_\_\_\_

-2-\_\_\_\_\_

\_\_-1-\_\_\_\_\_

-2-\_\_\_\_\_

\_\_-1-\_\_\_\_\_

-2-\_\_\_\_\_

Name of Offeror or Contractor:

(ii) Items for which the Government's unit acquisition cost is less than \$5,000 that are identified in the Schedule or the following table:

Contract Line, Subline, or Exhibit Line Item Number	Item Description
-3-	-4-
-3-	-4-
-3-	-4-

(iii) Subassemblies, components, and parts embedded within delivered items, items with warranty requirements, DoD serially managed reparable and DoD serially managed nonreparable as specified in Attachment Number -5-

(iv) Any item of special tooling or special test equipment as defined in FAR 2.101 that have been designated for preservation and storage for a Major Defense Acquisition Program as specified in Attachment Number -6-

(v) Any item not included in paragraphs (c)(1)(i), (ii), (iii), or (iv) of this clause for which the contractor creates and marks a unique item identifier for traceability.

(2) The unique item identifier assignment and its component data element combination shall not be duplicated on any other item marked or registered in the DoD Item Unique Identification Registry by the contractor.

(3) The unique item identifier component data elements shall be marked on an item using two dimensional data matrix symbology that complies with ISO/IEC International Standard 16022, Information Technology--International symbology specification--Data matrix; ECC200 data matrix specification.

(4) Data syntax and semantics of unique item identifiers. The Contractor shall ensure that--

(i) The data elements (except issuing agency code) of the unique item identifier are encoded within the data matrix symbol that is marked on the item using one of the following three types of data qualifiers, as determined by the Contractor:

(A) Application Identifiers (AIs) (Format Indicator 05 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.

(B) Data Identifiers (DIs) (Format Indicator 06 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.

(C) Text Element Identifiers (TEIs) (Format Indicator 12 of ISO/IEC International Standard 15434), in accordance with the Air Transport Association Common Support Data Dictionary; and

(ii) The encoded data elements of the unique item identifier conform to the transfer structure, syntax, and coding of messages and data formats specified for Format Indicators 05, 06, and 12 in ISO/IEC International Standard 15434, Information Technology-Transfer Syntax for High Capacity Automatic Data Capture Media.

(5) Unique item identifier.

(i) The Contractor shall--

(A) Determine whether to--

(1) Serialize within the enterprise identifier;

(2) Serialize within the part, lot, or batch number; or

(3) Use a DoD recognized unique identification equivalent (e.g. Vehicle Identification Number); and

**Name of Offeror or Contractor:**

(B) Place the data elements of the unique item identifier (enterprise identifier; serial number; DoD recognized unique identification equivalent; and for serialization within the part, lot, or batch number only: Original part, lot, or batch number) on items requiring marking by paragraph (c)(1) of this clause, based on the criteria provided in MIL-STD-130, Identification Marking of U.S. Military Property, latest version;

(C) Label shipments, storage containers and packages that contain uniquely identified items in accordance with the requirements of MIL-STD-129, Military Marking for Shipment and Storage, latest version; and

(D) Verify that the marks on items and labels on shipments, storage containers, and packages are machine readable and conform to the applicable standards. The contractor shall use an automatic identification technology device for this verification that has been programmed to the requirements of Appendix A, MIL-STD-130, latest version.

(ii) The issuing agency code--

(A) Shall not be placed on the item; and

(B) Shall be derived from the data qualifier for the enterprise identifier.

(d) For each item that requires item unique identification under paragraph (c)(1)(i), (ii), or (iv) of this clause or when item unique identification is provided under paragraph (c)(1)(v), in addition to the information provided as part of the Material Inspection and Receiving Report specified elsewhere in this contract, the Contractor shall report at the time of delivery, as part of the Material Inspection and Receiving Report, the following information:

- (1) Unique item identifier.
- (2) Unique item identifier type.
- (3) Issuing agency code (if concatenated unique item identifier is used).
- (4) Enterprise identifier (if concatenated unique item identifier is used).
- (5) Original part number (if there is serialization within the original part number).
- (6) Lot or batch number (if there is serialization within the lot or batch number).
- (7) Current part number (optional and only if not the same as the original part number).
- (8) Current part number effective date (optional and only if current part number is used).
- (9) Serial number (if concatenated unique item identifier is used).
- (10) Government's unit acquisition cost.
- (11) Unit of measure.
- (12) Type designation of the item as specified in the contract schedule, if any.
- (13) Whether the item is an item of Special Tooling or Special Test Equipment.
- (14) Whether the item is covered by a warranty.

(e) For embedded subassemblies, components, and parts that require DoD item unique identification under paragraph (c)(1)(iii) of this clause or when item unique identification is provided under paragraph (c)(1)(v), the Contractor shall report as part of the Material Inspection and Receiving Report specified elsewhere in this contract, the following information:

- (1) Unique item identifier of the parent item under paragraph (c)(1) of this clause that contains the embedded subassembly, component, or part.
- (2) Unique item identifier of the embedded subassembly, component, or part.
- (3) Unique item identifier type.\*\*
- (4) Issuing agency code (if concatenated unique item identifier is used).\*\*
- (5) Enterprise identifier (if concatenated unique item identifier is used).\*\*

**Name of Offeror or Contractor:**

(6) Original part number (if there is serialization within the original part number).\*\*

(7) Lot or batch number (if there is serialization within the lot or batch number).\*\*

(8) Current part number (optional and only if not the same as the original part number).\*\*

(9) Current part number effective date (optional and only if current part number is used).\*\*

(10) Serial number (if concatenated unique item identifier is used).\*\*

(11) Description.

\*\* Once per item.

(f) The Contractor shall submit the information required by paragraphs (d) and (e) of this clause as follows:

(1) End items shall be reported using the receiving report capability in Wide Area WorkFlow (WAWF) in accordance with the clause at 252.232-7003. If WAWF is not required by this contract, and the contractor is not using WAWF, follow the procedures at <http://dodprocurementtoolbox.com/site/uidregistry/>.

(2) Embedded items shall be reported by one of the following methods--

(i) Use of the embedded items capability in WAWF;

(ii) Direct data submission to the IUID Registry following the procedures and formats at <http://dodprocurementtoolbox.com/site/uidregistry/>; or

(iii) Via WAWF as a deliverable attachment for exhibit line item number -7-, Unique Item Identifier Report for Embedded Items, Contract Data Requirements List, DD Form 1423.

(g) Subcontracts. If the Contractor acquires by contract any items for which item unique identification is required in accordance with paragraph (c)(1) of this clause, the Contractor shall include this clause, including this paragraph (g), in the applicable subcontract(s), including subcontracts for commercial items.

(End of clause)

F-14 252.211-7006 PASSIVE RADIO FREQUENCY IDENTIFICATION

SEP/2011

(a) Definitions. As used in this clause--

"Advance shipment notice" means an electronic notification used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as passive radio frequency identification (RFID) or item unique identification (IUID) information, order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment.

"Bulk commodities" means the following commodities, when shipped in rail tank cars, tanker trucks, trailers, other bulk wheeled conveyances, or pipelines:

- (1) Sand.
- (2) Gravel.
- (3) Bulk liquids (water, chemicals, or petroleum products).
- (4) Ready-mix concrete or similar construction materials.
- (5) Coal or combustibles such as firewood.
- (6) Agricultural products such as seeds, grains, or animal feed.

"Case" means either a MIL-STD-129 defined exterior container within a palletized unit load or a MIL-STD-129 defined individual shipping container.

"Electronic Product Code\TM\ (EPC)" means an identification scheme for universally identifying physical objects via RFID tags and other means. The standardized EPC\TM\ data consists of an EPC\TM\ (or EPC\TM\ identifier) that uniquely identifies an individual object, as well as an optional filter value when judged to be necessary to enable effective and efficient reading of the EPC\TM\ tags. In addition to this standardized data, certain classes of EPC\TM\ tags will allow user-defined data. The EPC\TM\ Tag Data Standards will define the length and position of this data, without defining its content.

Name of Offeror or Contractor:

"EPCglobal" means a subscriber-driven organization comprised of industry leaders and organizations focused on creating global standards for the adoption of passive RFID technology.

"Exterior container" means a MIL-STD-129 defined container, bundle, or assembly that is sufficient by reason of material, design, and construction to protect unit packs and intermediate containers and their contents during shipment and storage. It can be a unit pack or a container with a combination of unit packs or intermediate containers. An exterior container may or may not be used as a shipping container.

"Palletized unit load" means a MIL-STD-129 defined quantity of items, packed or unpacked, arranged on a pallet in a specified manner and secured, strapped, or fastened on the pallet so that the whole palletized load is handled as a single unit. A palletized or skidded load is not considered to be a shipping container. A loaded 463L System pallet is not considered to be a palletized unit load. Refer to the Defense Transportation Regulation, DoD 4500.9-R, Part II, Chapter 203, for marking of 463L System pallets.

"Passive RFID tag" means a tag that reflects energy from the reader/interrogator or that receives and temporarily stores a small amount of energy from the reader/interrogator signal in order to generate the tag response. The only acceptable tags are EPC Class 1 passive RFID tags that meet the EPCglobal\TM\ Class 1 Generation 2 standard.

"Radio frequency identification (RFID)" means an automatic identification and data capture technology comprising one or more reader/interrogators and one or more radio frequency transponders in which data transfer is achieved by means of suitably modulated inductive or radiating electromagnetic carriers.

"Shipping container" means a MIL-STD-129 defined exterior container that meets carrier regulations and is of sufficient strength, by reason of material, design, and construction, to be shipped safely without further packing (e.g., wooden boxes or crates, fiber and metal drums, and corrugated and solid fiberboard boxes).

(b)(1) Except as provided in paragraph (b)(2) of this clause, the Contractor shall affix passive RFID tags, at the case- and palletized-unit-load packaging levels, for shipments of items that--

(i) Are in any of the following classes of supply, as defined in DoD 4140.1-R, DoD Supply Chain Materiel Management Regulation, APl.1.11:

(A) Subclass of Class I--Packaged operational rations.

(B) Class II--Clothing, individual equipment, tentage, organizational tool kits, hand tools, and administrative and housekeeping supplies and equipment.

(C) Class III--Packaged petroleum, lubricants, oils, preservatives, chemicals, and additives.

(D) Class IV--Construction and barrier materials.

(E) Class VI--Personal demand items (non-military sales items).

(F) Subclass of Class VIII--Medical materials (excluding pharmaceuticals, biologicals, and reagents--suppliers should limit the mixing of excluded and non-excluded materials).

(G) Class IX--Repair parts and components including kits, assemblies and subassemblies, repairable and consumable items required for maintenance support of all equipment, excluding medical-peculiar repair parts; and

(ii) Are being shipped to one of the locations listed at http://www.acq.osd.mil/log/rfid/ or to--

(A) A location outside the contiguous United States when the shipment has been assigned Transportation Priority 1, or to--

(B) The following location(s) deemed necessary by the requiring activity:

Contract line, subline, or exhibit line item number	Location name	City	State	DoDAAC
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-1-	-2-	-3-	-4-	-5-
-----	-----	-----	-----	-----

(2) The following are excluded from the requirements of paragraph (b)(1) of this clause:

(i) Shipments of bulk commodities.

Name of Offeror or Contractor:

(ii) Shipments to locations other than Defense Distribution Depots when the contract includes the clause at FAR 52.213-1, Fast Payment Procedures.

(c) The Contractor shall--

(1) Ensure that the data encoded on each passive RFID tag are globally unique (i.e., the tag ID is never repeated across two or more RFID tags) and conforms to the requirements in paragraph (d) of this clause;

(2) Use passive tags that are readable; and

(3) Ensure that the passive tag is affixed at the appropriate location on the specific level of packaging, in accordance with MIL-STD-129 (Section 4.9.2) tag placement specifications.

(d) Data syntax and standards. The Contractor shall encode an approved RFID tag using the instructions provided in the EPC\TM\ Tag Data Standards in effect at the time of contract award. The EPC\TM\ Tag Data Standards are available at http://www.epcglobalinc.org/standards/.

(1) If the Contractor is an EPCglobal\TM\ subscriber and possesses a unique EPC\TM\ company prefix, the Contractor may use any of the identifiers and encoding instructions described in the most recent EPC\TM\ Tag Data Standards document to encode tags.

(2) If the Contractor chooses to employ the DoD identifier, the Contractor shall use its previously assigned Commercial and Government Entity (CAGE) code and shall encode the tags in accordance with the tag identifier details located at http://www.acq.osd.mil/log/rfid/tag\_data.htm. If the Contractor uses a third-party packaging house to encode its tags, the CAGE code of the third-party packaging house is acceptable.

(3) Regardless of the selected encoding scheme, the Contractor with which the Department holds the contract is responsible for ensuring that the tag ID encoded on each passive RFID tag is globally unique, per the requirements in paragraph (c)(1) of this clause.

(e) Advance shipment notice. The Contractor shall use Wide Area WorkFlow (WAWF), as required by DFARS 252.232-7003, Electronic Submission of Payment Requests, to electronically submit advance shipment notice(s) with the RFID tag ID(s) (specified in paragraph (d) of this clause) in advance of the shipment in accordance with the procedures at https://wawf.eb.mil/.

(End of clause)

F-15 52.242-4022 DELIVERY SCHEDULE SEP/2008 (TACOM)

(a) Delivery under this contract must conform to the required schedule specified below, unless acceleration is acceptable.

(b) DEFINITIONS:

(1) DAYS means the number of days after the date of contract award when you must deliver the stated quantity (QTY) of supplies.

(2) DELIVERY is defined as follows:

FOB Origin - Contractor is required to deliver its shipment as provided in FAR 52.247-29(a)(1)-(4) by the time specified in the individual contract; or

FOB Destination - Contractor is required to deliver its shipment as provided in FAR 52.247-34(a)(1)-(2) by the time specified in the individual contract. The contractor must take into consideration the length of time necessary to deliver its shipment to the destination designated in the contract, to ensure that the item reaches its destination by the time reflected in the contract.

(c) The Government requires delivery to be made according to the following schedule:

(1) GOVERNMENT REQUIRED DELIVERY SCHEDULE WITH FIRST ARTICLE TEST (FAT)

Table with 3 columns: ITEM NO., QTY, WITHIN DAYS AFTER DATE OF CONTRACT AWARD. Rows include 0001AA (6 EA), 0001BA (105 EA), 0002AA (1 EA), and 0002BA (10 EA).

CONTINUATION SHEET

Reference No. of Document Being Continued

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

Name of Offeror or Contractor:

0003AA	5 EA	SEE SECTION B
0004BA	65 EA	SEE SECTION B
0101AA	2 EA	SEE SECTION B
0101BA	5 EA	SEE SECTION B
0102AA	1 EA	SEE SECTION B
0103AA	1 EA	SEE SECTION B
0104AA	4 EA	SEE SECTION B

(2) GOVERNMENT REQUIRED DELIVERY SCHEDULE IF THERE IS NO FIRST ARTICLE TEST (FAT), OR IF FAT IS WAIVED

ITEM NO.	QTY	WITHIN DAYS AFTER DATE OF CONTRACT AWARD
N/A	N/A	N/A

(d) Accelerated delivery schedule is not acceptable.

(e) If an accelerated delivery schedule is not acceptable, the required delivery schedule above will apply. If it is acceptable, you may propose an accelerated delivery schedule at no additional cost; fill in the appropriate information here:

(1) OFFERORS PROPOSED ACCELERATED DELIVERY SCHEDULE WITH FIRST ARTICLE TEST (FAT)

ITEM NO.	QTY	WITHIN DAYS AFTER DATE OF CONTRACT AWARD
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(2) OFFERORS PROPOSED ACCELERATED DELIVERY SCHEDULE WITHOUT FIRST ARTICLE TEST (FAT), or IF FAT IS WAIVED

ITEM NO.	QTY	WITHIN DAYS AFTER DATE OF CONTRACT AWARD
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[End of Clause]

F-16

52.247-60  
(WARREN)

GUARANTEED SHIPPING CHARACTERISTICS

APR/2014

(a) The offeror is requested to complete subparagraph (a)(1) of this clause, for each part or component which is packed or packaged separately. This information will be used to determine transportation costs for evaluation purposes. If the offeror does not furnish sufficient data in subparagraph (a)(1) of this clause, to permit determination by the Government of the item shipping costs, evaluation will be based on the shipping characteristics submitted by the offeror whose offer produces the highest transportation costs or in the absence thereof, by the Contracting Officers best estimate of the actual transportation costs. If the item shipping costs, based on the actual shipping characteristics, exceed the item shipping costs used for evaluation purposes, the Contractor agrees that the contract price shall be reduced by an amount equal to the difference between the transportation costs actually incurred, and the costs which would have been incurred if the evaluated shipping characteristics had been accurate.

(1) To be completed by the offeror:

(i) Type of container: Wood Box \_\_\_\_, Fiber Box \_\_\_\_, Barrel \_\_\_\_, Reel \_\_\_\_, Drum \_\_\_\_, Other (Specify) \_\_\_\_\_;

(ii) Shipping configuration: Knocked-down \_\_\_\_, Set-up \_\_\_\_, Nested \_\_\_\_, Other (specify) \_\_\_\_\_;

(iii) Size of container: \_\_\_\_ (Length), x \_\_\_\_ (Width), x \_\_\_\_ (Height) = \_\_\_\_ Cubic Ft;

(iv) Number of items per container \_\_\_\_\_ each;

(v) Gross weight of container and contents \_\_\_\_ Lbs;

**CONTINUATION SHEET**

Reference No. of Document Being Continued

Page 164 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

(vi) Palletized/skidded \_\_\_Yes \_\_\_ No;

(vii) Number of containers per pallet/skid \_\_\_\_\_;

(viii) Weight of empty pallet bottom/skid and sides \_\_\_\_\_ Lbs;

(ix) Size of pallet/skid and contents \_\_\_\_\_ Lbs\* Cube \_\_\_\_\_;

(b) The guaranteed shipping characteristics requested in subparagraph (a)(1) of this clause do not establish actual transportation requirements, which are specified elsewhere in this solicitation. The guaranteed shipping characteristics will be used only for the purpose of evaluating offers and establishing any liability of the successful offeror for increased transportation costs resulting from actual shipping characteristics which differ from those used for evaluation in accordance with paragraph (a) of this clause.

(End of Clause)

\*52.247-4060, TACOM Clarification for Guaranteed Shipping Characteristics

While the Guaranteed Shipping Characteristics clause at 52.247-60 requires at item (ix) the size of pallet/skid and contents, TACOM requests that contractors use the following to calculate the data:

a. To calculate Lbs in item (ix) above:  $[(v) \times (vii)] + (viii)$

b. To calculate Cube in item (ix) above: provide length, width and height of loaded pallet in inches. This should be greater than item (iii).

(End of TACOM clause clarifying language)

F-17      52.225-4000      VERIFICATION OF FOREIGN MILITARY SALES (FMS) ADDRESSES      APR/2000  
(TACOM)

At least 10 days prior to the first shipment of FMS supplies under this contract, the Contractor shall submit an email request to the cognizant Transportation Office via the Administrative Contracting Officer (ACO) for verification of the FMS "ship-to" address(es) contained in this contract.

[End of Clause]

F-18      52.247-4005      SHIPMENT OF SUPPLIES AND DETENTION OF CARRIERS EQUIPMENT      AUG/2003  
(TACOM)

(a) Unless otherwise directed, shipment items under this contract in following order of priority:

(1) Government/Commercial Bill(s) of Lading or US Postal Services;

(2) Prepaid Commercial Bill(s) of Lading with transportation charges entered as a separate item on the invoice; or

(3) As otherwise instructed when the contract prohibits use of Government funds for transportation costs.

(b) The Contractor will request:

(1) Government Bills of Lading and

(2) Routing and other instructions, including Defense Transportation Regulation (DTR), DOD Regulation 4500.9-R-Part 2 Cargo Movement, as to the methods of shipment to be followed by the Contractor, or

(c) The Contractor and subcontractor(s) must allow prompt and convenient access of carrier's equipment to loading docks or

Name of Offeror or Contractor:

platforms where the contract items supplies will be loaded. Any charges for detention of carrier's equipment shall be for the account of the Contractor, except when the detention is required or caused by the Government.

[End of Clause]

F-19 52.247-4010 TRANSPORTATION DATA FOR FOB ORIGIN OFFERS (TACOM)

FEB/1994

(a) Provide the following information for us to use in selecting the most favorable mode of shipment. We'll also use this information in our evaluation of transportation costs.

Offeror represents that:

(1) Facilities for shipping by rail

- [ ] are
[ ] are not

available at the F.O.B. point(s) stated in this solicitation.

(2) If rail facilities are not available at the F.O.B. point(s), the name and location of the nearest team track is:

(NAME) (LOCATION)

(3) Facilities for shipping by water

- [ ] are
[ ] are not

available at the F.O.B. point(s) stated in this solicitation.

(4) Facilities for shipping by motor

- [ ] are
[ ] are not

available at the F.O.B. point(s) stated in this solicitation.

(5) If there is a Contractor Reimbursable Loading Charge and you didn't include it in the offered unit price in Section B, please indicate it below, per unit:

RAIL: /Unit MOTOR: /Unit WATER: /Unit

CAUTION: GIVE THE COST OF REIMBURSABLE LOADING CHARGE (NOT ALREADY IN THE OFFERED UNIT PRICE) ON A PER UNIT BASIS. THE UNIT OF MEASURE IS AS INDICATED ON THE SCHEDULE PAGE, SECTION B, UNDER THE UNIT COLUMN.

(b) We will consider any charge listed above in the overall transportation evaluation of this solicitation. Unless you fill-in the above information for loading charges, we will consider all costs associated with loading to be included in the item price offered in Section B. These costs include: (i) loading, (ii) blocking, (iii) bracing, (iv) drayage, (v) switching, or (vi) any other service necessary to effect delivery F.O.B. carrier's equipment you've indicated as available and we specify at time of shipment.

(c) If rail facilities aren't available at the designated F.O.B. point(s), rail won't be used unless directed by the Administrative Contracting Officer (ACO). If the ACO tells you rail facilities will be used, we'll adjust the contract price by adding the loading charge filled in above for transportation to the nearest rail facility.

(d) IF YOU DO NOT FILL IN AN ADDITIONAL CHARGE FOR RAIL SHIPMENT ABOVE, YOU AGREE THAT THE CONTRACT PRICE ALREADY INCLUDES ALL CHARGES FOR SUCH SHIPMENTS. THEREFORE, SHIPMENT BY RAIL WILL NOT COST US ANY MORE.

[End of Clause]

F-20 52.247-4011 FOB POINT (TACOM)

SEP/1978

**CONTINUATION SHEET**

**Reference No. of Document Being Continued**

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

Delivery on F.O.B. origin offers will be F.O.B. Carrier's equipment, wharf, or freight station, at the Government's option, at or near:

(1) Contractor's Plant: \_\_\_\_\_  
 (City) (State) (ZIP) (County)

(2) Subcontractor's Plant: \_\_\_\_\_  
 (City) (State) (ZIP) (County)

[End of Clause]

F-21 52.247-4017 DEPOT ADDRESS FOR THE APPLICABLE MODE OF SHIPMENTS: IN-THE-CLEAR NOV/2009  
 (TACOM) ADDRESSES

Rail/ Motor SPLC*	MILSTRIP Address Code	Rail Ship To:	Motor Ship To:	Parcel Post Mail To:
206721/ 209405	W25G1U	Transportation Officer Defense Dist Depot Susquehanna New Cumberland, PA	Transportation Officer Defense Dist Depot Susquehanna New Cumberland, PA	Transportation Officer Defense Dist Depot Susquehanna New Cumberland, PA 17070-5001

NOTE: All deliveries to New Cumberland MUST be scheduled at least 10 days prior to the delivery date. The carrier or contractor must call the New Cumberland DDSP customer service number, 800-307-8496 and provide the following information: contract number, item name, National Stock Number, total weight and cube, and vendor. All shipments to this MILSTRIP address code (W25G1U) are for mission stock and they will need to know that as well, but if you have instructions from the Contracting Officer to use MILSTRIP address code W25N14 instead, you must inform the appointment-taker that the delivery is for Consolidation and Containerization Point (CCP) stock. Appointments for FOB Origin shipments should be coordinated with DCMA Transportation.

875670/ 875675	W62G2T	Transportation Officer XU Def Dist Depot San Joaquin 25600 S Chrisman Rd Rec Whse 10 Tracy, Ca 95376-5000	Transportation Officer XU Def Dist Depot San Joaquin 25600 S Chrisman Rd Rec Whse 10 Tracy, Ca 95376-5000	Transportation Officer Dist Depot San Joaquin P O Box 96001 Stockton, CA 95296-0130
471995/ 471996	W31G1Z	Transportation Officer Anniston Army Depot, Bynum, AL	Transportation Officer Anniston Army Depot, Bynum, AL	Transportation Officer Anniston Army Depot, Anniston, AL 36201-5021
209741/ 209770	W25G1R	Transportation Officer Letterkenny Army Depot, Culbertson, PA	Transportation Officer Letterkenny Army Depot, Chambersburg, PA	Transportation Officer Letterkenny Army Depot, Chambersburg, PA 17201-4150
661136/ 661157	W45G19	Transportation Officer Red River Army Depot, Defense, TX	Transportation Officer Red River Army Depot, Texarkana, TX	Transportation Officer Red River Army Depot, Texarkana, TX 75507-5000
764538/ 764535	W67G23	Transportation Officer Tooele Army Depot, Warner, UT	Transportation Officer Tooele Army Depot, Tooele, UT	Transportation Officer Tooele Army Depot, Tooele, UT 84074-5003

\*\*\*SPLC indicates Standard Point Locator Code.

NOTE: The following is applicable only when so specified in an individual order or delivery increment:

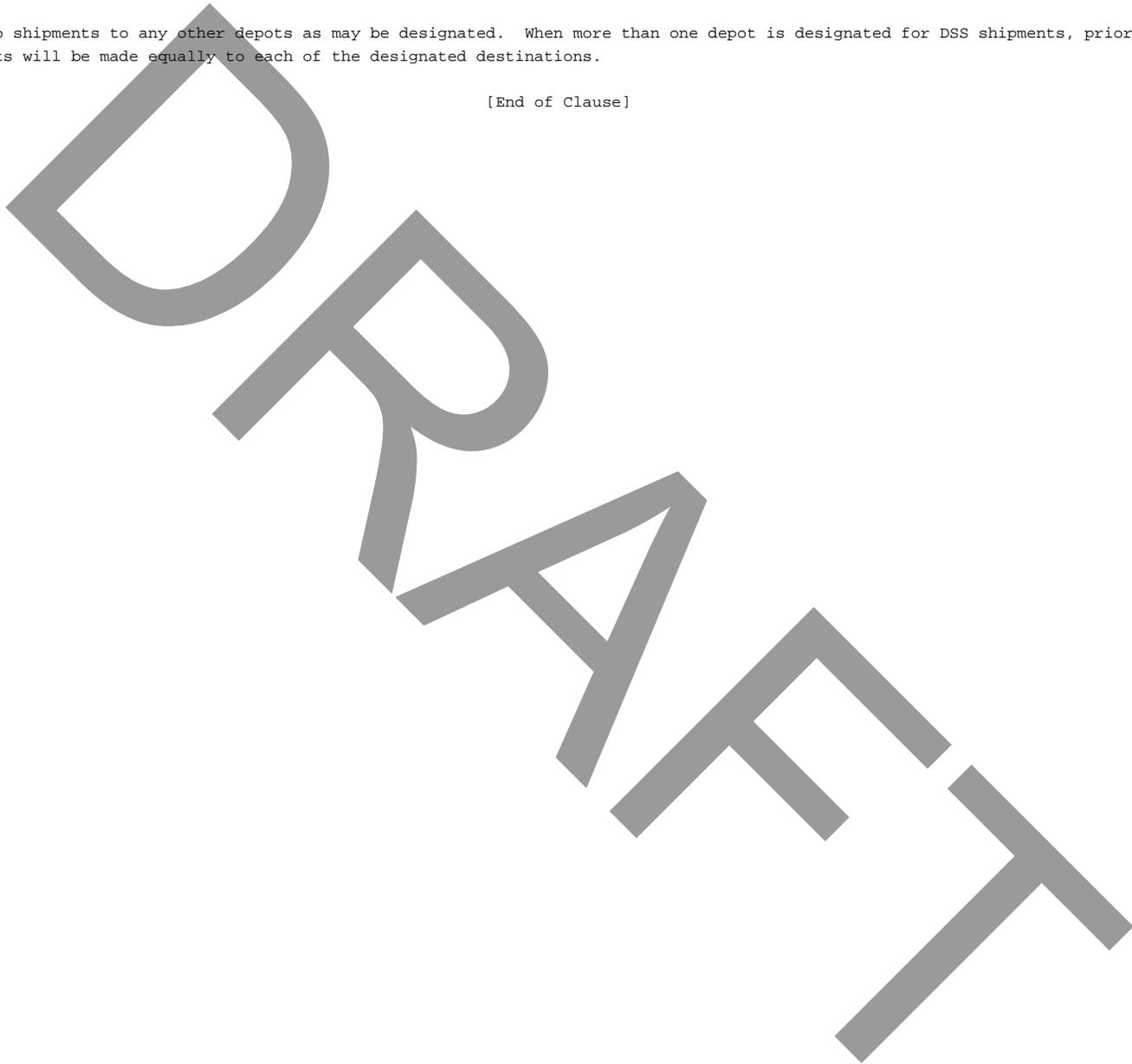
**Name of Offeror or Contractor:**

This requirement is a depot replenishment buy, a portion of which is or may be required to fill Direct Support System (DSS) requisitions. Shipment shall be made, as specified, to one or more of:

- New Cumberland Army Depot
- Red River Army Depot
- Sharpe Army Depot

prior to shipments to any other depots as may be designated. When more than one depot is designated for DSS shipments, priority shipments will be made equally to each of the designated destinations.

[End of Clause]



**CONTINUATION SHEET**

**Reference No. of Document Being Continued**

**PIIN/SIIN** W56HZV-14-R-0039

**MOD/AMD**

**Name of Offeror or Contractor:**

**SECTION G - CONTRACT ADMINISTRATION DATA**

<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
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G-1	252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS	MAY/2013
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(a) Definitions. As used in this clause--

"Department of Defense Activity Address Code (DoDAAC)" is a six position code that uniquely identifies a unit, activity, or organization.

"Document type" means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).

"Local processing office (LPO)" is the office responsible for payment certification when payment certification is done external to the entitlement system.

(b) Electronic invoicing. The WAWF system is the method to electronically process vendor payment requests and receiving reports, as authorized by DFARS 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(c) WAWF access. To access WAWF, the Contractor shall--

(1) Have a designated electronic business point of contact in the System for Award Management at <https://www.acquisition.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this Web site.

(d) WAWF training. The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the "Web Based Training" link on the WAWF home page at <https://wawf.eb.mil/>.

(e) WAWF methods of document submission. Document submissions may be via Web entry, Electronic Data Interchange, or File Transfer Protocol.

(f) WAWF payment instructions. The Contractor must use the following information when submitting payment requests and receiving reports in WAWF for this contract/order:

(1) Document type. The Contractor shall use the following document type(s).

-1-

(2) Inspection/acceptance location. The Contractor shall select the following inspection/acceptance location(s) in WAWF, as specified by the contracting officer.

-2-

(3) Document routing. The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

Routing Data Table\*

Field Name in WAWF	Data to be entered in WAWF
Pay Official DoDAAC	-3-
Issue By DoDAAC	-4-
Admin DoDAAC	-5-
Inspect By DoDAAC	-6-
Ship To Code	-7-
Ship From Code	-8-
Mark For Code	-9-
Service Approver (DoDAAC)	-10-
Service Acceptor (DoDAAC)	-11-
Accept at Other DoDAAC	-12-
LPO DoDAAC	-13-
DCAA Auditor DoDAAC	-14-
Other DoDAAC(s)	-15-



**Name of Offeror or Contractor:**

The paying office DoDAAC and mailing address is located on the first page of the award. To track the status of your invoice, click on the link, Pay status (myInvoice-External link) at the bottom of the left-hand menu.

If your paying office is Columbus, direct any payment-related questions to the Defense Finance Accounting Services (DFAS) Columbus at 1-888-756-4571. Please have your order number and invoice ready when calling about payment status. If your paying office is other than Columbus, contact your contract administrator for the customer service phone/fax numbers.

[End of Clause]

G-5 52.242-4011 WORK DIRECTIVES FEB/1998  
(TACOM)

(a) A portion of the services under this contract shall be performed in accordance with Work Directives signed by the Contracting Officer. Sections of the scope performed in accordance with Work Directives include C.X.X, C.X.Y and C.X.Z. Each Work Directive shall include, but not necessarily be limited to, the following information:

- (1) Reference to specific requirement(s) of Section C of this Contract under which the work is to be performed.
- (2) Objective of the work to be performed.
- (3) Number of hours to accomplish the work.
- (4) Estimated completion date as applicable.
- (5) Identification of the Contract Line Item Number (CLIN) under which the work is to be performed.

(6) Relative priority of the work to be performed, if applicable. Work shall be performed in sequential order unless otherwise stated.

(b) The Government has the unilateral right to increase, decrease and prioritize the work to be performed hereunder by the issuance of Work Directives by the Contracting Officer. It is understood and agreed that such adjustments shall be made within the general scope of work and level of effort of the contract and without equitable adjustment thereto.

(c) If, at any time, the Contractor has reason to believe that the hours which it expects to incur in the performance of a Work Directive, when added to all hours incurred previously in performance of such Work Directive, shall exceed the estimated total hours set forth in the Work Directive, the Contractor shall notify in writing the Procuring Contracting Officer and Technical Representative for their appropriate action. The Contractor shall furnish a revised statement of total hours to complete such work together with said notice. Said notice must be furnished as early as possible and prior to the incurrence of additional hours.

(End of Clause)

**CONTINUATION SHEET****Reference No. of Document Being Continued**

Page 171 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

## SECTION H - SPECIAL CONTRACT REQUIREMENTS

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
H-1	252.222-7006	RESTRICTIONS ON THE USE OF MANDATORY ARBITRATION AGREEMENTS	DEC/2010
H-2	52.204-4005	REQUIRED USE OF ELECTRONIC CONTRACTING	AUG/2012

(a) All contract awards, modifications and delivery orders issued by Army Contracting Command - Warren (DTA) will be issued electronically. The contractor has the option to receive these actions either via the Worldwide Web (WWW) or Electronic Data Interchange (EDI). Many provisions/clauses that appear "by reference," meaning only clause titles and regulation site are listed; their full texts can be found at the website <http://farsite.hill.af.mil/>

(b) In order to be eligible to receive an award under this solicitation, the successful offeror must be registered with the Department of Defense (DOD) System for Award Management (SAM). The SAM registration process may be done electronically at the World Wide Web (WWW) site: <https://www.sam.gov/portal/public/SAM>. (In order to be registered to use EDI, you must use the long form for registration. Certification information, including information on the EDI 838 TPP, must be furnished to the Contracting Officer within 60 calendar days after contract award to complete networking requirements within the Government.)

(c) Worldwide Web Distribution. The contractor will receive an electronic Notice of the Award, Modification, or Delivery Order via e-mail. If you choose the WWW option, you must download the file from the appropriate Army Contracting Command - Warren webpage:

Warren: [http://contracting.tacom.army.mil/CFDATA/AWARDS/AWARD\\_RPT01.cfm](http://contracting.tacom.army.mil/CFDATA/AWARDS/AWARD_RPT01.cfm)  
Rock Island - JMTC: <https://acquisition.army.mil/asfi/>  
Red River Army Depot: <https://acquisition.army.mil/asfi/>  
Anniston Army Depot: <https://acquisition.army.mil/asfi/>

(d) Electronic Data Interchange. If you choose to receive contract awards, modifications and delivery orders through EDI, they will be delivered electronically via the Federal Acquisition Network (FACNET). Federal Standard Version 3050 of Standard X12 from the American National Standards Institute (ANSI) will be used as the format for these electronic transactions.

(1) You must complete the EDI 838 Trading Partner Profile, and must agree (i) to subcontract with a DoD certified VAN or Value Added Service (VAS) provider, or (ii) to become DoD certified as a Value Added Network (VAN). The EDI 838 Training Partner Profile is contained in the basic SAM registration form and includes portions of the registration form which are titled "Optional".

(2) You must select a VAN from the official DoD approved list. DoD Certified VANs are listed at <http://www.acq.osd.mil/dpap/ebiz/VANs.htm>. If your VAN is later removed from the official list, or if you voluntarily drop your initially selected VAN, then you must switch to a VAN that remains on the official DoD approved list. You must maintain an active account on a DoD approved VAN for the entire duration of the contract, beginning no later than the 60th day after award.

(e) Unless otherwise specified elsewhere in the contract, all data items you are required to provide under this contract must be submitted electronically. Please go to the following webpage for detailed information about submitting your offer electronically: <http://contracting.tacom.army.mil/acqinfo/ebidnotice.htm>

(f) Additional information can be obtained by sending a message to: [usarmy.detroit.acc.mbx.wrn-web-page@mail.mil](mailto:usarmy.detroit.acc.mbx.wrn-web-page@mail.mil) or by calling (586) 282-7059.

## H.1 Options

## H.1.1 General

a. The Government will not exercise any option later than eight years after the contract award date. Deliveries under these options can continue beyond the eight years, but must be completed no later than 24 months after the end of the final option period.

b. All option CLINs may be exercised by the Government in one or more increments.

c. The option period dates are defined as:

1. Option Period One: Date of Contract award through 365 days after contract award
2. Option Period Two: 366 days after contract award through 730 days after contract award
3. Option Period Three: 731 days after contract award through 1095 days after contract award
4. Option Period Four: 1096 days after contract award through 1460 days after contract award

**Name of Offeror or Contractor:**

5. Option Period Five: 1461 days after contract award through 1825 days after contract award
6. Option Period Six: 1826 days after contract award through 2190 days after contract award
7. Option Period Seven: 2191 days after contract award through 2555 days after contract award
8. Option Period Eight: 2556 days after contract award through 2920 days after contract award

d. Top Up Periods and Orders. For subsequent orders placed within 90 calendar days of an initiating award, that range price will be determined by the Contractor based on the cumulative total of all orders placed during the initiating award and during the 90 calendar day Top-Up Period.

An initiating award is any contractual action for vehicles executed during base award and any Option Period, which is not within 90 calendar days of the base award or award of an exercised option. The 90 calendar days after an initiating award shall be referred to as a Top-Up Period. Contractual actions for vehicles which occur during a Top-Up Period shall be referred to as Top-Up Orders. Top-Up Periods are independent of and shall span across Option Periods. Multiple Top-Up Orders may be placed during a 90-day Top-Up Period; however, a Top-Up Order does not extend a Top-Up Period.

All vehicles procured during an initiating award and the subsequent 90-day Top-Up Period will be combined to determine the applicable recurring vehicle price range for the initiating order and any applicable Top-Up Orders. If the additional quantities procured under a Top-Up Order yield a recurring vehicle price range different than that used in the initiating award or other applicable Top-Up Orders, the original order prices will be re-calculated and the Government shall receive a downward adjustment in prices as applicable.

The base or option award is considered the initiating award and the subsequent 90 calendar days comprise a Top-Up Period.

e. The following is a summary of the option requirements available under this contract (all prices are contained Attachment 60, Option Prices):

#### H.1.2 Firm Fixed Price Options

H.1.2.1 Firm Fixed Price Options for Vehicles. By written notification to the Contractor, the Government reserves the right to unilaterally exercise options up for to XX,XXX vehicles regardless of the JLTV model mix (GP, HGC, CCWC, UTL). The options for each period may include any mix and quantities of the vehicle configurations.

H.1.2.1.1 The vehicles shall be priced on a fixed price basis in accordance with Attachment 60, Option Prices. The Government will pay in accordance with the range pricing set forth in Attachment 60, Option Prices, based on the period that the option is exercised and not the period of delivery. For example, if vehicle options are exercised in the Second Option period, the Government will use the Second Option period prices.

#### H.1.2.2 Kits

H.1.2.2.1 JLTV Kits Firm Fixed Price Options for Installed Kits. By written notification to the Contractor, the Government reserves the right to unilaterally exercise options for Installed Kits (including installation on the vehicles) on a fixed price basis in accordance with Attachment 60, Option Prices.

H.1.2.2.2 JLTV Kits Firm Fixed Price Options for Packaged Kits. By written notification to the Contractor, the Government reserves the right to unilaterally exercise options for Packaged Kits on a fixed price basis in accordance with Attachment 60, Option Prices.

H.1.2.3 Firm Fixed Price Options for Trailers. By written notification to the Contractor, the Government reserves the right to unilaterally exercise options for up to XX JLTV Trailers.

H.1.2.3.1 The trailers shall be priced on a fixed price basis in accordance with Attachment 60, Option Prices. The Government will pay in accordance with the range pricing set forth in Attachment 60, Option Prices, based on the period that the option is exercised and not the period of delivery. For example, if vehicle options are exercised in the Second Option period, the Government will use the Second Option period prices

1.2.4. System Engineering/Program Management (SEPM). SEPM support services are priced in accordance with Attachment, 60 Option Prices. Funding applied to this contract will be added at the time of award for the first program year. The first option period will not be funded for System Engineering/Program Management, as the cost includes the support for the same period of performance. The second through eighth program year will be funded with the first vehicle deliveries during those periods. The eighth program year will include all System Engineering/Program Management necessary until contract completion. For option periods two through seven, payments will be made on a monthly basis for a period of 12 months. The eighth option period will be paid on a monthly basis for a period of 24 months.

**Name of Offeror or Contractor:**

If the contract is completed prior to the 24 month period, the contractor shall notify the PCO for final payment on the CLIN.

H.1.2.5. Care and storage. By written notification to the contractor, the Government reserves the right to unilaterally exercise options for Care and Storage on a fixed price basis in accordance with Attachment 60, Option Prices.

H.1.2.6 Test Hardware. By written notification to the contractor, the Government reserves the right to unilaterally exercise options for Test Hardware detailed in C.4.2.1.3.1.1 C.4.2.1.3.1.8 on firm fixed basis in accordance with Attachment 60, Option Prices.

H.1.2.7 Test Support. By written notification to the contractor, the Government reserves the right to unilaterally exercise XXX, XXX man-hours for Test Support on a fixed price basis in accordance with Attachment 60, Option Prices.

#### H 1.3 Cost Plus Fixed Fee Options

H.1.3.1 System Technical Support (STS) Option. The Government reserves the right to exercise options for System Technical Support level of effort in accordance with C.3 at an estimated 300,000 man-hours per option period for a total estimated amount not to exceed of 2,400,000 man-hours under this contract. The Government may unilaterally exercise the option in any increment at any time after contract award to meet mission requirements.

H.1.3.1.2 The Government will award STS options at the price negotiated for the option period which the option is exercised. Other Direct Costs (ODCs) for STS shall be negotiated with each Work Directive.

H.1.3.2 Interim Contractor Support (ICS). The Government reserves the right to exercise up to 645,000 ICS man-hours under this contract for Field Service Representative Support (FSR)

H.1.3.2.1 Government reserves the right to exercise up to 602,000 man-hours for CONUS FSR support and 43,000 man-hours for OCONUS FSR support. The Government may unilaterally exercise the option in any increment at any time after contract award to meet mission requirements.

H.1.3.3 Total Package Fielding (TPF). The Government reserves the right to exercise up to 325,000 TPF man-hours under this contract for FSR support.

H.1.3.3.1 Government reserves the right to exercise up to 305,000 man-hours for CONUS FSR support and 20,000 man-hours for OCONUS FSR support. The Government may unilaterally exercise the option in any increment at any time after contract award to meet mission requirements.

#### H.2 Non-Compliance in Tiers 2 through 5

H.2.1 In addition to all requirements tested in PQT, the Government will conduct a PQT test of Tier 2-5 requirements identified as a non-compliance in the Contractor's proposal to establish demonstrated levels of performance. The PQT test will be based on the RFP version of the PD Requirements (RFP Attachment 0001). The contractor's demonstrated and observed level of performance in PQT testing for the proposed non-compliant Tier 2-5 requirements will become the contract performance level requirement for those requirements and they will be incorporated into the contract as follows. The Government will unilaterally modify the PD (Attachment 0001) after PQT testing to incorporate these contract performance level requirements and the modification shall require the contractor to comply with these contract performance level requirements for those Tier 2-5 requirements identified as non-compliant in the Contractor's proposal at no additional cost to the government. This unilateral contract modification shall be a zero cost modification.

#### H.3 PROGRAM SECURITY AND PUBLIC RELEASE

##### H.3.2 Protection and Disclosure of Information - Public Release

H.3.2.1 Except for JLTV Program information previously approved for public release by the Government under the JLTV Program, the contractor shall not release any JLTV Program information regarding the work performed under this contract outside of (i) the United States Government, (ii) its own facility, (iii) its subcontractors performing JLTV work at any tier; and (iv) Associate Contractors, at any tier, and (v) any other individual or entity that is contractually bound to protect JLTV Program Information from public release without first obtaining approval for Public Release as identified in the DD254 and per this clause.

H.3.3 In performing this contract, contractors shall use computer and communications equipment that meets the requirements identified in the DD254 (if applicable).

H.3.4 Lower Tier Subcontracts. Contractors shall include the provision in Section H.3.2 above, appropriately modified to identify the contractual parties, in all subcontracts for performance of JLTV work, and shall require such inclusion in all subsequent subcontracts, regardless of tier.

**Name of Offeror or Contractor:**

H.3.5 Shipment of Controlled Materials. Unless otherwise directed by the PCO, Contractors shall coordinate and send advance notice of shipment to the consignee transportation officer for all shipments of classified material, protected sensitive, and protected controlled material; explosives and poisons, classes A and B; radioactive materials requiring the use of a III bar label; or when a truckload/carload shipment of supplies weighing 20,000 pounds or more, or a shipment of less weight that occupies the full visible capacity of a railway car or motor vehicle, is given to any carrier for transportation to a domestic destination (other than a port for export).

**H.4 ADDITIONAL PROGRAM PROTECTION REQUIREMENTS**

The following incidents and situations shall be reported through the Facility Security Officer to the nearest U.S. Army Counterintelligence (CI) office and the Defense Security Service as required by DoD 5220.22-M, National Industrial Security Program Operating Manual. If the U.S. Army CI office is not readily available, the FSO or representative security individual will report the information to the program Government Security Office, which will ensure that reports are relayed, within 24 hours, IAW AR 381-12, Subversion and Espionage Directed Against the U.S. Army (SAEDA), to U.S. Army CI:

- a. Attempts by unauthorized persons to obtain classified or unclassified information concerning U.S. Army facilities, activities, personnel, technology, or material through questioning, elicitation, trickery, bribery, threats, coercion, blackmail, photography, observation, collection of documents or material, correspondence, or computer hacking.
- b. Known, suspected, or contemplated acts of espionage.
- c. Contacts with persons whom they know or suspect to be members of or associated with foreign intelligence, security, or terrorist organizations. These do not include contacts as a part of official duties.
- d. Contacts with any official or other citizen of a foreign country when that person
  - (1) Exhibits excessive knowledge or undue interest about the employee or his duties
  - (2) Exhibits undue interest in U.S. technology; research, development, testing, and evaluation efforts; weapons systems; or scientific information
  - (3) Attempts to obtain classified or unclassified information
  - (4) Attempts to place employee under obligation through special treatment, favors, gifts, money, or other means
  - (5) Attempts to establish any type of business relationship that is outside the range of normal official duties
- e. All incidents in which employees or their family members traveling to or through foreign countries are
  - (1) Subjected to questions regarding their duties
  - (2) Requested to provide military information
  - (3) Threatened, coerced, or pressured in any way to cooperate with a foreign intelligence service or foreign government official
  - (4) Offered assistance in gaining access to people or locations not routinely afforded Americans.
  - (5) Contacted by foreign government law enforcement, security, or intelligence officials
- f. Information concerning any international or domestic terrorist activity or sabotage that poses an actual or potential threat to Army or other U.S. facilities, activities, personnel, or resources.
- g. Any known or suspected illegal diversion or attempted illegal diversion of U.S. technology to a foreign country.
- h. Active attempts to encourage employees to violate laws, disobey lawful orders or regulations, or disrupt military activities (subversion).
- i. Known or suspected acts of treason.
- j. Participation in activities advocating or teaching the overthrow of the United States by force or violence or seeking to alter the form of Government by unconstitutional means (sedition).
- k. Known, suspected, or attempted intrusions into classified or unclassified information systems by unauthorized users or by authorized users attempting to gain unauthorized access. (See CUI Attachment for further definitions and instructions.)
- l. Any situation involving coercion, influence, or pressure brought to bear on employees through family members residing in foreign countries.

**H.5 Assertions and Restrictions**

**Name of Offeror or Contractor:**

H.5.1 DFARS 252.227-7017 is hereby incorporated into the contract by reference

H.5.2 In accordance with 252.227-7017 offerors shall make and submit as part of the offeror's proposal a signed assertions (as to the restrictions on data rights) otherwise, the offeror may be ineligible for award. The offeror proposed assertions and restrictions will become an attachment to the contract upon contract award.

\*\*\* END OF NARRATIVE H0001 \*\*\*

DRAFT

## CONTINUATION SHEET

## Reference No. of Document Being Continued

Page 176 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

## Name of Offeror or Contractor:

## SECTION I - CONTRACT CLAUSES

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
I-1	52.202-1	DEFINITIONS	NOV/2013
I-2	52.203-3	GRATUITIES	APR/1984
I-3	52.203-5	COVENANT AGAINST CONTINGENT FEES	MAY/2014
I-4	52.203-6	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT	SEP/2006
I-5	52.203-7	ANTI-KICKBACK PROCEDURES	MAY/2014
I-6	52.203-8	CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY	MAY/2014
I-7	52.203-10	PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY	MAY/2014
I-8	52.203-12	LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS	OCT/2010
I-9	52.204-2	SECURITY REQUIREMENTS	AUG/1996
I-10	52.204-4	PRINTED OR COPIED DOUBLE-SIDED ON POSTCONSUMER FIBER CONTENT PAPER	MAY/2011
I-11	52.204-9	PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL	JAN/2011
I-12	52.204-10	REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS	JUL/2013
I-13	52.204-13	SYSTEM FOR AWARD MANAGEMENT MAINTENANCE	JUL/2013
I-14	52.209-6	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT	AUG/2013
I-15	52.209-9	UPDATES OF PUBLICLY AVAILABLE INFORMATION REGARDING RESPONSIBILITY MATTERS	JUL/2013
I-16	52.210-1	MARKET RESEARCH	APR/2011
I-17	52.211-5	MATERIAL REQUIREMENTS	AUG/2000
I-18	52.211-15	DEFENSE PRIORITY AND ALLOCATION REQUIREMENTS	APR/2008
I-19	52.215-2	AUDIT AND RECORDS--NEGOTIATIONS	OCT/2010
I-20	52.215-8	ORDER OF PRECEDENCE--UNIFORM CONTRACT FORMAT	OCT/1997
I-21	52.215-11	PRICE REDUCTION FOR DEFECTIVE CERTIFIED COST OR PRICING DATA--MODIFICATIONS	AUG/2011
I-22	52.215-13	SUBCONTRACTOR CERTIFIED COST OR PRICING DATA--MODIFICATIONS	OCT/2010
I-23	52.215-14	INTEGRITY OF UNIT PRICES (OCT 2010) -- ALTERNATE I (OCT 1997)	OCT/1997
I-24	52.215-21	REQUIREMENTS FOR CERTIFIED COST OR PRICING DATA AND DATA OTHER THAN CERTIFIED COST OR PRICING DATA --MODIFICATIONS	OCT/2010
I-25	52.215-23	LIMITATIONS ON PASS-THROUGH CHARGES	OCT/2009
I-26	52.216-8	FIXED FEE	JUN/2011
I-27	52.219-8	UTILIZATION OF SMALL BUSINESS CONCERNS	MAY/2014
I-28	52.219-16	LIQUIDATED DAMAGES--SUBCONTRACTING PLAN	JAN/1999
I-29	52.222-1	NOTICE TO THE GOVERNMENT OF LABOR DISPUTES	FEB/1997
I-30	52.222-19	CHILD LABOR--COOPERATION WITH AUTHORITIES AND REMEDIES	JAN/2014
I-31	52.222-21	PROHIBITION OF SEGREGATED FACILITIES	FEB/1999
I-32	52.222-26	EQUAL OPPORTUNITY	MAR/2007
I-33	52.222-35	EQUAL OPPORTUNITY FOR VETERANS	SEP/2010
I-34	52.222-36	AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES	OCT/2010
I-35	52.222-37	EMPLOYMENT REPORTS ON VETERANS	SEP/2010
I-36	52.222-40	NOTIFICATION OF EMPLOYEE RIGHTS UNDER THE NATIONAL LABOR RELATIONS ACT	DEC/2010
I-37	52.222-41	SERVICE CONTRACT LABOR STANDARDS	MAY/2014
I-38	52.222-43	FAIR LABOR STANDARDS ACT AND SERVICE CONTRACT LABOR STANDARDS--PRICE ADJUSTMENT (MULTIPLE YEAR AND OPTION CONTRACTS)	MAY/2014
I-39	52.222-44	FAIR LABOR STANDARDS ACT AND SERVICE CONTRACT LABOR STANDARDS--PRICE ADJUSTMENT	MAY/2014
I-40	52.222-50	COMBATING TRAFFICKING IN PERSONS	FEB/2009
I-41	52.222-54	EMPLOYMENT ELIGIBILITY VERIFICATION	AUG/2013
I-42	52.223-6	DRUG-FREE WORKPLACE	MAY/2001
I-43	52.223-10	WASTE REDUCTION PROGRAM	MAY/2011
I-44	52.223-18	ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE DRIVING	AUG/2011
I-45	52.225-13	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES	JUN/2008
I-46	52.227-1	AUTHORIZATION AND CONSENT	DEC/2007
I-47	52.227-2	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT	DEC/2007
I-48	52.227-10	FILING OF PATENT APPLICATIONS--CLASSIFIED SUBJECT MATTER	DEC/2007
I-49	52.228-7	INSURANCE--LIABILITY TO THIRD PERSONS	MAR/1996
I-50	52.229-3	FEDERAL, STATE, AND LOCAL TAXES	FEB/2013
I-51	52.230-6	ADMINISTRATION OF COST ACCOUNTING STANDARDS	JUN/2010
I-52	52.232-1	PAYMENTS	APR/1984
I-53	52.232-2	PAYMENTS UNDER FIXED-PRICE RESEARCH AND DEVELOPMENT CONTRACTS	APR/1984
I-54	52.232-8	DISCOUNTS FOR PROMPT PAYMENT	FEB/2002

## CONTINUATION SHEET

## Reference No. of Document Being Continued

Page 177 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

Name of Offeror or Contractor:

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
I-55	52.232-11	EXTRAS	APR/1984
I-56	52.232-17	INTEREST	MAY/2014
I-57	52.232-23	ASSIGNMENT OF CLAIMS (MAY 2014) -- ALTERNATE I (APR 1984)	APR/1984
I-58	52.232-25	PROMPT PAYMENT	JUL/2013
I-59	52.232-33	PAYMENT BY ELECTRONIC FUNDS TRANSFER--SYSTEM FOR AWARD MANAGEMENT	JUL/2013
I-60	52.232-39	UNENFORCEABILITY OF UNAUTHORIZED OBLIGATIONS	JUN/2013
I-61	52.232-40	PROVIDING ACCELERATED PAYMENTS TO SMALL BUSINESS SUBCONTRACTORS	DEC/2013
I-62	52.233-1	DISPUTES (MAY 2014) -- ALTERNATE I (DEC 1991)	DEC/1991
I-63	52.233-3	PROTEST AFTER AWARD (AUG 1996) -- ALTERNATE I (JUN 1985)	JUN/1985
I-64	52.233-4	APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM	OCT/2004
I-65	52.237-3	CONTINUITY OF SERVICES	JAN/1991
I-66	52.239-1	PRIVACY OR SECURITY SAFEGUARDS	AUG/1996
I-67	52.242-1	NOTICE OF INTENT TO DISALLOW COSTS	APR/1984
I-68	52.242-2	PRODUCTION PROGRESS REPORTS	APR/1991
I-69	52.242-3	PENALTIES FOR UNALLOWABLE COSTS	MAY/2014
I-70	52.242-4	CERTIFICATION OF FINAL INDIRECT COSTS	JAN/1997
I-71	52.242-13	BANKRUPTCY	JUL/1995
I-72	52.243-1	CHANGES--FIXED PRICE	AUG/1987
I-73	52.243-1	CHANGES--FIXED PRICE (AUG 1987) -- ALTERNATE V (APR 1984)	APR/1984
I-74	52.243-2	CHANGES - COST REIMBURSEMENT (AUG 1987) -- ALTERNATE II (APR 1984)	APR/1984
I-75	52.243-6	CHANGE ORDER ACCOUNTING	APR/1984
I-76	52.244-5	COMPETITION IN SUBCONTRACTING	DEC/1996
I-77	52.244-6	SUBCONTRACTS FOR COMMERCIAL ITEMS	MAY/2014
I-78	52.245-1	GOVERNMENT PROPERTY	APR/2012
I-79	52.245-9	USE AND CHARGES	APR/2012
I-80	52.246-24	LIMITATION OF LIABILITY--HIGH-VALUE ITEMS	FEB/1997
I-81	52.247-63	PREFERENCE FOR U.S.-FLAG AIR CARRIERS	JUN/2003
I-82	52.247-68	REPORT OF SHIPMENT (REPSHIP)	FEB/2006
I-83	52.248-1	VALUE ENGINEERING	OCT/2010
I-84	52.249-2	TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE)	APR/2012
I-85	52.249-6	TERMINATION (COST REIMBURSEMENT)	MAY/2004
I-86	52.249-8	DEFAULT (FIXED-PRICE SUPPLY AND SERVICE)	APR/1984
I-87	52.249-9	DEFAULT (FIXED-PRICE RESEARCH AND DEVELOPMENT)	APR/1984
I-88	52.249-14	EXCUSABLE DELAYS	APR/1984
I-89	52.253-1	COMPUTER GENERATED FORMS	JAN/1991
I-90	252.201-7000	CONTRACTING OFFICER'S REPRESENTATIVE	DEC/1991
I-91	252.203-7000	REQUIREMENTS RELATING TO COMPENSATION OF FORMER DOD OFFICIALS	SEP/2011
I-92	252.203-7001	PROHIBITION ON PERSONS CONVICTED OF FRAUD OR OTHER DEFENSE-CONTRACT-RELATED FELONIES	DEC/2008
I-93	252.203-7002	REQUIREMENT TO INFORM EMPLOYEES OF WHISTLEBLOWER RIGHTS	SEP/2013
I-94	252.203-7003	AGENCY OFFICE OF THE INSPECTOR GENERAL	DEC/2012
I-95	252.204-7000	DISCLOSURE OF INFORMATION	AUG/2013
I-96	252.204-7002	PAYMENT FOR SUBLINE ITEMS NOT SEPARATELY PRICED	DEC/1991
I-97	252.204-7003	CONTROL OF GOVERNMENT PERSONNEL WORK PRODUCT	APR/1992
I-98	252.204-7004	ALTERNATE A, SYSTEM FOR AWARD MANAGEMENT	FEB/2014
I-99	252.204-7005	ORAL ATTESTATION OF SECURITY RESPONSIBILITIES	NOV/2001
I-100	252.204-7006	BILLING INSTRUCTIONS	OCT/2005
I-101	252.204-7012	SAFEGUARDING OF UNCLASSIFIED CONTROLLED TECHNICAL INFORMATION	NOV/2013
I-102	252.204-7015	DISCLOSURE OF INFORMATION TO LITIGATION SUPPORT CONTRACTORS	FEB/2014
I-103	252.205-7000	PROVISION OF INFORMATION TO COOPERATIVE AGREEMENT HOLDERS	DEC/1991
I-104	252.209-7004	SUBCONTRACTING WITH FIRMS THAT ARE OWNED OR CONTROLLED BY THE GOVERNMENT OF A TERRORIST COUNTRY	MAR/2014
I-105	252.209-7009	ORGANIZATIONAL CONFLICT OF INTEREST -- MAJOR DEFENSE ACQUISITION PROGRAM	DEC/2012
I-106	252.215-7000	PRICING ADJUSTMENTS	DEC/2012
I-107	252.223-7004	DRUG-FREE WORK FORCE	SEP/1988
I-108	252.223-7006	PROHIBITION ON STORAGE AND DISPOSAL OF TOXIC AND HAZARDOUS MATERIALS	APR/2012
I-109	252.223-7008	PROHIBITION OF HEXAVALENT CHROMIUM	JUN/2013
I-110	252.225-7002	QUALIFYING COUNTRY SOURCES AS SUBCONTRACTORS	DEC/2012
I-111	252.225-7004	REPORT OF INTENDED PERFORMANCE OUTSIDE THE UNITED STATES AND CANADA-- SUBMISSION AFTER AWARD	OCT/2010
I-112	252.225-7006	QUARTERLY REPORTING OF ACTUAL CONTRACT PERFORMANCE OUTSIDE THE UNITED STATES	OCT/2010

## CONTINUATION SHEET

## Reference No. of Document Being Continued

Page 178 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

## Name of Offeror or Contractor:

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
I-113	252.225-7009	RESTRICTION ON ACQUISITION OF CERTAIN ARTICLES CONTAINING SPECIALTY METALS	JUN/2013
I-114	252.225-7012	PREFERENCE FOR CERTAIN DOMESTIC COMMODITIES	FEB/2013
I-115	252.225-7013	DUTY-FREE ENTRY	OCT/2013
I-116	252.225-7015	RESTRICTION ON ACQUISITION OF HAND OR MEASURING TOOLS	JUN/2005
I-117	252.225-7016	RESTRICTIONS ON ACQUISITION OF BALL AND ROLLER BEARINGS	JUN/2011
I-118	252.225-7021	TRADE AGREEMENTS	OCT/2013
I-119	252.225-7028	EXCLUSIONARY POLICIES AND PRACTICES OF FOREIGN GOVERNMENTS	APR/2003
I-120	252.225-7030	RESTRICTION ON ACQUISITION OF CARBON, ALLOY, AND ARMOR STEEL PLATE	DEC/2006
I-121	252.225-7033	WAIVER OF UNITED KINGDOM LEVIES	APR/2003
I-122	252.225-7048	EXPORT-CONTROLLED ITEMS	JUN/2013
I-123	252.226-7001	UTILIZATION OF INDIAN ORGANIZATIONS, INDIAN-OWNED ECONOMIC ENTERPRISES, AND NATIVE HAWAIIAN SMALL BUSINESS CONCERNS	SEP/2004
I-124	252.227-7013	RIGHTS IN TECHNICAL DATA--NONCOMMERCIAL ITEMS	FEB/2014
I-125	252.227-7014	RIGHTS IN NONCOMMERCIAL COMPUTER SOFTWARE AND NONCOMMERCIAL COMPUTER SOFTWARE DOCUMENTATION	FEB/2014
I-126	252.227-7015	TECHNICAL DATA--COMMERCIAL ITEMS	FEB/2014
I-127	252.227-7016	RIGHTS IN BID OR PROPOSAL INFORMATION	JAN/2011
I-128	252.227-7019	VALIDATION OF ASSERTED RESTRICTIONS--COMPUTER SOFTWARE	SEP/2011
I-129	252.227-7025	LIMITATIONS ON THE USE OR DISCLOSURE OF GOVERNMENT-FURNISHED INFORMATION MARKED WITH RESTRICTIVE LEGENDS	MAY/2013
I-130	252.227-7027	DEFERRED ORDERING OF TECHNICAL DATA OR COMPUTER SOFTWARE	APR/1988
I-131	252.227-7030	TECHNICAL DATA--WITHHOLDING OF PAYMENT	MAR/2000
I-132	252.227-7037	VALIDATION OF RESTRICTIVE MARKINGS ON TECHNICAL DATA	JUN/2013
I-133	252.227-7038	PATENT RIGHTS -- OWNERSHIP BY THE CONTRACTOR (LARGE BUSINESS)	JUN/2012
I-134	252.231-7000	SUPPLEMENTAL COST PRINCIPLES	DEC/1991
I-135	252.232-7003	ELECTRONIC SUBMISSION OF PAYMENT REQUESTS AND RECEIVING REPORTS	JUN/2012
I-136	252.232-7010	LEVIES ON CONTRACT PAYMENTS	DEC/2006
I-137	252.234-7004	COST AND SOFTWARE DATA REPORTING SYSTEM	NOV/2010
I-138	252.235-7003	FREQUENCY AUTHORIZATION--BASIC	MAR/2014
I-139	252.235-7011	FINAL SCIENTIFIC OR TECHNICAL REPORT	NOV/2004
I-140	252.237-7010	PROHIBITION ON INTERROGATION OF DETAINEES BY CONTRACTOR PERSONNEL	JUN/2013
I-141	252.239-7001	INFORMATION ASSURANCE CONTRACTOR TRAINING AND CERTIFICATION	JAN/2008
I-142	252.239-7018	SUPPLY CHAIN RISK	NOV/2013
I-143	252.242-7004	MATERIAL MANAGEMENT AND ACCOUNTING SYSTEM	MAY/2011
I-144	252.242-7005	CONTRACTOR BUSINESS SYSTEMS	FEB/2012
I-145	252.242-7006	ACCOUNTING SYSTEM ADMINISTRATION	FEB/2012
I-146	252.243-7001	PRICING OF CONTRACT MODIFICATIONS	DEC/1991
I-147	252.243-7002	REQUESTS FOR EQUITABLE ADJUSTMENT	DEC/2012
I-148	252.244-7000	SUBCONTRACTS FOR COMMERCIAL ITEMS	JUN/2013
I-149	252.244-7001	CONTRACTOR PURCHASING SYSTEM ADMINISTRATION--BASIC	MAY/2014
I-150	252.245-7001	TAGGING, LABELING, AND MARKING OF GOVERNMENT-FURNISHED PROPERTY	APR/2012
I-151	252.245-7002	REPORTING LOSS OF GOVERNMENT PROPERTY	APR/2012
I-152	252.245-7003	CONTRACTOR PROPERTY MANAGEMENT SYSTEM ADMINISTRATION	APR/2012
I-153	252.245-7004	REPORTING, REUTILIZATION, AND DISPOSAL	MAY/2013
I-154	252.246-7000	MATERIAL INSPECTION AND RECEIVING REPORT	MAR/2008
I-155	252.246-7001	WARRANTY OF DATA--BASIC	MAR/2014
I-156	252.246-7003	NOTIFICATION OF POTENTIAL SAFETY ISSUES	JUN/2013
I-157	252.247-7023	TRANSPORTATION OF SUPPLIES BY SEA--BASIC	APR/2014
I-158	252.247-7028	APPLICATION FOR U.S. GOVERNMENT SHIPPING DOCUMENTATION/INSTRUCTIONS	JUN/2012
I-159	252.249-7002	NOTIFICATION OF ANTICIPATED CONTRACT TERMINATION OR REDUCTION	OCT/2010
I-160	52.209-3	FIRST ARTICLE APPROVAL -- CONTRACTOR TESTING (SEP 1989) -- ALTERNATE I (JAN 1997) AND ALTERNATE II (SEP 1989)	SEP/1989

(a) The Contractor shall test a minimum of two component units for each item specified in E.2.1.2 of Lot/Item N/A as specified in this contract. At least 20 calendar days before the beginning of first article tests, the Contractor shall notify the Contracting Officer, in writing, of the time and location of the testing so that the Government may witness the tests.

(b) The Contractor shall submit the first article test report prior to the due date specified in Section E.2.1.2.3, CDRL E005, to the Government as specified in Section E.2.1.2.3, CDRL E005 marked First Article Test Report: Contract No. \_\_\_\_\_, Lot/Item No. \_\_\_\_\_. Within 30 calendar days after the Government receives the test report, the Contracting Officer shall notify the Contractor, in writing, of the conditional approval, approval, or disapproval of the first article. The notice of conditional approval or approval

**Name of Offeror or Contractor:**

shall not relieve the Contractor from complying with all requirements of the specifications and all other terms and conditions of this contract. A notice of conditional approval shall state any further action required of the Contractor. A notice of disapproval shall cite reasons for the disapproval.

(c) If the first article is disapproved, the Contractor, upon Government request, shall repeat any or all first article tests. After each request for additional tests, the Contractor shall make any necessary changes, modifications, or repairs to the first article or select another first article for testing. All costs related to these tests are to be borne by the Contractor, including any and all costs for additional tests following a disapproval. The Contractor shall then conduct the tests and deliver another report to the Government under the terms and conditions and within the time specified by the Government. The Government shall take action on this report within the time specified in paragraph (b) above. The Government reserves the right to require an equitable adjustment of the contract price for any extension of the delivery schedule, or for any additional costs to the Government related to these tests.

(d) If the Contractor fails to deliver any first article report on time, or the Contracting Officer disapproves any first article, the Contractor shall be deemed to have failed to make delivery within the meaning of the Default clause of this contract.

(e) Unless otherwise provided in the contract, and if the approved first article is not consumed or destroyed in testing, the Contractor may deliver the approved first article as part of the contract quantity if it meets all contract requirements for acceptance.

(f) If the Government does not act within the time specified in paragraph (b) or (c) above, the Contracting Officer shall, upon timely written request from the Contractor, equitably adjust under the changes clause of this contract the delivery or performance dates and/or the contract price, and any other contractual term affected by the delay.

(g) Before first article approval, the Contracting Officer may, by written authorization, authorize the Contractor to acquire specific materials or components or to commence production to the extent essential to meet the delivery schedules. Until first article approval is granted, only costs for the first article and costs incurred under this authorization are allocable to this contract for

(1) progress payments, or

(2) termination settlements if the contract is terminated for the convenience of the Government. If first article tests reveal deviations from contract requirements, the Contractor shall, at the location designated by the Government, make the required changes or replace all items produced under this contract at no change in the contract price.

(h) The Government may waive the requirement for first article approval test where supplies identical or similar to those called for in the schedule have been previously furnished by the offeror/contractor and have been accepted by the Government. The offeror/contractor may request a waiver.

(i) The Contractor shall produce both the first article and the production quantity at the same facility.

(End of Clause)

I-161            52.209-4            FIRST ARTICLE APPROVAL -- GOVERNMENT TESTING (SEP 1989) -- ALTERNATE            SEP/1989  
I (JAN 1997) AND ALTERNATE II (SEP 1989)

(a) The Contractor shall deliver 117 unit(s) of Lot/Item CLIN 0001 (32 each); CLIN 0002 (27 each); CLIN 0003 (21 each); and CLIN 0004 (31 each) within 10 months from the date of this contract award to the Government at Aberdeen Proving Grounds, 2 Halls Cross Roads, Aberdeen, MD 21001 for first article tests. The shipping documentation shall contain this contract number and the Lot/Item identification. The characteristics that the first article must meet and the testing requirements are specified elsewhere in this contract.

(b) Within 21 months after the Government receives the first article, the Contracting Officer shall notify the Contractor, in writing, of the conditional approval, approval, or disapproval of the first article. The notice of conditional approval or approval shall not relieve the Contractor from complying with all requirements of the specifications and all other terms and conditions of this contract. A notice of conditional approval shall state any further action required of the Contractor. A notice of disapproval shall cite reasons for the disapproval.

(c) If the first article is disapproved, the Contractor, upon Government request, shall submit an additional first article for testing. After each request, the Contractor shall make any necessary changes, modifications, or repairs to the first article or select another first article for testing. All costs related to these tests are to be borne by the Contractor, including any and all costs for additional tests following a disapproval. The Contractor shall furnish any additional first article to the Government under the terms and conditions and within the time specified by the Government. The Government shall act on this first article within the time limit specified in paragraph (b) of this clause. The Government reserves the right to require an equitable adjustment of the contract price for any extension of the delivery schedule or for any additional costs to the Government related to these tests.

**CONTINUATION SHEET****Reference No. of Document Being Continued**

Page 180 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

(d) If the Contractor fails to deliver any first article on time, or the Contracting Officer disapproves any first article, the Contractor shall be deemed to have failed to make delivery within the meaning of the Default clause of this contract.

(e) Unless otherwise provided in the contract, the Contractor --

(1) May deliver the approved first article as a part of the contract quantity, provided it meets all contract requirements for acceptance and was not consumed or destroyed in testing; and

(2) Shall remove and dispose of any first article from the Government test facility at the Contractors expense.

(f) If the Government does not act within the time specified in paragraph (b) or (c) of this clause, the Contracting Officer shall, upon timely written request from the Contractor, equitably adjust under the Changes clause of this contract the delivery or performance dates and/or the contract price, and any other contractual term affected by the delay.

(g) The Contractor is responsible for providing operating and maintenance instructions, spare parts support, and repair of the first article during any first article test.

(h) Before first article approval, the Contracting Officer may, by written authorization, authorize the Contractor to acquire specific materials or components or to commence production to the extent essential to meet the delivery schedules. Until first article approval is granted, only costs for the first article and costs incurred under this authorization are allocable to this contract for

(1) progress payments, or

(2) termination settlements if the contract is terminated for the convenience of the Government.

If first article tests reveal deviations from contract requirements, the Contractor shall, at the location designated by the Government, make the required changes or replace all items produced under this contract at no change in the contract price.

(i) The Government may waive the requirement for first article approval test where supplies identical or similar to those called for in the schedule have been previously furnished by the Offeror/Contractor and have been accepted by the Government. The Offeror/Contractor may request a waiver.

(j) The Contractor shall produce both the first article and the production quantity at the same facility.

(End of Clause)

I-162

52.216-7

ALLOWABLE COST AND PAYMENT

JUN/2013

(a) Invoicing.

(1) The Government will make payments to the Contractor when requested as work progresses, but (except for small business concerns) not more often than once every 2 weeks, in amounts determined to be allowable by the Contracting Officer in accordance with Federal Acquisition Regulation (FAR) Subpart 31.2 in effect on the date of this contract and the terms of this contract. The Contractor may submit to an authorized representative of the Contracting Officer, in such form and reasonable detail as the representative may require, an invoice or voucher supported by a statement of the claimed allowable cost for performing this contract.

(2) Contract financing payments are not subject to the interest penalty provisions of the Prompt Payment Act. Interim payments made prior to the final payment under the contract are contract financing payments, except interim payments if this contract contains Alternate I to the clause at 52.232-25.

(3) The designated payment office will make interim payments for contract financing on the 30th day after the designated billing office receives a proper payment request. In the event that the Government requires an audit or other review of a specific payment request to ensure compliance with the terms and conditions of the contract, the designated payment office is not compelled to make payment by the specified due date.

(b) Reimbursing costs.

(1) For the purpose of reimbursing allowable costs (except as provided in subparagraph (b)(2) of this clause, with respect to pension, deferred profit sharing, and employee stock ownership plan contributions), the term costs includes only --

(i) Those recorded costs that, at the time of the request for reimbursement, the Contractor has paid by cash, check, or other form of actual payment for items or services purchased directly for the contract;

(ii) When the Contractor is not delinquent in paying costs of contract performance in the ordinary course of business, costs

**Name of Offeror or Contractor:**

incurred, but not necessarily paid, for --

(A) Supplies and services purchased directly for the contract and associated financing payments to subcontractors, provided payments determined due will be made

(1) In accordance with the terms and conditions of a subcontract or invoice; and

(2) Ordinarily within 30 days of the submission of the Contractors payment request to the Government;

(B) Materials issued from the Contractors inventory and placed in the production process for use on the contract;

(C) Direct labor;

(D) Direct travel;

(E) Other direct in-house costs; and

(F) Properly allocable and allowable indirect costs, as shown in the records maintained by the Contractor for purposes of obtaining reimbursement under Government contracts; and

(iii) The amount of financing payments that have been paid by cash, check or other form of payment to subcontractors.

(2) Accrued costs of Contractor contributions under employee pension plans shall be excluded until actually paid unless

(i) The Contractors practice is to make contributions to the retirement fund quarterly or more frequently; and

(ii) The contribution does not remain unpaid 30 days after the end of the applicable quarter or shorter payment period (any contribution remaining unpaid shall be excluded from the Contractors indirect costs for payment purposes).

(3) Notwithstanding the audit and adjustment of invoices or vouchers under paragraph (g) of this clause, allowable indirect costs under this contract shall be obtained by applying indirect cost rates established in accordance with paragraph (d) of this clause.

(4) Any statements in specifications or other documents incorporated in this contract by reference designating performance of services or furnishing of materials at the Contractors expense or at no cost to the Government shall be disregarded for purposes of cost-reimbursement under this clause.

(c) Small business concerns. A small business concern may receive more frequent payments than every 2 weeks.

(d) Final indirect cost rates.

(1) Final annual indirect cost rates and the appropriate bases shall be established in accordance with Subpart 42.7 of the Federal Acquisition Regulation (FAR) in effect for the period covered by the indirect cost rate proposal.

(2)(i) The Contractor shall submit an adequate final indirect cost rate proposal to the Contracting Officer (or cognizant Federal agency official) and auditor within the 6-month period following the expiration of each of its fiscal years. Reasonable extensions, for exceptional circumstances only, may be requested in writing by the Contractor and granted in writing by the Contracting Officer. The Contractor shall support its proposal with adequate supporting data.

(ii) The proposed rates shall be based on the Contractors actual cost experience for that period. The appropriate Government representative and the Contractor shall establish the final indirect cost rates as promptly as practical after receipt of the Contractors proposal.

(iii) An adequate indirect cost rate proposal shall include the following data unless otherwise specified by the cognizant Federal agency official:

(A) Summary of all claimed indirect expense rates, including pool, base, and calculated indirect rate.

(B) General and Administrative expenses (final indirect cost pool). Schedule of claimed expenses by element of cost as identified in accounting records (Chart of Accounts).

(C) Overhead expenses (final indirect cost pool). Schedule of claimed expenses by element of cost as identified in accounting records (Chart of Accounts) for each final indirect cost pool.

(D) Occupancy expenses (intermediate indirect cost pool). Schedule of claimed expenses by element of cost as identified in accounting records (Chart of Accounts) and expense reallocation to final indirect cost pools.

**Name of Offeror or Contractor:**

- (E) Claimed allocation bases, by element of cost, used to distribute indirect costs.
- (F) Facilities capital cost of money factors computation.
- (G) Reconciliation of books of account (i.e., General Ledger) and claimed direct costs by major cost element.
- (H) Schedule of direct costs by contract and subcontract and indirect expense applied at claimed rates, as well as a subsidiary schedule of Government participation percentages in each of the allocation base amounts.
- (I) Schedule of cumulative direct and indirect costs claimed and billed by contract and subcontract.
- (J) Subcontract information. Listing of subcontracts awarded to companies for which the contractor is the prime or upper-tier contractor (include prime and subcontract numbers; subcontract value and award type; amount claimed during the fiscal year; and the subcontractor name, address, and point of contact information).
- (K) Summary of each time-and-materials and labor-hour contract information, including labor categories, labor rates, hours, and amounts; direct materials; other direct costs; and, indirect expense applied at claimed rates.
- (L) Reconciliation of total payroll per IRS form 941 to total labor costs distribution.
- (M) Listing of decisions/agreements/approvals and description of accounting/organizational changes.
- (N) Certificate of final indirect costs (see 52.242-4, Certification of Final Indirect Costs).
- (O) Contract closing information for contracts physically completed in this fiscal year (include contract number, period of performance, contract ceiling amounts, contract fee computations, level of effort, and indicate if the contract is ready to close).
- (iv) The following supplemental information is not required to determine if a proposal is adequate, but may be required during the audit process:
- (A) Comparative analysis of indirect expense pools detailed by account to prior fiscal year and budgetary data.
- (B) General Organizational information and limitation on allowability of compensation for certain contractor personnel. See 31.205-6(p). Additional salary reference information is available at [://www.whitehouse.gov/omb/procurement\\_index\\_exec\\_comp/](http://www.whitehouse.gov/omb/procurement_index_exec_comp/).
- (C) Identification of prime contracts under which the contractor performs as a subcontractor.
- (D) Description of accounting system (excludes contractors required to submit a CAS Disclosure Statement or contractors where the description of the accounting system has not changed from the previous year's submission).
- (E) Procedures for identifying and excluding unallowable costs from the costs claimed and billed (excludes contractors where the procedures have not changed from the previous year's submission).
- (F) Certified financial statements and other financial data (e.g., trial balance, compilation, review, etc.).
- (G) Management letter from outside CPAs concerning any internal control weaknesses.
- (H) Actions that have been and/or will be implemented to correct the weaknesses described in the management letter from subparagraph (G) of this section.
- (I) List of all internal audit reports issued since the last disclosure of internal audit reports to the Government.
- (J) Annual internal audit plan of scheduled audits to be performed in the fiscal year when the final indirect cost rate submission is made.
- (K) Federal and State income tax returns.
- (L) Securities and Exchange Commission 10-K annual report.
- (M) Minutes from board of directors meetings.
- (N) Listing of delay claims and termination claims submitted which contain costs relating to the subject fiscal year.

**Name of Offeror or Contractor:**

(O) Contract briefings, which generally include a synopsis of all pertinent contract provisions, such as: Contract type, contract amount, product or service(s) to be provided, contract performance period, rate ceilings, advance approval requirements, pre-contract cost allowability limitations, and billing limitations.

(v) The Contractor shall update the billings on all contracts to reflect the final settled rates and update the schedule of cumulative direct and indirect costs claimed and billed, as required in paragraph (d)(2)(iii)(I) of this section, within 60 days after settlement of final indirect cost rates.

(3) The Contractor and the appropriate Government representative shall execute a written understanding setting forth the final indirect cost rates. The understanding shall specify

- (i) the agreed-upon final annual indirect cost rates,
- (ii) the bases to which the rates apply,
- (iii) the periods for which the rates apply,
- (iv) any specific indirect cost items treated as direct costs in the settlement, and
- (v) the affected contract and/or subcontract, identifying any with advance agreements or special terms and the applicable rates.

The understanding shall not change any monetary ceiling, contract obligation, or specific cost allowance or disallowance provided for in this contract. The understanding is incorporated into this contract upon execution.

(4) Failure by the parties to agree on a final annual indirect cost rate shall be a dispute within the meaning of the Disputes clause.

(5) Within 120 days (or longer period if approved in writing by the Contracting Officer) after settlement of the final annual indirect cost rates for all years of a physically complete contract, Contractor shall submit a completion invoice or voucher to reflect the settled amounts and rates. The completion invoice or voucher shall include settled subcontract amounts and rates. The prime contractor is responsible for settling subcontractor amounts and rates included in the completion invoice or voucher and providing status of subcontractor audits to the contracting officer upon request.

(6)(i) If the Contractor fails to submit a completion invoice or voucher within the time specified in paragraph (d)(5) of this clause, the Contracting Officer may--

- (A) Determine the amounts due to the Contractor under the contract; and
- (B) Record this determination in a unilateral modification to the contract.

(ii) This determination constitutes the final decision of the Contracting Officer in accordance with the Disputes clause.

(e) Billing rates. Until final annual indirect cost rates are established for any period, the Government shall reimburse the Contractor at billing rates established by the Contracting Officer or by an authorized representative (the cognizant auditor), subject to adjustment when the final rates are established. These billing rates --

(1) Shall be the anticipated final rates; and

(2) May be prospectively or retroactively revised by mutual agreement, at either party's request, to prevent substantial overpayment or underpayment.

(f) Quick-closeout procedures. Quick-closeout procedures are applicable when the conditions in FAR 42.708(a) are satisfied.

(g) Audit. At any time or times before final payment, the Contracting Officer may have the Contractor's invoices or vouchers and statements of cost audited. Any payment may be --

(1) Reduced by amounts found by the Contracting Officer not to constitute allowable costs; or

(2) Adjusted for prior overpayments or underpayments.

(h) Final payment.

(1) Upon approval of a completion invoice or voucher submitted by the Contractor in accordance with paragraph (d)(5) of this clause, and upon the Contractor's compliance with all terms of this contract, the Government shall promptly pay any balance of allowable costs

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> PIIN/SIIN W56HZV-14-R-0039	<b>Page 184 of 265</b> MOD/AMD
---------------------------	--	-----------------------------------

**Name of Offeror or Contractor:**

and that part of the fee (if any) not previously paid.

(2) The Contractor shall pay to the Government any refunds, rebates, credits, or other amounts (including interest, if any) accruing to or received by the Contractor or any assignee under this contract, to the extent that those amounts are properly allocable to costs for which the Contractor has been reimbursed by the Government. Reasonable expenses incurred by the Contractor for securing refunds, rebates, credits, or other amounts shall be allowable costs if approved by the Contracting Officer. Before final payment under this contract, the Contractor and each assignee whose assignment is in effect at the time of final payment shall execute and deliver --

(i) An assignment to the Government, in form and substance satisfactory to the Contracting Officer, of refunds, rebates, credits, or other amounts (including interest, if any) properly allocable to costs for which the Contractor has been reimbursed by the Government under this contract; and

(ii) A release discharging the Government, its officers, agents, and employees from all liabilities, obligations, and claims arising out of or under this contract, except --

(A) Specified claims stated in exact amounts, or in estimated amounts when the exact amounts are not known;

(B) Claims (including reasonable incidental expenses) based upon liabilities of the Contractor to third parties arising out of the performance of this contract; provided, that the claims are not known to the Contractor on the date of the execution of the release, and that the Contractor gives notice of the claims in writing to the Contracting Officer within 6 years following the release date or notice of final payment date, whichever is earlier; and

(C) Claims for reimbursement of costs, including reasonable incidental expenses, incurred by the Contractor under the patent clauses of this contract, excluding, however, any expenses arising from the Contractor's indemnification of the Government against patent liability.

(End of Clause)

I-163      52.217-8      OPTION TO EXTEND SERVICES      NOV/1999

The Government may require continued performance of any services within the limits and at the rates specified in the contract. These rates may be adjusted only as a result of revisions to prevailing labor rates provided by the Secretary of Labor. The option provision may be exercised more than once, but the total extension of performance hereunder shall not exceed 6 months. The Contracting Officer may exercise the option by written notice to the Contractor within 60 days.

(End of Clause)

I-164      52.217-9      OPTION TO EXTEND THE TERM OF THE CONTRACT      MAR/2000

(a) The Government may extend the term of this contract by written notice to the Contractor within 60 days provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 60 days before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option clause.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed eight years.

(End of Clause)

I-165      52.222-2      PAYMENT FOR OVERTIME PREMIUMS      JUL/1990

(a) The use of overtime is authorized under this contract if the overtime premium does not exceed AMOUNT TO BE NEGOTIATED or the overtime premium is paid for work --

(1) Necessary to cope with emergencies such as those resulting from accidents, natural disasters, breakdowns of production equipment, or occasional production bottlenecks of a sporadic nature;

(2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting;

Name of Offeror or Contractor:

(3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably be interrupted or completed otherwise; or

(4) That will result in lower overall costs to the Government.

(b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall --

(1) Identify the work unit; e.g., department or section in which the requested overtime will be used, together with present workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;

(2) Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule;

(3) Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and

(4) Provide reasons why the required work cannot be performed by using multishift operations or by employing additional personnel.

(End of Clause)

I-166 52.222-42 STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES MAY/2014

In compliance with the Service Contract Labor Standards statute and the regulations of the Secretary of Labor (29 CFR part 4), this clause identifies the classes of service employees expected to be employed under the contract and states the wages and fringe benefits payable to each if they were employed by the contracting agency subject to the provisions of 5 U.S.C. 5341 or 5332.

This Statement is for Information Only:
It is not a Wage Determination

Employee Class Monetary Wage -- Fringe Benefits

(End of Clause)

I-167 52.223-7 NOTICE OF RADIOACTIVE MATERIALS JAN/1997

(a) The Contractor shall notify the Contracting Officer or designee, in writing, 60 days prior to the delivery of, or prior to completion of any servicing required by this contract of, items containing either

(1) radioactive material requiring specific licensing under the regulations issued pursuant to the Atomic Energy Act of 1954, as amended, as set forth in Title 10 of the Code of Federal Regulations, in effect on the date of this contract, or

(2) other radioactive material not requiring specific licensing in which the specific activity is greater than 0.002 microcuries per gram or the activity per item equals or exceeds 0.01 microcuries.

Such notice shall specify the part or parts of the items which contain radioactive materials, a description of the materials, the name and activity of the isotope, the manufacturer of the materials, and any other information known to the Contractor which will put users of the items on notice as to the hazards involved (OMB No. 9000-0107).

(b) If there has been no change affecting the quantity of activity, or the characteristics and composition of the radioactive material from deliveries under this contract or prior contracts, the Contractor may request that the Contracting Officer or designee waive the notice requirement in paragraph (a) of this clause. Any such request shall --

(1) Be submitted in writing;

(2) State that the quantity of activity, characteristics, and composition of the radioactive material have not changed; and

(3) Cite the contract number on which the prior notification was submitted and the contracting office to which it was submitted.

**Name of Offeror or Contractor:**

(c) All items, parts, or subassemblies which contain radioactive materials in which the specific activity is greater than 0.002 microcuries per gram or activity per item equals or exceeds 0.01 microcuries, and all containers in which such items, parts or subassemblies are delivered to the Government shall be clearly marked and labeled as required by the latest revision of MIL-STD 129 in effect on the date of the contract.

(d) This clause, including this paragraph (d), shall be inserted in all subcontracts for radioactive materials meeting the criteria in paragraph (a) of this clause.

(End of Clause)

I-168

52.232-16

PROGRESS PAYMENTS

APR/2012

The Government will make progress payments to the Contractor when requested as work progresses, but not more frequently than monthly in amounts of \$2,500 or more approved by the Contracting Officer, under the following conditions:

(a) Computation of amounts.

(1) Unless the Contractor requests a smaller amount, the Government will compute each progress payment as 80 percent of the Contractor's total costs incurred under this contract whether or not actually paid, plus financing payments to subcontractors (see paragraph (j) of this clause), less the sum of all previous progress payments made by the Government under this contract. The Contracting Officer will consider cost of money that would be allowable under FAR 31.205-10 as an incurred cost for progress payment purposes.

(2) The amount of financing and other payments for supplies and services purchased directly for the contract are limited to the amounts that have been paid by cash, check, or other forms of payment, or that are determined due will be paid to subcontractors--

(i) In accordance with the terms and conditions of a subcontract of invoice; and

(ii) Ordinarily within 30 days of the submission of the Contractor's payment request to the Government.

(3) The Government will exclude accrued costs of Contractor contributions under employee pension plans until actually paid unless--

(i) The Contractor's practice is to make contributions to the retirement fund quarterly or more frequently; and

(ii) The contribution does not remain unpaid 30 days after the end of the applicable quarter or shorter payment period (any contribution remaining unpaid shall be excluded from the Contractor's total costs for progress payments until paid).

(4) The Contractor shall not include the following in total costs for progress payment purposes in paragraph (a)(1) of this clause:

(i) Costs that are not reasonable, allocable to this contract, and consistent with sound and generally accepted accounting principles and practices.

(ii) Costs incurred by subcontractors or suppliers.

(iii) Costs ordinarily capitalized and subject to depreciation or amortization except for the properly depreciated or amortized portion of such costs.

(iv) Payments made or amounts payable to the subcontractors or suppliers, except for--

(A) completed work, including partial deliveries, to which the Contractor has acquired title; and

(B) Work under cost-reimbursement or time-and-material subcontracts to which the Contractor has acquired title.

(5) The amount of unliquidated progress payments may exceed neither (i) the progress payments made against incomplete work (including allowable unliquidated progress payments to subcontractors) nor (ii) the value, for progress payment purposes, of the incomplete work. Incomplete work shall be considered to be the supplies and services required by this contract, for which delivery and invoicing by the Contractor and acceptance by the Government are incomplete.

(6) The total amount of progress payments shall not exceed 80 percent of the total contract price.

(7) If a progress payment or the unliquidated progress payments exceed the amounts permitted by subparagraphs (a)(4) or (a)(5) above,

**Name of Offeror or Contractor:**

the Contractor shall repay the amount of such excess to the Government on demand.

(8) Notwithstanding any other terms of the contract, the Contractor agrees not to request progress payments in dollar amounts of less than \$2,500. The Contracting Officer may make exceptions.

(9) The costs applicable to items delivered, invoiced, and accepted shall not include costs in excess of the contract price of the items.

(b) Liquidation. Except as provided in the Termination for Convenience of the Government clause, all progress payments shall be liquidated by deducting from any payment under this contract, other than advance or progress payments, the unliquidated progress payments, or 80 percent of the amount invoiced, whichever is less. The Contractor shall repay to the Government any amounts required by a retroactive price reduction, after computing liquidations and payments on past invoices at the reduced prices and adjusting the unliquidated progress payments accordingly. The Government reserves the right to unilaterally change from the ordinary liquidation rate to an alternate rate when deemed appropriate for proper contract financing.

(c) Reduction or suspension. The Contracting Officer may reduce or suspend progress payments, increase the rate of liquidation, or take a combination of these actions, after finding on substantial evidence any of the following conditions:

(1) The Contractor failed to comply with any material requirement of this contract (which includes paragraphs (f) and (g) below).

(2) Performance of this contract is endangered by the Contractors --

- (i) Failure to make progress; or
- (ii) Unsatisfactory financial condition.

(3) Inventory allocated to this contract substantially exceeds reasonable requirements.

(4) The Contractor is delinquent in payment of the costs of performing this contract in the ordinary course of business.

(5) The fair value of the undelivered work is less than the amount of unliquidated progress payments for that work.

(6) The Contractor is realizing less profit than that reflected in the establishment of any alternate liquidation rate in paragraph (b) above, and that rate is less than the progress payment rate stated in subparagraph (a)(1) above.

(d) Title.

(1) Title to the property described in this paragraph (d) shall vest in the Government. Vestiture shall be immediately upon the date of this contract, for property acquired or produced before that date. Otherwise, vestiture shall occur when the property is or should have been allocable or properly chargeable to this contract.

(2) Property, as used in this clause, includes all of the below-described items acquired or produced by the Contractor that are or should be allocable or properly chargeable to this contract under sound and generally accepted accounting principles and practices.

(i) Parts, materials, inventories, and work in process;

(ii) Special tooling and special test equipment to which the Government is to acquire title;

(iii) Nondurable (i.e., noncapital) tools, jigs, dies, fixtures, molds, patterns, taps, gauges, test equipment, and other similar manufacturing aids, title to which would not be obtained as special tooling under subparagraph (ii) above; and

(iv) Drawings and technical data, to the extent the Contractor or subcontractors are required to deliver them to the Government by other clauses of this contract.

(3) Although title to property is in the Government under this clause, other applicable clauses of this contract; e.g., the termination clauses, shall determine the handling and disposition of the property.

(4) The Contractor may sell any scrap resulting from production under this contract without requesting the Contracting Officers approval, but the proceeds shall be credited against the costs of performance.

(5) To acquire for its own use or dispose of property to which title is vested in the Government under this clause, the Contractor must obtain the Contracting Officers advance approval of the action and the terms. The Contractor shall

(i) exclude the allocable costs of the property from the costs of contract performance, and

(ii) repay to the Government any amount of unliquidated progress payments allocable to the property. Repayment may be by cash or

**Name of Offeror or Contractor:**

credit memorandum.

(6) When the Contractor completes all of the obligations under this contract, including liquidation of all progress payments, title shall vest in the Contractor for all property (or the proceeds thereof) not --

(i) Delivered to, and accepted by, the Government under this contract; or

(ii) Incorporated in supplies delivered to, and accepted by, the Government under this contract and to which title is vested in the Government under this clause.

(7) The terms of this contract concerning liability for Government-furnished property shall not apply to property to which the Government acquired title solely under this clause.

(e) Risk of loss. Before delivery to and acceptance by the Government, the Contractor shall bear the risk of loss for property, the title to which vests in the Government under this clause, except to the extent the Government expressly assumes the risk. The Contractor shall repay the Government an amount equal to the unliquidated progress payments that are based on costs allocable to property that is lost (see 45.101).

(f) Control of costs and property. The Contractor shall maintain an accounting system and controls adequate for the proper administration of this clause.

(g) Reports, forms, and access to records.

(1) The Contractor shall promptly furnish reports, certificates, financial statements, and other pertinent information (including estimates to complete) reasonably requested by the Contracting Officer for the administration of this clause. Also, the Contractor shall give the Government reasonable opportunity to examine and verify the Contractor's books, records, and accounts.

(2) The Contractor shall furnish estimates to complete that have been developed or updated within six months of the date of the progress payment request. The estimates to complete shall represent the Contractor's best estimate of total costs to complete all remaining contract work required under the contract. The estimates shall include sufficient detail to permit Government verification.

(3) Each Contractor request for progress payment shall:

(i) Be submitted on Standard Form 1443, Contractor's Request for Progress Payment, or the electronic equivalent as required by agency regulations, in accordance with the form instructions and the contract terms; and

(ii) Include any additional supporting documentation requested by the Contracting Officer.

(h) Special terms regarding default. If this contract is terminated under the Default clause,

(i) the Contractor shall, on demand, repay to the Government the amount of unliquidated progress payments and

(ii) title shall vest in the Contractor, on full liquidation of progress payments, for all property for which the Government elects not to require delivery under the Default clause. The Government shall be liable for no payment except as provided by the Default clause.

(i) Reservations of rights.

(1) No payment or vesting of title under this clause shall --

(i) Excuse the Contractor from performance of obligations under this contract; or

(ii) Constitute a waiver of any of the rights or remedies of the parties under the contract.

(2) The Governments rights and remedies under this clause --

(i) Shall not be exclusive but rather shall be in addition to any other rights and remedies provided by law or this contract; and

(ii) Shall not be affected by delayed, partial, or omitted exercise of any right, remedy, power, or privilege, nor shall such exercise or any single exercise preclude or impair any further exercise under this clause or the exercise of any other right, power, or privilege of the Government.

(j) Financing payments to subcontractors. The financing payments to subcontractors mentioned in paragraphs (a)(1) and (a)(2) of this clause shall be all financing payments to subcontractors or divisions, if the following conditions are met:

**Name of Offeror or Contractor:**

(1) The amounts included are limited to --

- (i) The unliquidated remainder of financing payments made; plus
- (ii) Any unpaid subcontractor requests for financing payments.

(2) The subcontract or interdivisional order is expected to involve a minimum of approximately 6 months between the beginning of work and the first delivery, or, if the subcontractor is a small business concern, 4 months.

(3) If the financing payments are in the form of progress payments, the terms of the subcontract or interdivisional order concerning progress payments --

- (i) Are substantially similar to the terms of the clause for any subcontractor that is a large business concern, or that clause with its Alternate I for any subcontractor that is a small business concern;
- (ii) Are at least as favorable to the Government as the terms of this clause;
- (iii) Are not more favorable to the subcontractor or division than the terms of this clause are to the Contractor;
- (iv) Are in conformance with the requirements of FAR 32.504(e); and
- (v) Subordinate all subcontractor rights concerning property to which the Government has title under the subcontract to the Government's right to require delivery of the property to the Government if --
  - (A) The Contractor defaults; or
  - (B) The subcontractor becomes bankrupt or insolvent.

(4) If the financing payments are in the form of performance-based payments, the terms of the subcontract or interdivisional order concerning payments--

- (i) Are substantially similar to the Performance-Based Payments clause at FAR 52.232-32 and meet the criteria for, and definition of, performance-based payments in FAR Part 32;
- (ii) Are in conformance with the requirements of FAR 32.504(f); and
- (iii) Subordinate all subcontractor rights concerning property to which the Government has title under the subcontract to the Government's right to require delivery of the property to the Government if--
  - (A) The Contractor defaults; or
  - (B) The subcontractor becomes bankrupt or insolvent.

(5) If the financing payments are in the form of commercial item financing payments, the terms of the subcontract or interdivisional order concerning payments

- (i) Are constructed in accordance with FAR 32.206(c) and included in a subcontract for a commercial item purchase that meets the definition and standards for acquisition of commercial items in FAR Part 2 and 12;
- (ii) Are in conformance with the requirements of FAR 32.504(g); and
- (iii) Subordinate all subcontractor rights concerning property to which the Government has title under the subcontract to the Government's right to require delivery of the property to the Government if--
  - (A) The Contractor defaults; or
  - (B) The subcontractor becomes bankrupt or insolvent.

(6) If financing is in the form of progress payments, the progress payment rate in the subcontract is the customary rate used by the contracting agency, depending on whether the subcontractor is or is not a small business concern.

(7) Concerning any proceeds received by the Government for property to which title has vested in the Government under the subcontract terms, the parties agree that the proceeds shall be applied to reducing any unliquidated financing payments by the Government to the Contractor under this contract.

(8) If no unliquidated financing payments to the Contractor remain, but there are unliquidated financing payments that the Contractor

**Name of Offeror or Contractor:**

has made to any subcontractor, the Contractor shall be subrogated to all the rights the Government obtained through the terms required by this clause to be in any subcontract, as if all such rights had been assigned and transferred to the Contractor.

(9) To facilitate small business participation in subcontracting under this contract, the Contractor shall provide financing payments to small business concerns, in conformity with the standards for customary contract financing payments stated in Subpart 32.113. The Contractor shall not consider the need for such financing payments as a handicap or adverse factor in the award of subcontracts.

(k) Limitations on undefinitized contract actions. Notwithstanding any other progress payment provisions in this contract, progress payments may not exceed 80 percent of costs incurred on work accomplished under undefinitized contract actions. A contract action is any action resulting in a contract, as defined in Subpart 2.1, including contract modifications for additional supplies or services, but not including contract modifications that are within the scope and under the terms of the contract, such as contract modifications issued pursuant to the Changes clause, or funding and other administrative changes. This limitation shall apply to the costs incurred, as computed in accordance with paragraph (a) of this clause, and shall remain in effect until the contract action is definitized. Costs incurred which are subject to this limitation shall be segregated on Contractor progress payment requests and invoices from those costs eligible for higher progress payment rates. For purposes of progress payment liquidation, as described in paragraph (b) of this clause, progress payments for undefinitized contract actions shall be liquidated at 80 percent of the amount invoiced for work performed under the undefinitized contract action as long as the contract action remains undefinitized. The amount of unliquidated progress payments for undefinitized contract actions shall not exceed 80 percent of the maximum liability of the Government under the undefinitized contract action or such lower limit specified elsewhere in the contract. Separate limits may be specified for separate actions.

(l) Due date. The designated payment office will make progress payments on the 30 day after the designated billing office receives a proper progress payment request. In the event that the Government requires an audit or other review of a specific progress payment request to ensure compliance with the terms and conditions of the contract, the designated payment office is not compelled to make a payment by the specified due date. Progress payments are considered contract financing and are not subject to the interest penalty provisions of the Prompt Payment Act.

(m) Progress payments under indefinitized delivery contracts. The Contractor shall account for and submit progress payment requests under individual orders as if the order constituted a separate contract, unless otherwise specified in this contract.

(End of Clause)

I-169

52.243-7

NOTIFICATION OF CHANGES

APR/1984

(a) Definitions. Contracting Officer, as used in this clause, does not include any representative of the Contracting Officer.

Specifically Authorized Representative (SAR), as used in this clause, means any person the Contracting Officer has so designated by written notice (a copy of which shall be provided to the Contractor) which shall refer to this subparagraph and shall be issued to the designated representative before the SAR exercises such authority.

(b) Notice. The primary purpose of this clause is to obtain prompt reporting of Government conduct that the Contractor considers to constitute a change to this contract. Except for changes identified as such in writing and signed by the Contracting Officer, the Contractor shall notify the Administrative Contracting Officer in writing promptly, within five calendar days from the date that the Contractor identifies any Government conduct (including actions, inactions, and written or oral communications) that the Contractor regards as a change to the contract terms and conditions. On the basis of the most accurate information available to the Contractor, the notice shall state --

- (1) The date, nature, and circumstances of the conduct regarded as a change;
- (2) The name, function, and activity of each Government individual and Contractor official or employee involved in or knowledgeable about such conduct;
- (3) The identification of any documents and the substance of any oral communication involved in such conduct;
- (4) In the instance of alleged acceleration of scheduled performance or delivery, the basis upon which it arose;
- (5) The particular elements of contract performance for which the Contractor may seek an equitable adjustment under this clause, including --
  - (i) What contract line items have been or may be affected by the alleged change;
  - (ii) What labor or materials or both have been or may be added, deleted, or wasted by the alleged change;
  - (iii) To the extent practicable, what delay and disruption in the manner and sequence of performance and effect on continued

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> PIIN/SIIN W56HZV-14-R-0039	<b>Page 191 of 265</b> MOD/AMD
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**Name of Offeror or Contractor:**

performance have been or may be caused by the alleged change;

(iv) What adjustments to contract price, delivery schedule, and other provisions affected by the alleged change are estimated; and

(6) The Contractors estimate of the time by which the Government must respond to the Contractors notice to minimize cost, delay or disruption of performance.

(c) Continued performance. Following submission of the notice required by paragraph (b) of this clause, the Contractor shall diligently continue performance of this contract to the maximum extent possible in accordance with its terms and conditions as construed by the Contractor, unless the notice reports a direction of the Contracting Officer or a communication from a SAR of the Contracting Officer, in either of which events the Contractor shall continue performance; provided, however, that if the Contractor regards the direction or communication as a change as described in paragraph (b) of this clause, notice shall be given in the manner provided. All directions, communications, interpretations, orders and similar actions of the SAR shall be reduced to writing promptly and copies furnished to the Contractor and to the Contracting Officer. The Contracting Officer shall promptly countermand any action which exceeds the authority of the SAR.

(d) Government response. The Contracting Officer shall promptly, within five calendar days after receipt of notice, respond to the notice in writing. In responding, the Contracting Officer shall either --

(1) Confirm that the conduct of which the Contractor gave notice constitutes a change and when necessary direct the mode of further performance;

(2) Countermand any communication regarded as a change;

(3) Deny that the conduct of which the Contractor gave notice constitutes a change and when necessary direct the mode of further performance; or

(4) In the event the Contractors notice information is inadequate to make a decision under subparagraphs (d)(1), (2), or (3) of this clause, advise the Contractor what additional information is required, and establish the date by which it should be furnished and the date thereafter by which the Government will respond.

(e) Equitable adjustments.

(1) If the Contracting Officer confirms that Government conduct effected a change as alleged by the Contractor, and the conduct causes an increase or decrease in the Contractors cost of, or the time required for, performance of any part of the work under this contract, whether changed or not changed by such conduct, an equitable adjustment shall be made --

(i) In the contract price or delivery schedule or both; and

(ii) In such other provisions of the contract as may be affected.

(2) The contract shall be modified in writing accordingly. In the case of drawings, designs or specifications which are defective and for which the Government is responsible, the equitable adjustment shall include the cost and time extension for delay reasonably incurred by the Contractor in attempting to comply with the defective drawings, designs or specifications before the Contractor identified, or reasonably should have identified, such defect. When the cost of property made obsolete or excess as a result of a change confirmed by the Contracting Officer under this clause is included in the equitable adjustment, the Contracting Officer shall have the right to prescribe the manner of disposition of the property. The equitable adjustment shall not include increased costs or time extensions for delay resulting from the Contractors failure to provide notice or to continue performance as provided, respectively, in paragraphs (b) and (c) of this clause.

NOTE: The phrases contract price and cost wherever they appear in the clause, may be appropriately modified to apply to cost-reimbursement or incentive contracts, or to combinations thereof.

(End of Clause)

(a) Definitions. As used in this clause

Approved purchasing system means a Contractor's purchasing system that has been reviewed and approved in accordance with Part 44 of the Federal Acquisition Regulation (FAR)

**Name of Offeror or Contractor:**

Consent to subcontract means the Contracting Officer's written consent for the Contractor to enter into a particular subcontract.

Subcontract means any contract, as defined in FAR Subpart 2.1, entered into by a subcontractor to furnish supplies or services for performance of the prime contract or a subcontract. It includes, but is not limited to, purchase orders, and changes and modifications to purchase orders.

(b) When this clause is included in a fixed-price type contract, consent to subcontract is required only on unpriced contract actions (including unpriced modifications or unpriced delivery orders), and only if required in accordance with paragraph (c) or (d) or this clause.

(c) If the contractor does not have an approved purchasing system, consent to subcontract is required for any subcontract that--

(1) Is of the cost-reimbursement, time-and-materials, or labor-hour type; or

(2) Is fixed-price and exceeds

(i) For a contract awarded by the Department of Defense, the Coast Guard, or the national Aeronautics and Space Administration, the greater of the simplified acquisition threshold or 5 percent of the total estimated cost of the contract; or

(ii) For contracts awarded by a civilian agency other than the Coast Guard and the National Aeronautics and Space Administration, either the simplified acquisition threshold or 5 percent of the total estimated cost of the contract.

(d) If the Contractor has an approved purchasing system, the Contractor nevertheless shall obtain the Contracting Officer's written consent before placing the following subcontracts: -1-

(e)(1) The Contractor shall notify the Contracting Officer reasonably in advance of placing any subcontract or modification thereof for which consent is required under paragraph (b), (c), or (d) of this clause, including the following information:

(i) A description of the supplies or services to be subcontracted.

(ii) Identification of the type of subcontract to be used.

(iii) Identification of the proposed subcontractor.

(iv) The proposed subcontract price.

(v) The subcontractor's current, complete, and accurate certified cost or pricing data and Certificate of Current Cost or Pricing Data, if required by other contract provisions.

(vi) The subcontractor's Disclosure Statement or Certificate relating to Cost Accounting Standards when such data are required by other provisions of this contract.

(vii) A negotiation memorandum reflecting --

(A) The principal elements of the subcontract price negotiations;

(B) The most significant considerations controlling establishment of initial or revised prices;

(C) The reason certified cost or pricing data were or were not required;

(D) The extent, if any, to which the Contractor did not rely on the subcontractor's certified cost or pricing data in determining the price objective and in negotiating the final price;

(E) The extent to which it was recognized in the negotiation that the subcontractor's certified cost or pricing data were not accurate, complete, or current; the action taken by the Contractor and the subcontractor; and the effect of any such defective data on the total price negotiated;

(F) The reasons for any significant difference between the Contractor's price objective and the price negotiated; and

(G) A complete explanation of the incentive fee or profit plan when incentives are used. The explanation shall identify each critical performance element, management decisions used to quantify each incentive element, reasons for the incentives, and a summary of all trade-off possibilities considered.

(2) The Contractor is not required to notify the Contracting Officer in advance of entering into any subcontract for which consent is not required under paragraph (c), (d), or (e) or this clause.

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>	<b>Page 193 of 265</b>
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD

**Name of Offeror or Contractor:**

(f) Unless the consent or approval specifically provides otherwise, neither consent by the Contracting Officer to any subcontract nor approval of the Contractor's purchasing system shall constitute a determination --

- (1) Of the acceptability of any subcontract terms or conditions;
- (2) Of the allowability of any cost under this contract; or
- (3) To relieve the Contractor of any responsibility for performing this contract.

(g) No subcontract or modification thereof placed under this contract shall provide for payment on a cost-plus-a-percentage-of-cost basis, and any fee payable under cost-reimbursement type subcontracts shall not exceed the fee limitations in FAR 15.404-4(c)(4)(i).

(h) The Contractor shall give the Contracting Officer immediate written notice of any action or suit filed and prompt notice of any claim made against the Contractor by any subcontractor or vendor that, in the opinion of the Contractor, may result in litigation related in any way to this contract, with respect to which the Contractor may be entitled to reimbursement from the Government.

(i) The Government reserves the right to review the Contractor's purchasing system as set forth in FAR Subpart 44.3.i

(j) Paragraphs (c) and (e) of this clause do not apply to the following subcontracts, which were evaluated during negotiations: -2-

(End of clause)

I-171            52.247-67            SUBMISSION OF TRANSPORTATION DOCUMENTS FOR AUDIT            FEB/2006

(a) The Contractor shall submit to the address identified below, for prepayment audit, transportation documents on which the United States will assume freight charges that were paid

- (1) By the Contractor under a cost-reimbursement contract; and
- (2) By a first-tier subcontractor under a cost-reimbursement subcontract thereunder.

(b) Cost-reimbursement Contractors shall only submit for audit those bills of lading with freight shipment charges exceeding \$100. Bills under \$100 shall be retained on-site by the Contractor and made available for on-site audits. This exception only applies to freight shipment bills and is not intended to apply to bills and invoices for any other transportation services.

(c) Contractors shall submit the above referenced transportation documents to

-1-

-2-

-3-

(End of Clause)

I-172            252.203-7004            DISPLAY OF FRAUD HOTLINE POSTER(S)            DEC/2012

(a) Definition. United States, as used in this clause, means the 50 States, the District of Columbia, and outlying areas.

(b) Display of fraud hotline poster(s).

(1) The Contractor shall display prominently in common work areas within business segments performing work in the United States under Department of Defense (DoD) contracts DoD hotline posters prepared by the DoD Office of the Inspector General. DoD hotline posters may be obtained via the Internet at [http://www.dodig.mil/HOTLINE/hotline\\_posters.htm](http://www.dodig.mil/HOTLINE/hotline_posters.htm).

(2) If the contract is funded, in whole or in part, by Department of Homeland Security (DHS) disaster relief funds, the DHS fraud hotline poster shall be displayed in addition to the DoD fraud hotline poster. If a display of a DHS fraud hotline poster is required, the Contractor may obtain such poster from:

N/A

(3) Additionally, if the Contractor maintains a company website as a method of providing information to employees, the Contractor

**Name of Offeror or Contractor:**

shall display an electronic version of the poster(s) at the website.

(c) Subcontracts. The Contractor shall include the substance of this clause, including this paragraph (c), in all subcontracts that exceed \$5 million except when the subcontract--

(1) Is for the acquisition of a commercial item; or

(2) Is performed entirely outside the United States.

(End of clause)

I-173 252.225-7027 RESTRICTION ON CONTINGENT FEES FOR FOREIGN MILITARY SALES APR/2003

(a) Except as provided in paragraph (b) of this clause, contingent fees, as defined in the Covenant Against Contingent Fees clause of this contract, are generally an allowable cost, provided the fees are paid to

(1) A bona fide employee of the Contractor; or

(2) A bona fide established commercial or selling agency maintained by the Contractor for the purpose of securing business.

(b) For foreign military sales, unless the contingent fees have been identified and payment approved in writing by the foreign customer before contract award, the following contingent fees are unallowable under this contract:

(1) For sales to the Government(s) of N/A, contingent fees in any amount.

(2) For sales to Governments not listed in paragraph (b)(1) of this clause, contingent fees exceeding \$50,000 per foreign military sale case.

(End of clause)

I-174 252.225-7995 CONTRACTOR PERSONNEL PERFORMING IN THE UNITED STATES CENTRAL COMMAND JUN/2013  
(DEV 2013- AREA OF RESPONSIBILITY (DEVIATION 2013-00015)  
00015)

(a) General. (1) This clause applies when Contractor personnel are required to perform in the United States Central Command (USCENTCOM) Area of Responsibility (AOR) and are not covered by the clause at DFARS 252.225-7040, Contractor Personnel Authorized to Accompany U.S. Armed Forces Deployed Outside the United States.

(2) Contract performance may require work in dangerous or austere conditions. Except as otherwise provided in the contract, the Contractor accepts the risks associated with required contract performance in such operations.

(3) Contractor personnel are civilians. When authorized in accordance with paragraph (h) of this clause to carry arms for personal protection, Contractor personnel are only authorized to use force for individual self-defense.

(4) Service performed by Contractor personnel subject to this clause is not active duty or service under 38 U.S.C. 106 note.

(b) Support. Unless specified elsewhere in the contract, the Contractor is responsible for all logistical and security support required for Contractor personnel engaged in this contract.

(c) Compliance with laws and regulations. (1) The Contractor shall comply with, and shall ensure that its personnel in the USCENTCOM AOR are familiar with and comply with, all applicable--

(i) United States, host country, and third country national laws;

(ii) Treaties and international agreements;

(iii) United States regulations, directives, instructions, policies, and procedures; and

(iv) Force protection, security, health, or safety orders, directives, and instructions issued by the USCENTCOM Commander; however, only the Contracting Officer is authorized to modify the terms and conditions of the contract.

**Name of Offeror or Contractor:**

(2) The Contractor shall ensure that Contractor employees are aware of their rights to--

- (A) Hold their own identity or immigration documents, such as passport or drivers license;
- (B) Receive agreed upon wages on time;
- (C) Take lunch and work-breaks;
- (D) Elect to terminate employment at any time;
- (E) Identify grievances without fear of reprisal;
- (F) Have a copy of their employment contract in a language they understand;
- (G) Receive wages that are not below the legal in-country minimum wage;
- (H) Be notified of their rights, wages, and prohibited activities prior to signing their employment contract; and
- (I) If housing is provided, live in housing that meets host-country housing and safety standards.

(d) Preliminary personnel requirements. (1) Specific requirements for paragraphs (d)(2)(i) and (d)(2)(ii) of this clause will be set forth in the statement of work or elsewhere in the contract.

(2) Before Contractor personnel begin contract performance in the USCENTCOM AOR, the Contractor shall ensure the following:

- (i) All required security and background checks are complete and acceptable.
- (ii) All personnel are medically and physically fit and have received all required vaccinations.

(e) Registration of Contractor personnel.

(1) The Contractor shall use the Synchronized Predeployment and Operational Tracker (SPOT) web-based system to enter and maintain data for all Contractor employees covered by this clause, following the procedures in paragraph (e)(3) of this clause.

(2) Upon becoming an employee under this contract, the Contractor shall enter into SPOT, and shall continue to use SPOT web-based system to maintain accurate, up-to-date information throughout the employment in the AOR. Changes to status of individual Contractor personnel relating to their in-theater arrival date and their duty location, to include closing out the employment in the AOR with their proper status (e.g., mission complete, killed, wounded) shall be annotated within the SPOT database in accordance with the timelines established in the SPOT business rules.

- (i) In all circumstances, this includes any personnel performing private security functions.
- (ii) For personnel other than those performing private security functions, this requirement excludes anyone--
  - (A) Hired under contracts valued below the simplified acquisition threshold;
  - (B) Who will be performing in the CENTCOM AOR less than 30 continuous days; or
  - (C) Who, while afloat, are tracked by the Diary message Reporting System

(3) Follow these steps to register in and use SPOT:

(i) SPOT registration requires one of the following login methods:

- (A) A Common Access Card or a SPOT-approved digital certificate; or
- (B) A Government-sponsored SPOT user ID and password or an Army Knowledge Online (AKO) account.

(ii) To register in SPOT:

(A) Contractor company administrators should register for a SPOT account at <https://spot.altess.army.mil>; and

(B) The customer support team must validate user need. This process may take two business days. Company supervisors will be contacted to validate Contractor company administrator account requests and determine the appropriate level of user access.

**Name of Offeror or Contractor:**

(iii) Upon approval, all users will access SPOT at <https://spot.altess.army.mil/>.

(iv) Refer SPOT application assistance questions to the Customer Support Team at 717-458-0747 or [SPOT.helpdesk@us.army.mil](mailto:SPOT.helpdesk@us.army.mil). Refer to the SPOT Enterprise Suite Resource Center at <http://www.resource.spot-es.net/> for additional training resources and documentation regarding registration for and use of SPOT.

(4) The Contractor shall submit aggregate Contractor personnel counts at a minimum quarterly or as directed by the Contracting Officer by category (i.e. U.S. third country national or local national) of those Contractor personnel who are on contracts valued at more than the simplified acquisition threshold, but performing less than 30 days in the AOR (e.g. day laborers).

(f) Contractor personnel. The Contracting Officer may direct the personnel who fail to comply with or violate applicable requirements of this contract. Such action may be taken at the Government's discretion without prejudice to its rights under any other provision of this contract, including termination for default or cause.

(g) Military clothing and protective equipment.

(1) Contractor personnel are prohibited from wearing military clothing unless specifically authorized by the USCENTCOM Commander. If authorized to wear military clothing, Contractor personnel must wear distinguishable from military personnel, consistent with force protection measures.

(2) Contractor personnel may wear specific items required for safety and security, such as ballistic, nuclear, biological, or chemical protective equipment.

(h) Weapons.

(1) If the Contractor requests that its personnel performing in the designated operational area be authorized to carry weapons for personal protection, the request shall be made through the Contracting Officer to the USCENTCOM Commander, in accordance with DoD Instruction 3020.41, enclosure 2, paragraph 4.e.(2).. The USCENTCOM Commander will determine whether to authorize in-theater Contractor personnel to carry weapons and what weapons and ammunition will be allowed.

(2) If the Contracting Officer, subject to the approval of the USCENTCOM Commander, authorizes the carrying of weapons--

(i) The Contracting Officer may authorize an approved contractor to issue contractor-owned weapons and ammunition to specified employees; or

(ii) The Contracting Officer Representative may issue Government-furnished weapons and ammunition to the Contractor for issuance to specified Contractor employees.

(3) The Contractor shall ensure that its personnel who are authorized to carry weapons--

(i) Are adequately trained to carry and use them--

(A) Safely;

(B) With full understanding of, and adherence to, the rules of the use of force issued by the USCENTCOM Commander; and

(C) In compliance with applicable Department of Defense and agency policies, agreements, rules, regulations, and other applicable law;

(ii) Are not barred from possession of a firearm by 18 U.S.C. 922; and

(iii) Adhere to all guidance and orders issued by the USCENTCOM Commander regarding possession, use, safety, and accountability of weapons and ammunition.

(4) Upon revocation by the Contracting Officer of the Contractor's authorization to possess weapons, the Contractor shall ensure that all Government-furnished weapons and unexpended ammunition are returned as directed by the Contracting Officer.

(5) Whether or not weapons are Government-furnished, all liability for the use of any weapon by Contractor personnel rests solely with the Contractor and the Contractor employee using such weapon.

(i) Vehicle or equipment licenses. Contractor personnel shall possess the required licenses to operate all vehicles or equipment necessary to perform the contract in the area of performance.

(j) Evacuation. In the event of a non-mandatory evacuation order, the Contractor shall maintain personnel on location sufficient to

**Name of Offeror or Contractor:**

meet contractual obligations unless instructed to evacuate by the Contracting Officer.

(k) Notification and return of personal effects. (1) The Contractor shall be responsible for notification of the employee-designated next of kin, and notification as soon as possible to the U.S. Consul responsible for the area in which the event occurred, if the employee--

(i) Dies;

(ii) Requires evacuation due to an injury; or

(iii) Is isolated, missing, detained, captured, or abducted.

(2) The Contractor shall also be responsible for the return of all personal effects of deceased or missing Contractor personnel, if appropriate, to next of kin.

(l) Mortuary affairs. Mortuary affairs for Contractor personnel who die in the area of performance will be handled in accordance with DoD Directive 1300.22, Mortuary Affairs Policy and DoDI 3020.41 (enclosure 2, paragraph 4.h.).

(m) Changes. In addition to the changes otherwise authorized by the Changes clause of this contract, the Contracting Officer may, at any time, by written order identified as a change order, make changes in place of performance or Government-furnished facilities, equipment, material, services, or site. Any change order issued in accordance with this paragraph shall be subject to the provisions of the Changes clause of this contract.

(n) Subcontracts. The Contractor shall incorporate the substance of this clause, including this paragraph (n), in all subcontracts that require subcontractor personnel to perform in the USCENTCOM AOR.

(End of clause)

I-175 252.234-7002 EARNED VALUE MANAGEMENT SYSTEM

MAY/2011

(a) Definitions. As used in this clause--

Acceptable earned value management system means an earned value management system that generally complies with system criteria in paragraph (b) of this clause.

Earned value management system means an earned value management system that complies with the earned value management system guidelines in the ANSI/EIA-748.

Significant deficiency means a shortcoming in the system that materially affects the ability of officials of the Department of Defense to rely upon information produced by the system that is needed for management purposes.

(b) System criteria. In the performance of this contract, the Contractor shall use--

(1) An Earned Value Management System (EVMS) that complies with the EVMS guidelines in the American National Standards Institute/Electronic Industries Alliance Standard 748, Earned Value Management Systems (ANSI/EIA-748); and

(2) Management procedures that provide for generation of timely, reliable, and verifiable information for the Contract Performance Report (CPR) and the Integrated Master Schedule (IMS) required by the CPR and IMS data items of this contract.

(c) If this contract has a value of \$50 million or more, the Contractor shall use an EVMS that has been determined to be acceptable by the Cognizant Federal Agency (CFA). If, at the time of award, the Contractor's EVMS has not been determined by the CFA to be in compliance with the EVMS guidelines as stated in paragraph (b)(1) of this clause, the Contractor shall apply its current system to the contract and shall take necessary actions to meet the milestones in the Contractor's EVMS plan.

(d) If this contract has a value of less than \$50 million, the Government will not make a formal determination that the Contractor's EVMS complies with the EVMS guidelines in ANSI/EIA-748 with respect to the contract. The use of the Contractor's EVMS for this contract does not imply a Government determination of the Contractor's compliance with the EVMS guidelines in ANSI/EIA-748 for application to future contracts. The Government will allow the use of a Contractor's EVMS that has been formally reviewed and determined by the CFA to be in compliance with the EVMS guidelines in ANSI/EIA-748.

(e) The Contractor shall submit notification of any proposed substantive changes to the EVMS procedures and the impact of those changes to the CFA. If this contract has a value of \$50 million or more, unless a waiver is granted by the CFA, any EVMS changes proposed by the Contractor require approval of the CFA prior to

**Name of Offeror or Contractor:**

implementation. The CFA will advise the Contractor of the acceptability of such changes as soon as practicable (generally within 30 calendar days) after receipt of the Contractor's notice of proposed changes. If the CFA waives the advance approval requirements, the Contractor shall disclose EVMS changes to the CFA at least 14 calendar days prior to the effective date of implementation.

(f) The Government will schedule integrated baseline reviews as early as practicable, and the review process will be conducted not later than 180 calendar days after--

- (1) Contract award;
- (2) The exercise of significant contract options; and
- (3) The incorporation of major modifications.

During such reviews, the Government and the Contractor will jointly assess the Contractor's baseline to be used for performance measurement to ensure complete coverage of the statement of work, logical scheduling of the work activities, adequate resourcing, and identification of inherent risks.

(g) The Contractor shall provide access to all pertinent records and data requested by the Contracting Officer or duly authorized representative as necessary to permit Government surveillance to ensure that the EVMS complies, and continues to comply, with the performance criteria referenced in paragraph (b) of this clause.

(h) When indicated by contract performance, the Contractor shall submit a request for approval to initiate an over-target baseline or over-target schedule to the Contracting Officer. The request shall include a top-level projection of cost and/or schedule growth, a determination of whether or not performance variances will be retained, and a schedule of implementation for the rebaselining. The Government will acknowledge receipt of the request in a timely manner (generally within 30 calendar days).

(i) Significant deficiencies. (1) The Contracting Officer will provide an initial determination to the Contractor, in writing, on any significant deficiencies. The initial determination will describe the deficiency in sufficient detail to allow the Contractor to understand the deficiency.

(2) The Contractor shall respond within 30 days to a written initial determination from the Contracting Officer that identifies significant deficiencies in the Contractor's EVMS. If the Contractor disagrees with the initial determination, the Contractor shall state, in writing, its rationale for disagreeing.

(3) The Contracting Officer will evaluate the Contractor's response and notify the Contractor, in writing, of the Contracting Officer's final determination concerning--

- (i) Remaining significant deficiencies;
- (ii) The adequacy of any proposed or completed corrective action;
- (iii) System noncompliance, when the Contractor's existing EVMS fails to comply with the earned value management system guidelines in the ANSI/EIA-748; and

(iv) System disapproval, if initial EVMS validation is not successfully completed within the timeframe approved by the Contracting Officer, or if the Contracting Officer determines that the Contractor's earned value management system contains one or more significant deficiencies in high-risk guidelines in ANSI/EIA-748 standards (guidelines 1, 3, 6, 7, 8, 9, 10, 12, 16, 21, 23, 26, 27, 28, 30, or 32). When the Contracting Officer determines that the existing earned value management system contains one or more significant deficiencies in one or more of the remaining 16 guidelines in ANSI/EIA-748 standards, the contracting officer will use discretion to disapprove the system based on input received from functional specialists and the auditor.

(4) If the Contractor receives the Contracting Officer's final determination of significant deficiencies, the Contractor shall, within 45 days of receipt of the final determination, either correct the significant deficiencies or submit an acceptable corrective action plan showing milestones and actions to eliminate the significant deficiencies.

(j) Withholding payments. If the Contracting Officer makes a final determination to disapprove the Contractor's EVMS, and the contract includes the clause at 252.242-7005, Contractor Business Systems, the Contracting Officer will withhold payments in accordance with that clause.

(k) With the exception of paragraphs (i) and (j) of this clause, the Contractor shall require its subcontractors to comply with EVMS requirements as follows:

- (1) For subcontracts valued at \$50 million or more, the following subcontractors shall comply with the requirements of this clause:

**Name of Offeror or Contractor:**

-1-

(2) For subcontracts valued at less than \$50 million, the following subcontractors shall comply with the requirements of this clause, excluding the requirements of paragraph (c) of this clause:

-2-

(End of clause)

I-176 252.235-7010 ACKNOWLEDGMENT OF SUPPORT AND DISCLAIMER MAY/1995

(a) The Contractor shall include an acknowledgment of the Government's support in the publication of any material based on or developed under this contract, stated in the following terms: This material is based upon work supported by the -1- under Contract No. -2-.

(b) All material, except scientific articles or papers published in scientific journals, must, in addition to any notices or disclaimers by the Contractor, also contain the following disclaimer: Any opinions, findings and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the -1-.

(End of clause)

I-177 252.239-7016 TELECOMMUNICATIONS SECURITY EQUIPMENT, DEVICES, TECHNIQUES, AND SERVICES DEC/1991

(a) Definitions. As used in this clause

(1) Securing means the application of Government-approved telecommunications security equipment, devices, techniques, or services to contractor telecommunications systems.

(2) Sensitive information means any information the loss, misuse, or modification of which, or unauthorized access to, could adversely affect the national interest or the conduct of Federal programs, or the privacy to which individuals are entitled under 5 U.S.C. 552a (the Privacy Act), but which has not been specifically authorized under criteria established by an Executive Order or Act of Congress to be kept secret in the interest of national defense or foreign policy.

(3) Telecommunications systems means voice, record, and data communications, including management information systems and local data networks that connect to external transmission media, when employed by Government agencies, contractors, and subcontractors to transmit

(i) Classified or sensitive information;

(ii) Matters involving intelligence activities, cryptologic activities related to national security, the command and control of military forces, or equipment that is an integral part of a weapon or weapons system; or

(iii) Matters critical to the direct fulfillment of military or intelligence missions.

(b) This solicitation/contract identifies classified or sensitive information that requires securing during telecommunications and requires the Contractor to secure telecommunications systems. The Contractor agrees to secure information and systems at the following location: Contractor location

(c) To provide the security, the Contractor shall use Government-approved telecommunications equipment, devices, techniques, or services. A list of the approved equipment, etc. may be obtained from standard device list or location. Equipment, devices, techniques, or services used by the Contractor must be compatible or interoperable with JPO JLTV Detroit Arseanl COMSEC custodian, test sits

(d) Except as may be provided elsewhere in this contract, the Contractor shall furnish all telecommunications security equipment, devices, techniques, or services necessary to perform this contract. The Contractor must meet ownership eligibility conditions for communications security equipment designated as controlled cryptographic items.

(e) The Contractor agrees to include this clause, including this paragraph (e), in all subcontracts which require securing telecommunications.

(End of clause)

**CONTINUATION SHEET****Reference No. of Document Being Continued**

Page 200 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

I-178 52.217-4001 SEPARATELY PRICED OPTION FOR INCREASED QUANTITY FEB/2007  
(TACOM)

(a) The Government may require the delivery of the numbered item, identified in the schedule as an option item, in the quantity and at the price stated in the schedule. This option may be exercised by the Government at any time, but in any event not later than 60 days after either (i) award or, if FAT is required, (ii) after FAT approval. In addition, such option may be exercised in increments, subject to the stated total additional quantity limitations, price(s), and the above-stated time for exercise of the option.

(b) Delivery of the items added by the exercise of this option shall continue immediately after, and at the same rate as, delivery of like items called for under this contract, unless the parties hereto otherwise agree.

(c) Additionally, prior to the expiration of the original option period identified in paragraph (a) above, the Government may seek a bilateral extension of the option period for an additional period not to exceed 90 days from the expiration date of the original option period.

[End of Clause]

I-179 52.203-13 CONTRACTOR CODE OF BUSINESS ETHICS AND CONDUCT APR/2010

(a) Definitions. As used in this clause--

"Agent" means any individual, including a director, an officer, an employee, or an independent Contractor, authorized to act on behalf of the organization.

"Full cooperation"--

(1) Means disclosure to the Government of the information sufficient for law enforcement to identify the nature and extent of the offense and the individuals responsible for the conduct. It includes providing timely and complete response to Government auditors and investigators' request for documents and access to employees with information;

(2) Does not foreclose any Contractor rights arising in law, the FAR, or the terms of the contract. It does not require--

(i) A Contractor to waive its attorney-client privilege or the protections afforded by the attorney work product doctrine; or

(ii) Any officer, director, owner, or employee of the Contractor, including a sole proprietor, to waive his or her attorney client privilege or Fifth Amendment rights; and

(3) Does not restrict a Contractor from--

(i) Conducting an internal investigation; or

(ii) Defending a proceeding or dispute arising under the contract or related to a potential or disclosed violation.

"Principal" means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a division or business segment; and similar positions).

"Subcontract" means any contract entered into by a subcontractor to furnish supplies or services for performance of a prime contract or a subcontract.

"Subcontractor" means any supplier, distributor, vendor, or firm that furnished supplies or services to or for a prime contractor or another subcontractor.

"United States," means the 50 States, the District of Columbia, and outlying areas.

(b) Code of business ethics and conduct.

**Name of Offeror or Contractor:**

(1) Within 30 days after contract award, unless the Contracting Officer establishes a longer time period, the Contractor shall--

(i) Have a written code of business ethics and conduct; and

(ii) Make a copy of the code available to each employee engaged in performance of the contract.

(2) The Contractor shall--

(i) Exercise due diligence to prevent and detect criminal conduct; and

(ii) Otherwise promote an organizational culture that encourages ethical conduct and a commitment to compliance with the law.

(3)(i) The Contractor shall timely disclose, in writing, to the agency Office of the Inspector General (OIG), with a copy to the Contracting Officer, whenever, in connection with the award, performance, or closeout of this contract or any subcontract thereunder, the Contractor has credible evidence that a principal, employee, agent, or subcontractor of the Contractor has committed--

(A) A violation of Federal criminal law involving fraud, conflict of interest, bribery, or gratuity violations found in Title 18 of the United States Code; or

(B) A violation of the civil False Claims Act (31 U.S.C. 3729-3733).

(ii) The Government, to the extent permitted by law and regulation, will safeguard and treat information obtained pursuant to the Contractors disclosure as confidential where the information has been marked confidential or proprietary by the company. To the extent permitted by law and regulation, such information will not be released by the Government to the public pursuant to a Freedom of Information Act request, 5 U.S.C. Section 552, without prior notification to the Contractor. The Government may transfer documents provided by the Contractor to any department or agency within the Executive Branch if the information relates to matters within the organizations jurisdiction.

(iii) If the violation relates to an order against a Governmentwide acquisition contract, a multi-agency contract, a multiple-award schedule contract such as the Federal Supply Schedule, or any other procurement instrument intended for use by multiple agencies, the Contractor shall notify the OIG of the ordering agency and the IG of the agency responsible for the basic contract.

(c) Business ethics awareness and compliance program and internal control system. This paragraph (c) does not apply if the Contractor has represented itself as a small business concern pursuant to the award of this contract or if this contract is for the acquisition of a commercial item as defined at FAR 2.101. The Contractor shall establish the following within 90 days after contract award, unless the Contracting Officer establishes a longer time period:

(1) An ongoing business ethics awareness and compliance program.

(i) This program shall include reasonable steps to communicate periodically and in a practical manner the Contractors standards and procedures and other aspects of the Contractors business ethics awareness and compliance program and internal control system, by conducting effective training programs and otherwise disseminating information appropriate to an individuals respective roles and responsibilities.

(ii) The training conducted under this program shall be provided to the Contractors principals and employees, and as appropriate, the Contractors agents and subcontractors.

(2) An internal control system.

(i) The Contractors internal control system shall--

(A) Establish standards and procedures to facilitate timely discovery of improper conduct in connection with Government contracts; and

(B) Ensure corrective measures are promptly instituted and carried out.

(ii) At a minimum, the Contractors internal control system shall provide for the following:

(A) Assignment of responsibility at a sufficiently high level and adequate resources to ensure effectiveness of the business ethics awareness and compliance program and internal control system.

(B) Reasonable efforts not to include an individual as a principal, whom due diligence would have exposed as having engaged in conduct that is in conflict with the Contractors code of business ethics and conduct.

**CONTINUATION SHEET****Reference No. of Document Being Continued**

Page 202 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

(C) Periodic reviews of company business practices, procedures, policies, and internal controls for compliance with the Contractors code of business ethics and conduct and the special requirements of Government contracting, including--

(1) Monitoring and auditing to detect criminal conduct;

(2) Periodic evaluation of the effectiveness of the business ethics awareness and compliance program and internal control system, especially if criminal conduct has been detected; and

(3) Periodic assessment of the risk of criminal conduct, with appropriate steps to design, implement, or modify the business ethics awareness and compliance program and the internal control system as necessary to reduce the risk of criminal conduct identified through this process.

(D) An internal reporting mechanism, such as a hotline, which allows for anonymity or confidentiality, by which employees may report suspected instances of improper conduct, and instructions that encourage employees to make such reports.

(E) Disciplinary action for improper conduct or for failing to take reasonable steps to prevent or detect improper conduct.

(F) Timely disclosure, in writing, to the agency OIG, with a copy to the Contracting Officer, whenever, in connection with the award, performance, or closeout of any Government contract performed by the Contractor or a subcontract thereunder, the Contractor has credible evidence that a principal, employee, agent, or subcontractor of the Contractor has committed a violation of Federal criminal law involving fraud, conflict of interest, bribery, or gratuity violations found in Title 18 U.S.C. or a violation of the civil False Claims Act (31 U.S.C. 3729-3733).

(1) If a violation relates to more than one Government contract, the Contractor may make the disclosure to the agency OIG and Contracting Officer responsible for the largest dollar value contract impacted by the violation.

(2) If the violation relates to an order against a Governmentwide acquisition contract, a multi-agency contract, a multiple-award schedule contract such as the Federal Supply Schedule, or any other procurement instrument intended for use by multiple agencies, the contractor shall notify the OIG of the ordering agency and the IG of the agency responsible for the basic contract, and the respective agencies contracting officers.

(3) The disclosure requirement for an individual contract continues until at least 3 years after final payment on the contract.

(4) The Government will safeguard such disclosures in accordance with paragraph (b)(3)(ii) of this clause.

(G) Full cooperation with any Government agencies responsible for audits, investigations, or corrective actions.

(d) Subcontracts.

(1) The Contractor shall include the substance of this clause, including this paragraph (d), in subcontracts that have a value in excess of \$5,000,000 and a performance period of more than 120 days.

(2) In altering this clause to identify the appropriate parties, all disclosures of violation of the civil False Claims Act or of Federal criminal law shall be directed to the agency Office of the Inspector General, with a copy to the Contracting Officer.

(End of clause)

I-180

52.208-8

REQUIRED SOURCES FOR HELIUM AND HELIUM USAGE DATA

MAY/2014

(a) Definitions.

Bureau of Land Management, as used in this clause, means the Department of the Interior, Bureau of Land Management, Amarillo Field Office, Helium Operations, located at 801 South Fillmore Street, Suite 500, Amarillo, TX 79101-3545.

Federal helium supplier means a private helium vendor that has an in-kind crude helium sales contract with the Bureau of Land Management (BLM) and that is on the BLM Amarillo Field Offices Authorized List of Federal Helium Suppliers available via the Internet at [http://www.blm.gov/nm/st/en/fo/Amarillo\\_Field\\_Office.html](http://www.blm.gov/nm/st/en/fo/Amarillo_Field_Office.html) .

Major helium requirement means an estimated refined helium requirement greater than 200,000 standard cubic feet (scf) (measured at 14.7 pounds per square inch absolute pressure and 70 degrees Fahrenheit temperature) of gaseous helium or 7510 liters of liquid helium delivered to a helium use location per year.

(b) Requirements --

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>	<b>Page 203 of 265</b>
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD

**Name of Offeror or Contractor:**

(1) Contractors must purchase major helium requirements from Federal helium suppliers, to the extent that supplies are available.

(2) The Contractor shall provide to the Contracting Officer the following data within 10 days after the Contractor or subcontractor receives a delivery of helium from a Federal helium supplier --

(i) The name of the supplier;

(ii) The amount of helium purchased;

(iii) The delivery date(s); and

(iv) The location where the helium was used.

(c) Subcontracts --The Contractor shall insert this clause, including this paragraph (c), in any subcontract or order that involves a major helium requirement.

(End of Clause)

I-181            52.215-19            NOTIFICATION OF OWNERSHIP CHANGES            OCT/1997

(a) The Contractor shall make the following notifications in writing:

(1) When the Contractor becomes aware that a change in its ownership has occurred, or is certain to occur, that could result in changes in the valuation of its capitalized assets in the accounting records, the Contractor shall notify the Administrative Contracting Officer (ACO) within 30 days.

(2) The Contractor shall also notify the ACO within 30 days whenever changes to asset valuations or any other cost changes have occurred or are certain to occur as a result of a change in ownership.

(b) The Contractor shall --

(1) Maintain current, accurate, and complete inventory records of assets and their costs;

(2) Provide the ACO or designated representative ready access to the records upon request;

(3) Ensure that all individual and grouped assets, their capitalized values, accumulated depreciation or amortization, and remaining useful lives are identified accurately before and after each of the Contractors ownership changes; and

(4) Retain and continue to maintain depreciation and amortization schedules based on the asset records maintained before each Contractor ownership change.

(c) The Contractor shall include the substance of this clause in all subcontracts under this contract that meet the applicability requirement of FAR 15.408(k).

(End of Clause)

I-182            52.219-28            POST-AWARD SMALL BUSINESS PROGRAM REREPRESENTATION            JUL/2013

(a) Definitions. As used in this clause--

"Long-term contract" means a contract of more than five years in duration, including options. However, the term does not include contracts that exceed five years in duration because the period of performance has been extended for a cumulative period not to exceed six months under the clause at 52.217-8, Option to Extend Services, or other appropriate authority.

"Small business concern" means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR part 121 and the size standard in paragraph (c) of this clause. Such a concern is "not dominant in its field of operation" when it does not exercise a controlling or major influence on a national basis in a kind of business activity in which a number of business concerns are

**Name of Offeror or Contractor:**

primarily engaged. In determining whether dominance exists, consideration shall be given to all appropriate factors, including volume of business, number of employees, financial resources, competitive status or position, ownership or control of materials, processes, patents, license agreements, facilities, sales territory, and nature of business activity.

(b) If the Contractor represented that it was a small business concern prior to award of this contract, the Contractor shall rerepresent its size status according to paragraph (e) of this clause or, if applicable, paragraph (g) of this clause, upon the occurrence of any of the following:

(1) Within 30 days after execution of a novation agreement or within 30 days after modification of the contract to include this clause, if the novation agreement was executed prior to inclusion of this clause in the contract.

(2) Within 30 days after a merger or acquisition that does not require a novation or within 30 days after modification of the contract to include this clause, if the merger or acquisition occurred prior to inclusion of this clause in the contract.

(3) For long-term contracts

(i) Within 60 to 120 days prior to the end of the fifth year of the contract; and

(ii) Within 60 to 120 days prior to the date specified in the contract for exercising any option thereafter.

(c) The Contractor shall rerepresent its size status in accordance with the size standard in effect at the time of this rerepresentation that corresponds to the North American Industry Classification System (NAICS) code assigned to this contract. The small business size standard corresponding to this NAICS code can be found at <http://www.sba.gov/content/table-small-business-size-standards>

(d) The small business size standard for a Contractor providing a product which it does not manufacture itself, for a contract other than a construction or service contract, is 500 employees.

(e) Except as provided in paragraph (g) of this clause, the Contractor shall make the representation required by paragraph (b) of this clause by validating or updating all its representations in the Representations and Certifications section of the System for Award Management (SAM) and its other data in SAM, as necessary, to ensure that they reflect the Contractor's current status. The Contractor shall notify the contracting office in writing within the timeframes specified in paragraph (b) of this clause that the data have been validated or updated, and provide the date of the validation or update.

(f) If the Contractor represented that it was other than a small business concern prior to award of this contract, the Contractor may, but is not required to, take the actions required by paragraphs (e) or (g) of this clause.

(g) If the Contractor does not have representations and certifications in SAM, or does not have a representation in SAM for the NAICS code applicable to this contract, the Contractor is required to complete the following rerepresentation and submit it to the contracting office, along with the contract number and the date on which the rerepresentation was completed:

The Contractor represents that it [ ] is, [ ] is not a small business concern under NAICS Code \_\_\_\_\_ assigned to contract number \_\_\_\_\_. [Contractor to sign and date and insert authorized signer's name and title].

(End of clause)

I-183 52.219-9 (DEV SMALL BUSINESS SUBCONTRACTING PLAN (DEVIATION 2013-00014)

AUG/2013

(a) This clause does not apply to small business concerns.

(b) Definitions. As used in this clause--

"Alaska Native Corporation (ANC)" means any Regional Corporation, Village Corporation, Urban Corporation, or Group Corporation organized under the laws of the State of Alaska in accordance with the Alaska Native Claims Settlement Act, as amended (43 U.S.C. 1601, et seq.) and which is considered a minority and economically disadvantaged concern under the criteria at 43 U.S.C. 1626(e)(1). This definition also includes ANC direct and indirect subsidiary corporations, joint ventures, and partnerships that meet the requirements of 43 U.S.C. 1626(e)(2).

"Commercial item" means a product or service that satisfies the definition of commercial item in section 2.101 of the Federal Acquisition Regulation.

**Name of Offeror or Contractor:**

"Commercial plan" means a subcontracting plan (including goals) that covers the offerors fiscal year and that applies to the entire production of commercial items sold by either the entire company or a portion thereof (e.g., division, plant, or product line).

"Electronic Subcontracting Reporting System (eSRS)" means the Governmentwide, electronic, web-based system for small business subcontracting program reporting. The eSRS is located at <http://www.esrs.gov>.

"Indian tribe" means any Indian tribe, band, group, pueblo, or community, including native villages and native groups (including corporations organized by Kenai, Juneau, Sitka, and Kodiak) as defined in the Alaska Native Claims Settlement Act (43 U.S.C.A. 1601 et seq.), that is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs in accordance with 25 U.S.C. 1452(c). This definition also includes Indian-owned economic enterprises that meet the requirements of 25 U.S.C. 1452(e).

"Individual contract plan" means a subcontracting plan that covers the entire contract period (including option periods), applies to a specific contract, and has goals that are based on the offerors planned subcontracting in support of the specific contract, except that indirect costs incurred for common or joint purposes may be allocated on a prorated basis to the contract.

"Master plan" means a subcontracting plan that contains all the required elements of an individual contract plan, except goals, and may be incorporated into individual contract plans, provided the master plan has been approved.

"Subcontract" means any agreement (other than one involving an employer-employee relationship) entered into by a Federal Government prime Contractor or subcontractor calling for supplies or services required for performance of the contract or subcontract.

(c) The offeror, upon request by the Contracting Officer, shall submit and negotiate a subcontracting plan, where applicable, that separately addresses subcontracting with small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business concerns, small disadvantaged business, and women-owned small business concerns. If the offeror is submitting an individual contract plan, the plan must separately address subcontracting with small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns, with a separate part for the basic contract and separate parts for each option (if any). The plan shall be included in and made a part of the resultant contract. The subcontracting plan shall be negotiated within the time specified by the Contracting Officer. Failure to submit and negotiate the subcontracting plan shall make the offeror ineligible for award of a contract.

(d) The offerors subcontracting plan shall include the following:

(1) Goals, expressed in terms of percentages of total planned subcontracting dollars, for the use of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns as subcontractors. The offeror shall include all sub-contracts that contribute to contract performance, and may include a proportionate share of products and services that are normally allocated as indirect costs. In accordance with 43 U.S.C. 1626:

(i) Subcontracts awarded to an ANC or Indian tribe shall be counted towards the subcontracting goals for small business and small disadvantaged business (SDB) concerns, regardless of the size or Small Business Administration certification status of the ANC or Indian tribe.

(ii) Where one or more subcontractors are in the subcontract tier between the prime contractor and the ANC or Indian tribe, the ANC or Indian tribe shall designate the appropriate contractor(s) to count the subcontract towards its small business and small disadvantaged business subcontracting goals.

(A) In most cases, the appropriate Contractor is the Contractor that awarded the subcontract to the ANC or Indian tribe.

(B) If the ANC or Indian tribe designates more than one Contractor to count the subcontract toward its goals, the ANC or Indian tribe shall designate only a portion of the total subcontract award to each Contractor. The sum of the amounts designated to various Contractors cannot exceed the total value of the subcontract.

(C) The ANC or Indian tribe shall give a copy of the written designation to the Contracting Officer, the prime Contractor, and the subcontractors in between the prime Contractor and the ANC or Indian tribe within 30 days of the date of the subcontract award.

(D) If the Contracting Officer does not receive a copy of the ANCs or the Indian tribes written designation within 30 days of the subcontract award, the Contractor that awarded the subcontract to the ANC or Indian tribe will be considered the designated Contractor.

(2) A statement of--

(i) Total dollars planned to be subcontracted for an individual contract plan; or the offerors total projected sales, expressed in dollars, and the total value of projected subcontracts to support the sales for a commercial plan;

(ii) Total dollars planned to be subcontracted to small business concerns (including ANC and Indian tribes);

(iii) Total dollars planned to be subcontracted to veteran-owned small business concerns;

**Name of Offeror or Contractor:**

(iv) Total dollars planned to be subcontracted to service-disabled veteran-owned small business;

(v) Total dollars planned to be subcontracted to HUBZone small business concerns;

(vi) Total dollars planned to be subcontracted to small disadvantaged business concerns (including ANCs and Indian tribes); and

(vii) Total dollars planned to be subcontracted to women-owned small business concerns.

(3) A description of the principal types of supplies and services to be subcontracted, and an identification of the types planned for subcontracting to--

(i) Small business concerns;

(ii) Veteran-owned small business concerns;

(iii) Service-disabled veteran-owned small business concerns;

(iv) HUBZone small business concerns;

(v) Small disadvantaged business concerns; and

(vi) Women-owned small business concerns.

(4) A description of the method used to develop the subcontracting goals in paragraph (d)(1) of this clause.

(5) A description of the method used to identify potential sources for solicitation purposes (e.g., existing company source lists, the System for Award Management (SAM), veterans service organizations, the National Minority Purchasing Council Vendor Information Service, the Research and Information Division of the Minority Business Development Agency in the Department of Commerce, or small, HUBZone, small disadvantaged, and women-owned small business trade associations). A firm may rely on the information contained in SAM as an accurate representation of a concern's size and ownership characteristics for the purposes of maintaining a small, veteran-owned small, service-disabled veteran-owned small, HUBZone small, small disadvantaged, and women-owned small business source list. Use of SAM as its source list does not relieve a firm of its responsibilities (e.g., outreach, assistance, counseling, or publicizing subcontracting opportunities) in this clause.

(6) A statement as to whether or not the offeror included indirect costs in establishing subcontracting goals, and a description of the method used to determine the proportionate share of indirect costs to be incurred with--

(i) Small business concerns (including ANC and Indian tribes);

(ii) Veteran-owned small business concerns;

(iii) Service-disabled veteran-owned small business concerns;

(iv) HUBZone small business concerns;

(v) Small disadvantaged business concerns (including ANC and Indian tribes); and

(vi) Women-owned small business concerns.

(7) The name of the individual employed by the offeror who will administer the offerors subcontracting program, and a description of the duties of the individual.

(8) A description of the efforts the offeror will make to assure that small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns have an equitable opportunity to compete for subcontracts.

(9) Assurances that the offeror will include the clause of this contract entitled "Utilization of Small Business Concerns" in all subcontracts that offer further subcontracting opportunities, and that the offeror will require all subcontractors (except small business concerns) that receive subcontracts in excess of \$650,000 (\$1.5 million for construction of any public facility) with further subcontracting possibilities to adopt a subcontracting plan that complies with the requirements of this clause.

(10) Assurances that the offeror will--

(i) Cooperate in any studies or surveys as may be required;

**Name of Offeror or Contractor:**

(ii) Submit periodic reports so that the Government can determine the extent of compliance by the offeror with the subcontracting plan;

(iii) Submit the Individual Subcontract Report (ISR) and/or the Summary Subcontract Report (SSR), in accordance with paragraph (1) of this clause using the Electronic Subcontracting Reporting System (eSRS) at <http://www.esrs.gov>. The reports shall provide information on subcontract awards to small business concerns (including ANCs and Indian tribes that are not small businesses), veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns (including ANCs and Indian tribes that have not been certified by the Small Business Administration as small disadvantaged businesses), women-owned small business concerns, and Historically Black Colleges and Universities and Minority Institutions. Reporting shall be in accordance with this clause, or as provided in agency regulations;

(iv) Ensure that its subcontractors with subcontracting plans agree to submit the ISR and/or the SSR using eSRS;

(v) Provide its prime contract number, its DUNS number, and the e-mail address of the offerors official responsible for acknowledging receipt of or rejecting the ISRs, to all first-tier subcontractors with subcontracting plans so they can enter this information into the eSRS when submitting their ISRs; and

(vi) Require that each subcontractor with a subcontracting plan provide the prime contract number, its own DUNS number, and the e-mail address of the subcontractors official responsible for acknowledging receipt of or rejecting the ISRs, to its subcontractors with subcontracting plans.

(11) A description of the types of records that will be maintained concerning procedures that have been adopted to comply with the requirements and goals in the plan, including establishing source lists; and a description of the offerors efforts to locate small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns and award subcontracts to them. The records shall include at least the following (on a plant-wide or company-wide basis, unless otherwise indicated):

(i) Source lists (e.g., SAM), guides, and other data that identify small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns.

(ii) Organizations contacted in an attempt to locate sources that are small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, or women-owned small business concerns.

(iii) Records on each subcontract solicitation resulting in an award of more than \$150,000, indicating--

(A) Whether small business concerns were solicited and, if not, why not;

(B) Whether veteran-owned small business concerns were solicited and, if not, why not;

(C) Whether service-disabled veteran-owned small business concerns were solicited and, if not, why not;

(D) Whether HUBZone small business concerns were solicited and, if not, why not;

(E) Whether small disadvantaged business concerns were solicited and, if not, why not;

(F) Whether women-owned small business concerns were solicited and, if not, why not; and

(G) If applicable, the reason award was not made to a small business concern.

(iv) Records of any outreach efforts to contact--

(A) Trade associations;

(B) Business development organizations;

(C) Conferences and trade fairs to locate small, HUBZone small, small disadvantaged, and women-owned small business sources; and

(D) Veterans service organizations.

(v) Records of internal guidance and encouragement provided to buyers through

(A) Workshops, seminars, training, etc.; and

(B) Monitoring performance to evaluate compliance with the programs requirements.

**Name of Offeror or Contractor:**

(vi) On a contract-by-contract basis, records to support award data submitted by the offeror to the Government, including the name, address, and business size of each subcontractor. Contractors having commercial plans need not comply with this requirement.

(e) In order to effectively implement this plan to the extent consistent with efficient contract performance, the Contractor shall perform the following functions:

(1) Assist small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns by arranging solicitations, time for the preparation of bids, quantities, specifications, and delivery schedules so as to facilitate the participation by such concerns. Where the Contractors lists of potential small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business subcontractors are excessively long, reasonable effort shall be made to give all such small business concerns an opportunity to compete over a period of time.

(2) Provide adequate and timely consideration of the potentialities of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns in all "make-or-buy" decisions.

(3) Counsel and discuss subcontracting opportunities with representatives of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business firms.

(4) Confirm that a subcontractor representing itself as a HUBZone small business concern is identified as a certified HUBZone small business concern by accessing the SAM database or by contacting SBA.

(5) Provide notice to subcontractors concerning penalties and remedies for misrepresentations of business status as small, veteran-owned small business, HUBZone small, small disadvantaged, or women-owned small business for the purpose of obtaining a subcontract that is to be included as part or all of a goal contained in the Contractors subcontracting plan.

(6) For all competitive subcontracts over the simplified acquisition threshold in which a small business concern received a small business preference, upon determination of the successful subcontract offeror, the Contractor must inform each unsuccessful small business subcontract offeror in writing of the name and location of the apparent successful offeror prior to award of the contract.

(f) A master plan on a plant or division-wide basis that contains all the elements required by paragraph (d) of this clause, except goals, may be incorporated by reference as a part of the subcontracting plan required of the offeror by this clause; provided--

(1) The master plan has been approved;

(2) The offeror ensures that the master plan is updated as necessary and provides copies of the approved master plan, including evidence of its approval, to the Contracting Officer; and

(3) Goals and any deviations from the master plan deemed necessary by the Contracting Officer to satisfy the requirements of this contract are set forth in the individual subcontracting plan.

(g) A commercial plan is the preferred type of subcontracting plan for contractors furnishing commercial items. The commercial plan shall relate to the offerors planned subcontracting generally, for both commercial and Government business, rather than solely to the Government contract. Once the Contractors commercial plan has been approved, the Government will not require another subcontracting plan from the same Contractor while the plan remains in effect, as long as the product or service being provided by the Contractor continues to meet the definition of a commercial item. A Contractor with a commercial plan shall comply with the reporting requirements stated in paragraph (d)(10) of this clause by submitting one SSR in eSRS for all contracts covered by its commercial plan. This report shall be acknowledged or rejected in eSRS by the Contracting Officer who approved the plan. This report shall be submitted within 30 days after the end of the Governments fiscal year.

(h) Prior compliance of the offeror with other such subcontracting plans under previous contracts will be considered by the Contracting Officer in determining the responsibility of the offeror for award of the contract.

(i) A contract may have no more than one plan. When a modification meets the criteria in 19.702 for a plan, or an option is exercised, the goals associated with the modification or option shall be added to those in the existing subcontract plan.

(j) Subcontracting plans are not required from subcontractors when the prime contract contains the clause at 52.212-5, Contract Terms and Conditions Required to Implement Statutes or Executive Orders Commercial Items, or when the subcontractor provides a commercial item subject to the clause at 52.244-6, Subcontracts for Commercial Items, under a prime contract.

(k) The failure of the Contractor or subcontractor to comply in good faith with--

(1) The clause of this contract entitled "Utilization Of Small Business Concerns;" or

**Name of Offeror or Contractor:**

(2) An approved plan required by this clause, shall be a material breach of the contract.

(1) The Contractor shall submit ISRs and SSRs using the web-based eSRS at <http://www.esrs.gov>. Purchases from a corporation, company, or subdivision that is an affiliate of the prime Contractor or subcontractor are not included in these reports. Subcontract award data reported by prime Contractors and subcontractors shall be limited to awards made to their immediate next-tier subcontractors. Credit cannot be taken for awards made to lower tier subcontractors, unless the Contractor or subcontractor has been designated to receive a small business or small disadvantaged business credit from an ANC or Indian Tribe. Only subcontracts involving performance in the United States or its outlying areas should be included in these reports with the exception of subcontracts under a contract awarded by the State Department or any other agency that has statutory or regulatory authority to require subcontracting plans for subcontracts performed outside the United States and its outlying areas.

(1) ISR. This report is not required for commercial plans. The report is required for each contract containing an individual subcontract plan.

(i) The report shall be submitted semi-annually during contract performance for the periods ending March 31 and September 30. A report is also required for each contract within 30 days of contract completion. Reports are due 30 days after the close of each reporting period, unless otherwise directed by the Contracting Officer. Reports are required when due, regardless of whether there has been any subcontracting activity since the inception of the contract or the previous reporting period.

(ii) When a subcontracting plan contains separate goals for the basic contract and each option, as prescribed by FAR 19.704(c), the dollar goal inserted on this report shall be the sum of the base period through the current option; for example, for a report submitted after the second option is exercised, the dollar goal would be the sum of the goals for the basic contract, the first option, and the second option.

(iii) The authority to acknowledge receipt or reject the ISR resides--

(A) In the case of the prime Contractor, with the Contracting Officer; and

(B) In the case of a subcontract with a subcontracting plan, with the entity that awarded the subcontract.

(2) SSR.

(i) Reports submitted under individual contract plans--

(A) This report encompasses all subcontracting under prime contracts and subcontracts with the awarding agency, regardless of the dollar value of the subcontracts.

(B) The report may be submitted on a corporate, company or subdivision (e.g. plant or division operating as a separate profit center) basis, unless otherwise directed by the agency.

(C) If a prime contractor and/or subcontractor is performing work for more than one executive agency, a separate report shall be submitted to each executive agency covering only that agency's contracts, provided at least one of that agency's contracts is over \$650,000 (over \$1.5 million for construction of a public facility) and contains a subcontracting plan. For DoD, a consolidated report shall be submitted for all contracts awarded by military departments/agencies and/or subcontracts awarded by DoD prime Contractors.

(D) The consolidated SSR shall be submitted annually for the twelve month period ending September 30. The report is due 30 days after the close of the reporting period.

(E) Subcontract awards that are related to work for more than one executive agency shall be appropriately allocated.

(F) The authority to acknowledge or reject SSRs in eSRS, including SSRs submitted by subcontractors with subcontracting plans, resides with the Government agency awarding the prime contracts unless stated otherwise in the contract.

(ii) Reports submitted under a commercial plan--

(A) The report shall include all subcontract awards under the commercial plan in effect during the Government's fiscal year.

(B) The report shall be submitted annually, within thirty days after the end of the Government's fiscal year.

(C) If a Contractor has a commercial plan and is performing work for more than one executive agency, the Contractor shall specify the percentage of dollars attributable to each agency from which contracts for commercial items were received.

(D) The authority to acknowledge or reject SSRs for commercial plans resides with the Contracting Officer who approved the commercial plan.

**Name of Offeror or Contractor:**

(iii) All reports submitted at the close of each fiscal year (both individual and commercial plans) shall include a Year-End Supplementary Report for Small Disadvantaged Businesses. The report shall include subcontract awards, in whole dollars, to small disadvantaged business concerns by North American Industry Classification System (NAICS) Industry Subsector. If the data are not available when the year-end SSR is submitted, the prime Contractor and/or subcontractor shall submit the Year-End Supplementary Report for Small Disadvantaged Businesses within 90 days of submitting the year-end SSR. For a commercial plan, the Contractor may obtain from each of its subcontractors a predominant NAICS Industry Subsector and report all awards to that subcontractor under its predominant NAICS Industry Subsector.

(End of clause)

I-184 52.223-3 HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA JAN/1997

(a) Hazardous material, as used in this clause, includes any material defined as hazardous under the latest version of Federal Standard No. 313 (including revisions adopted during the term of the contract).

(b) The offeror must list any hazardous material, as defined in paragraph (a) of this clause, to be delivered under this contract. The hazardous material shall be properly identified and include any applicable identification number, such as National Stock Number or Special Item Number. This information shall also be included on the Material Safety Data Sheet submitted under this contract.

Material (If none, insert None)	Identification No.

(c) This list must be updated during performance of the contract whenever the Contractor determines that any other material to be delivered under this contract is hazardous.

(d) The apparently successful offeror agrees to submit, for each item as required prior to award, a Material Safety Data Sheet, meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous material identified in paragraph (b) of this clause. Data shall be submitted in accordance with Federal Standard No. 313, whether or not the apparently successful offeror is the actual manufacturer of these items. Failure to submit the Material Safety Data Sheet prior to award may result in the apparently successful offeror being considered nonresponsible and ineligible for award.

(e) If, after award, there is a change in the composition of the item(s) or a revision to Federal Standard No. 313, which renders incomplete or inaccurate the data submitted under paragraph (d) of this clause, the Contractor shall promptly notify the Contracting Officer and resubmit the data.

(f) Neither the requirements of this clause nor any act or failure to act by the Government shall relieve the Contractor of any responsibility or liability for the safety of Government, Contractor, or subcontractor personnel or property.

(g) Nothing contained in this clause shall relieve the Contractor from complying with applicable Federal, State, and local laws, codes, ordinances, and regulations (including the obtaining of licenses and permits) in connection with hazardous material.

(h) The Government's rights in data furnished under this contract with respect to hazardous material are as follows:

(1) To use, duplicate and disclose any data to which this clause is applicable. The purposes of this right are to --

(i) Apprise personnel of the hazards to which they may be exposed in using, handling, packaging, transporting, or disposing of hazardous materials;

(ii) Obtain medical treatment for those affected by the material; and

(iii) Have others use, duplicate, and disclose the data for the Government for these purposes.

(2) To use, duplicate, and disclose data furnished under this clause, in accordance with subparagraph (h)(1) of this clause, in precedence over any other clause of this contract providing for rights in data.

(3) The Government is not precluded from using similar or identical data acquired from other sources.

(End of Clause)

**CONTINUATION SHEET****Reference No. of Document Being Continued**

Page 211 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

I-185 52.223-11 OZONE-DEPLETING SUBSTANCES MAY/2001

(a) Definition. Ozone-depleting substance, as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR Part 82 as--

(1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or

(2) Class II, including, but not limited to hydrochlorofluorocarbons.

(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

**Warning**

Contains (or manufactured with, if applicable) \_\_\_\_\_, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

\* The Contractor shall insert the name of the substance(s).

(End of Clause)

I-186 52.230-2 COST ACCOUNTING STANDARDS MAY/2014

(a) Unless the contract is exempt under 48 CFR 9903.201-1 and 9903.201-2, the provisions of 48 CFR Part 9903 are incorporated herein by reference and the Contractor, in connection with this contract, shall

(1) (CAS-covered Contracts Only) By submission of a Disclosure Statement, disclose in writing the Contractors cost accounting practices as required by 48 CFR 9903.202-1 through 9903.202-5, including methods of distinguishing direct costs from indirect costs and the basis used for allocating indirect costs. The practices disclosed for this contract shall be the same as the practices currently disclosed and applied on all other contracts and subcontracts being performed by the Contractor and which contain a Cost Accounting Standards (CAS) clause. If the Contractor has notified the Contracting Officer that the Disclosure Statement contains trade secrets and commercial or financial information which is privileged and confidential, the Disclosure Statement shall be protected and shall not be released outside of the Government.

(2) Follow consistently the Contractors cost accounting practices in accumulating and reporting contract performance cost data concerning this contract. If any change in cost accounting practices is made for the purposes of any contract or subcontract subject to CAS requirements, the change must be applied prospectively to this contract and the Disclosure Statement must be amended accordingly. If the contract price or cost allowance of this contract is affected by such changes, adjustment shall be made in accordance with paragraph (a)(4) or (a)(5) of this clause, as appropriate.

(3) Comply with all CAS, including any modifications and interpretations indicated thereto contained in 48 CFR Part 9904, in effect on the date of award of this contract or, if the Contractor has submitted certified cost or pricing data, on the date of final agreement on price as shown on the Contractors signed certificate of current cost or pricing data. The Contractor shall also comply with any CAS (or modifications to CAS) which hereafter become applicable to a contract or subcontract of the Contractor. Such compliance shall be required prospectively from the date of applicability to such contract or subcontract.

(4)(i) (Agree to an equitable adjustment as provided in the Changes clause of this contract if the contract cost is affected by a change which, pursuant to paragraph (a)(3) of this clause, the Contractor is required to make to the Contractors established cost accounting practices.

(ii) Negotiate with the Contracting Officer to determine the terms and conditions under which a change may be made to a cost accounting practice, other than a change made under other provisions of paragraph (a)(4) of this clause; provided that no agreement may be made under this provision that will increase costs paid by the United States.

(iii) When the parties agree to a change to a cost accounting practice, other than a change under subdivision (a)(4)(i) of this clause, negotiate an equitable adjustment as provided in the Changes clause of this contract.

(5) Agree to an adjustment of the contract price or cost allowance, as appropriate, if the Contractor or a subcontractor fails to comply with an applicable Cost Accounting Standard, or to follow any cost accounting practice consistently and such failure results in any increased costs paid by the United States. Such adjustment shall provide for recovery of the increased costs to the United States, together with interest thereon computed at the annual rate established under section 6621(a)(2) of the Internal Revenue Code of 1986 (26 U.S.C. 6621(a)(2)) for such period, from the time the payment by the United States was made to the time the adjustment is effected. In no case shall the Government recover costs greater than the increased cost to the Government, in the aggregate, on the relevant

**CONTINUATION SHEET****Reference No. of Document Being Continued**

Page 212 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

contracts subject to the price adjustment, unless the Contractor made a change in its cost accounting practices of which it was aware or should have been aware at the time of price negotiations and which it failed to disclose to the Government.

(b) If the parties fail to agree whether the Contractor or a subcontractor has complied with an applicable CAS in 48 CFR 9904 or a CAS rule or regulation in 48 CFR 9903 and as to any cost adjustment demanded by the United States, such failure to agree will constitute a dispute under 41 U.S.C. chapter 71, Contract Disputes.

(c) The Contractor shall permit any authorized representatives of the Government to examine and make copies of any documents, papers, or records relating to compliance with the requirements of this clause.

(d) The Contractor shall include in all negotiated subcontracts which the Contractor enters into, the substance of this clause, except paragraph (b), and shall require such inclusion in all other subcontracts, of any tier, including the obligation to comply with all CAS in effect on the subcontractors award date or if the subcontractor has submitted certified cost or pricing data, on the date of final agreement on price as shown on the subcontractors signed Certificate of Current Cost or Pricing Data. If the subcontract is awarded to a business unit which pursuant to 48 CFR 9903.201-2 is subject to other types of CAS coverage, the substance of the applicable clause set forth in subsection 30.201-4 of the Federal Acquisition Regulation shall be inserted. This requirement shall apply only to negotiated subcontracts in excess of \$700,000, except that the requirement shall not apply to negotiated subcontracts otherwise exempt from the requirement to include a CAS clause as specified in 48 CFR 9903.201-1.

(End of clause)

I-187 52.234-1 INDUSTRIAL RESOURCES DEVELOPED UNDER DEFENSE PRODUCTION ACT TITLE III DEC/1994

(a) Definitions. Title III industrial resource means materials, services, processes, or manufacturing equipment (including the processes, technologies, and ancillary services for the use of such equipment) established or maintained under the authority of Title III, Defense Production Act (50 U.S.C. App. 2091-2093).

Title III project contractor means a contractor that has received assistance for the development or manufacture of an industrial resource under 50 U.S.C. App. 2091-2093, Defense Production Act.

(b) The Contractor shall refer any request from a Title III project contractor for testing and qualification of a Title III industrial resource to the Contracting Officer.

(c) Upon the direction of the Contracting Officer, the Contractor shall test Title III industrial resources for qualification. The Contractor shall provide the test results to the Defense Production Act Office, Title III Program, located at Wright Patterson Air Force Base, Ohio 45433-7739.

(d) When the Contracting Officer modifies the contract to direct testing pursuant to this clause, the Government will provide the Title III industrial resource to be tested and will make an equitable adjustment in the contract for the costs of testing and qualification of the Title III industrial resource.

(e) The Contractor agrees to insert the substance of this clause, including paragraph (e), in every subcontract issued in performance of this contract.

I-188 52.252-2 CLAUSES INCORPORATED BY REFERENCE FEB/1998

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address:

<http://www.acq.osd.mil/dpap/dars/far.html> or <http://www.acq.osd.mil/dpap/dars/index.htm> or <http://farsite.hill.af.mil/VFAFARA.HTM>

(End of Clause)

I-189 52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES APR/1984

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized

**Name of Offeror or Contractor:**

deviation is indicated by the addition of (DEVIATION) after the date of the clause.

(b) The use in this solicitation or contract of any DoD FAR SUPPLEMENT (48 CFR 2) clause with an authorized deviation is indicated by the addition of (DEVIATION) after the name of the regulation.

(End of Clause)

I-190            252.208-7000            INTENT TO FURNISH PRECIOUS METALS AS GOVERNMENT-FURNISHED MATERIAL            DEC/1991

(a) The Government intends to furnish precious metals required in the manufacture of items to be delivered under the contract if the Contracting Officer determines it to be in the Government's best interest. The use of Government-furnished silver is mandatory when the quantity required is one hundred troy ounces or more. The precious metal(s) will be furnished pursuant to the Government Furnished Property clause of the contract.

(b) The Offeror shall cite the type (silver, gold, platinum, palladium, iridium, rhodium, and ruthenium) and quantity in whole troy ounces of precious metals required in the performance of this contract (including precious metals required for any first article or production sample), and shall specify the national stock number (NSN) and nomenclature, if known, of the deliverable item requiring precious metals.

Precious Metal*	Quantity	Deliverable Item (NSN and Nomenclature)

\*If platinum or palladium, specify whether sponge or granules are required.

(c) Offerors shall submit two prices for each deliverable item which contains precious metals--one based on the Government furnishing precious metals, and one based on the Contractor furnishing precious metals. Award will be made on the basis which is in the best interest of the Government.

(d) The Contractor agrees to insert this clause, including this paragraph (d), in solicitations for subcontracts and purchase orders issued in performance of this contract, unless the Contractor knows that the item being purchased contains no precious metals.

(End of clause)

I-191            252.219-7003            SMALL BUSINESS SUBCONTRACTING PLAN (DOD CONTRACTS) (DEVIATION 2013-            AUG/2013  
                           (DEV 2013-            00014)  
                           00014)

This clause supplements the Federal Acquisition Regulation 52.219-9, Small Business Subcontracting Plan, clause of this contract.

(a) Definitions. As used in this clause--

"Historically black colleges and universities," means institutions determined by the Secretary of Education to meet the requirements of 34 CFR Section 608.2. The term also means any nonprofit research institution that was an integral part of such a college or university before November 14, 1986.

"Minority institutions," means institutions meeting the requirements of Section 1046(3) of the Higher Education Act of 1965 (20 U.S.C. 1135d-5(3)). The term also includes Hispanic-serving institutions as defined in Section 316(b)(1) of such Act (20 U.S.C. 1059c(b)(1)).

"Summary Subcontract Report (SSR) Coordinator," means the individual who is registered in eSRS at the Department of Defense (9700).

**Name of Offeror or Contractor:**

(b) Except for company or division-wide commercial items subcontracting plans, the term "small disadvantaged business," when used in the FAR 52.219-9 clause, includes historically black colleges and universities and minority institutions, in addition to small disadvantaged business concerns.

(c) Work under the contract or its subcontracts shall be credited toward meeting the small disadvantaged business concern goal required by paragraph (d) of the FAR 52.219-9 clause when:

- (1) It is performed on Indian lands or in joint venture with an Indian Tribe or a Tribally-owned corporation, and
- (2) It meets the requirements of 10 U.S.C. 2323a.

(d) Subcontracts awarded to workshops approved by the Committee for Purchase from People Who are Blind or Severely Disabled (41 U.S.C. 8502-8504), may be counted toward the Contractor's small business subcontracting goal.

(e) A mentor firm, under the Pilot Mentor-Protege Program established under section 831 of Public Law 101-510, as amended, may count toward its small disadvantaged business goal, subcontracts awarded--

- (1) Protege firms which are qualified organizations employing the severely disabled; and
- (2) Former protege firms that meet the criteria in Section 831(g)(4) of Public Law 101-510.

(f) The master plan is approved by the Contractor's cognizant contract administration activity.

(g) In those subcontracting plans which specifically identify small businesses, the Contractor shall notify the Administrative Contracting Officer of any substitutions of firms that are not small business firms, for the small business firms specifically identified in the subcontracting plan. Notifications shall be in writing and shall occur within a reasonable period of time after award of the subcontract. Contractor-specified formats shall be acceptable.

(h)(1) For DoD, the Contractor shall submit reports in eSRS as follows:

(i) The Individual Subcontract Report (ISR) shall be submitted to the contracting officer at the procuring contracting office, even when contract administration has been delegated to the Defense Contract Management Agency.

(ii) To submit the consolidated SSR for an individual subcontracting plan in eSRS, the contractor identifies the Government Agency in Block 7 (Agency to which the report is being submitted) by selecting the Department of Defense (DoD) (9700) from the top of the second dropdown menu. Do not select anything lower.

(2) For DoD, the authority to acknowledge receipt or reject reports in eSRS is as follows:

(i) The authority to acknowledge receipt or reject the ISR resides with the contracting officer who receives it, as described in paragraph (h)(1)(i) of this clause.

(ii) The authority to acknowledge receipt or reject SSRs in eSRS resides with the SSR Coordinator.

(End of clause)

I-192 252.223-7001 HAZARD WARNING LABELS

DEC/1991

(a) Hazardous material, as used in this clause, is defined in the Hazardous Material Identification and Material Safety Data clause of this contract.

(b) The Contractor shall label the item package (unit container) of any hazardous material to be delivered under this contract in accordance with the Hazard Communication Standard (29 CFR 1910.1200 et seq). The Standard requires that the hazard warning label conform to the requirements of the standard unless the material is otherwise subject to the labeling requirements of one of the following statutes:

- (1) Federal Insecticide, Fungicide and Rodenticide Act;
- (2) Federal Food, Drug and Cosmetics Act;
- (3) Consumer Product Safety Act;
- (4) Federal Hazardous Substances Act; or

**Name of Offeror or Contractor:**

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(5) Federal Alcohol Administration Act.

(c) The Offeror shall list which hazardous material listed in the Hazardous Material Identification and Material Safety Data clause of this contract will be labeled in accordance with one of the Acts in paragraphs (b)(1) through (5) of this clause instead of the Hazard Communication Standard. Any hazardous material not listed will be interpreted to mean that a label is required in accordance with the Hazard Communication Standard.

MATERIAL (If None, Insert None.)	ACT

(d) The apparently successful Offeror agrees to submit, before award, a copy of the hazard warning label for all hazardous materials not listed in paragraph (c) of this clause. The Offeror shall submit the label with the Material Safety Data Sheet being furnished under the Hazardous Material Identification and Material Safety Data clause of this contract.

(e) The Contractor shall also comply with MIL-STD-129, Marking for Shipment and Storage (including revisions adopted during the term of this contract).

(End of clause)

I-193      52.204-4009      MANDATORY USE OF CONTRACTOR TO GOVERNMENT ELECTRONIC COMMUNICATION      MAR/2005

(a) All references in the contract to the submission of written documentation shall mean electronic submission. All electronic submissions shall be in the formats and media described in the website:

<http://contracting.tacom.army.mil/acqinfo/ebidnotice.htm>

(b) This shall include all written unclassified communications between the Government and the Contractor except contract awards and contract modifications which shall be posted on the internet. Return receipt shall be used if a commercial application is available. Classified information shall be handled in full accordance with the appropriate security requirements.

(c) In order to be contractually binding, all Government communications requiring a Contracting Officer signature must be sent from the Contracting Officer's e-mail address. The Contractor shall designate the personnel with signature authority who can contractually bind the contractor. All binding contractor communication shall be sent from this contractor e-mail address(es).

(d) Upon award, the Contractor shall provide the Contracting Officer with a list of e-mail addresses for all administrative and technical personnel assigned to this contract.

(e) Unless exempted by the Procuring Contracting Officer in writing, all unclassified written communication after contract award shall be transmitted electronically.

[End of Clause]

I-194      52.219-4070      PILOT MENTOR-PROTEGE PROGRAM      APR/2006

(a) The Pilot Mentor-Protege Program does not apply to small business concerns.

(b) Utilization of the Pilot Mentor-Protege Program (hereafter referred to as the Program) is encouraged. Under the Program, eligible companies approved as mentor firms enter into a mentor-protege agreement with eligible protege firms. The goal of the program is to provide appropriate developmental assistance to enhance the capabilities of the protege firm. The Mentor firm may be eligible for cost reimbursement or credit against their applicable subcontracting goals.

(c) Mentor firms are encouraged to identify and select concerns that are defined as emerging small business concerns, small disadvantaged business, women-owned small business, HUBZone small business, service-disabled veteran-owned small business, veteran-owned small business or an eligible entity employing the severely disabled.

(d) Full details of the program are located at [http://www.acq.osd.mil/sadbu/mentor\\_protege/](http://www.acq.osd.mil/sadbu/mentor_protege/)

or

**Name of Offeror or Contractor:**

<http://sellingtoarmy.info/User/ShowPage.aspx?SectionID=12>

(e) For additional questions after reviewing the information provided, contact the Office of Small Business Programs serving your area.

[End of Clause]

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**CONTINUATION SHEET**

**Reference No. of Document Being Continued**

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

SECTION J - LIST OF ATTACHMENTS

<u>List of Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number of Pages</u>	<u>Transmitted By</u>
Exhibit A	CONTRACT DATA REQUIREMENTS LIST A	18-JUN-2014	001	EMAIL
Exhibit B	CONTRACT DATA REQUIREMENTS LIST B	18-JUN-2014	001	EMAIL
Exhibit C	CONTRACT DATA REQUIREMENTS LIST C	18-JUN-2014	001	EMAIL
Exhibit D	CONTRACT DATA REQUIREMENTS LIST D	18-JUN-2014	001	EMAIL
Exhibit E	CONTRACT DATA REQUIREMENTS LIST E	18-JUN-2014	001	EMAIL
Attachment 0001	PURCHASE DESCRIPTION	18-JUN-2014	001	MAIL
Attachment 0002	IMP	18-JUN-2014	003	EMAIL
Attachment 0003	DD 254	18-JUN-2014	008	EMAIL
Attachment 0004	CSDR (DD FORM 2794)	18-JUN-2014	002	EMAIL
Attachment 0005	FUNDS MAN-HOUR EXPENDITURE REPORT	18-JUN-2014	002	EMAIL
Attachment 0006	WEIGHT DIMENSIONS MATRIX	18-JUN-2014	002	EMAIL
Attachment 0007	MYP ESTIMATE	18-JUN-2014	008	EMAIL
Attachment 0008	IMS CSV FORMAT	18-JUN-2014	003	EMAIL
Attachment 0009	MRA GUIDE	18-JUN-2014	001	EMAIL
Attachment 0010	84 KEY SUBSYSTEMS AND DESIGN MARGINS	18-JUN-2014	003	EMAIL
Attachment 0011	FUTURE C4I GROWTH	18-JUN-2014	002	EMAIL
Attachment 0012	MANDS INPUT DATA SHEETS	18-JUN-2014	044	EMAIL
Attachment 0013	VULNERABILITY ANALYSIS INPUT DATA SHEETS	18-JUN-2014	009	EMAIL
Attachment 0014	MIL GRADE CONNECTOR WAIVER FORM	18-JUN-2014	003	EMAIL
Attachment 0015	SIL CONFIGURATION AND VERIFICATION AUDIT & SCAVA	18-JUN-2014	004	EMAIL
Attachment 0016	RISK MANAGEMENT SCORING CRITERIA AND REPORTING TEMPLATE	18-JUN-2014	004	EMAIL
Attachment 0017	PRODUCTION TECHNICAL CAD DATA	18-JUN-2014	013	EMAIL
Attachment 0018	HAZARD TRACKING LOG	18-JUN-2014	005	EMAIL
Attachment 0019	EXCEPTIONS TO HAZARDOUS MATERIALS REQUIREMENTS	18-JUN-2014	005	EMAIL
Attachment 0020	ENGINEERING CHANGE PROPOSAL (ECP)	18-JUN-2014	007	EMAIL
Attachment 0021	REQUEST FOR DEVIATION (RFD)	18-JUN-2014	004	EMAIL
Attachment 0022	INTERFACE CONTROL DOCUMENTS	18-JUN-2014	001	EMAIL
Attachment 0023	TDP1 3-19-14	18-JUN-2014	004	EMAIL
Attachment 0024	TDP2_FMTV-MODELING-STD-100T_REV_L	18-JUN-2014	174	EMAIL
Attachment 0025	WINDCHILL ECP PROCESS	18-JUN-2014	012	EMAIL
Attachment 0026	VEHICLE SPECIFICATION SHEET	18-JUN-2014	003	EMAIL
Attachment 0027	GFE_GFI LIST	18-JUN-2014	002	EMAIL
Attachment 0028	ARMY SUPPLIER RFI FORM	18-JUN-2014	003	EMAIL
Attachment 0029	AT_PLAN_TEMPLATE	18-JUN-2014	003	EMAIL
Attachment 0030	AT_TEMPLATE_INTRO	18-JUN-2014	002	EMAIL
Attachment 0031	AS-BUILT CONFIGURATION LIST (ABCL)	18-JUN-2014	001	EMAIL
Attachment 0032	CHANGE PROPOSAL PROCESS	18-JUN-2014	001	EMAIL
Attachment 0033	NEW EQUIPMENT TRAINING	18-JUN-2014	002	EMAIL
Attachment 0034	DEPROCESSING CHECKLIST	18-JUN-2014	025	EMAIL
Attachment 0035	NET PLAN	18-JUN-2014	012	EMAIL
Attachment 0036	FMECA REQUIREMENTS	18-JUN-2014	021	EMAIL
Attachment 0037	TABLE A-II (OPERATOR MATRIX)	18-JUN-2014	013	EMAIL
Attachment 0038	TABLE A-XVII (FUNCTIONALITY MATRIX)	18-JUN-2014	004	EMAIL
Attachment 0039	TABLE A-XXI (CONTENT SELECTION MATRIX)	18-JUN-2014	001	EMAIL
Attachment 0040	TABLE A-II (-13 AND -13&P)	18-JUN-2014	013	EMAIL
Attachment 0041	JLTV OPERATOR MANUAL	18-JUN-2014	002	EMAIL
Attachment 0042	TABLE A-VII (DMWR_NMWR REQUIREMENTS MATRIX)	18-JUN-2014	009	EMAIL
Attachment 0043	PROVISIONING REQUIREMENTS STATEMENT	18-JUN-2014	003	EMAIL
Attachment 0044	DATA REQUIREMENTS FORM FOR ACQUISITION REQUIREMENT PACKAGE (ARP)	18-JUN-2014	003	EMAIL
Attachment 0045	PACKAGING DATA PRODUCTS	18-JUN-2014	004	EMAIL
Attachment 0046	INCOMING TRANSACTION FORMAT	18-JUN-2014	003	EMAIL
Attachment 0047	REVISIONS AND EXCEPTIONS	18-JUN-2014	008	EMAIL
Attachment 0048	TB 9-289	18-JUN-2014	026	EMAIL
Attachment 0049	OBSERVATION CHECKLIST	18-JUN-2014	003	EMAIL
Attachment 0050	FIELDING LOCATION AND SCHEDULE	18-JUN-2014	005	EMAIL
Attachment 0051	TURN AROUND TIME METRIC	18-JUN-2014	002	EMAIL
Attachment 0052	TABLE A-XVI BDAR REQUIREMENTS MATRIX	18-JUN-2014	004	EMAIL
Attachment 0053	PRE-TRR CHECKLIST	18-JUN-2014	005	EMAIL
Attachment 0054	JLTV FDSC REV3.3A (7 AUG 2012)	18-JUN-2014	021	EMAIL

**CONTINUATION SHEET****Reference No. of Document Being Continued**

Page 218 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

<u>List of Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number of Pages</u>	<u>Transmitted By</u>
Attachment 0055	JLTV OMSMP VER 3.3 (12JAN2012)	18-JUN-2014	014	EMAIL
Attachment 0056	VEASAM 4-29-2014 RFP DRAFT RELEASE	18-JUN-2014	003	EMAIL
Attachment 0057	RAM DUTY CYCLES	18-JUN-2014	008	EMAIL
Attachment 0058	JLTV RAM FEF GUIDELINES	18-JUN-2014	003	EMAIL
Attachment 0059	WELDING STANDARDS	18-JUN-2014	002	EMAIL
Attachment 0060	ATTACHMENT 0060 OPTION ATTACHMENT	18-JUN-2014	008	EMAIL
Attachment 0061	PRIMARY TECHNICAL PERFORMANCE REQUIREMENTS LISTS	18-JUN-2014	001	EMAIL
Attachment 0062	PRIMARY TECHNICAL REQUIREMENTS WORKSHEET	18-JUN-2014	002	EMAIL
Attachment 0063	3D CAD MODELS	18-JUN-2014	001	EMAIL
Attachment 0064	PROPOSED SPEC SHEET	18-JUN-2014	001	EMAIL
Attachment 0065	SPECIFICATION SHEET	18-JUN-2014	001	EMAIL
Attachment 0066	RAM DATA SHEET	18-JUN-2014	001	EMAIL
Attachment 0067	CAB DESIGN DATA SHEET	18-JUN-2014	004	EMAIL
Attachment 0068	CREW SEATING DATA SHEET	18-JUN-2014	007	EMAIL
Attachment 0069	BLAST OR IED DATA SHEET	18-JUN-2014	008	EMAIL
Attachment 0070	PRICING MATRIX	18-JUN-2014	029	EMAIL
Attachment 0071	LCC ADJUSTMENT CALCULATOR	18-JUN-2014	006	EMAIL
Attachment 0072	TDP BOM	18-JUN-2014	025	EMAIL
Attachment 0073	TIER 1 OBJECTIVE REQUIREMENTS ADJUSTMENT	18-JUN-2014	001	EMAIL
Attachment 0074	REQUIREMENTS COMPLIANCE MATRIX	18-JUN-2014	003	EMAIL
Attachment 0075	MANUFACTURING READINESS DELIVERY SCHEDULE	18-JUN-2014	004	EMAIL
Attachment 0076	SMALL BUSINESS PARTICIPATION FACTOR WORKBOOK	18-JUN-2014	007	EMAIL
Attachment 0077	SMALL BUSINESS PARTICIPATION FACTOR WORKBOOK INSTRUCTIONS	18-JUN-2014	009	EMAIL
Attachment 0078	OBJECTIVE ADJUSTMENT SCALES (V 1.4)	18-JUN-2014	002	EMAIL
Attachment 0079	RESERVED	18-JUN-2014	001	EMAIL
Attachment 0080	RESERVED	18-JUN-2014	001	EMAIL
Attachment 0081	EMD RCM REPORT	18-JUN-2014	002	EMAIL
Attachment 0082	AIR_AAR	18-JUN-2014	005	EMAIL
Attachment 0083	JLTV FOV MASTER TASK LIST	18-JUN-2014	016	EMAIL

**CONTINUATION SHEET**

**Reference No. of Document Being Continued**

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

SECTION K - REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
K-1	52.204-7	SYSTEM FOR AWARD MANAGEMENT	JUL/2013
K-2	52.225-20	PROHIBITION ON CONDUCTING RESTRICTED BUSINESS OPERATIONS IN SUDAN-- CERTIFICATION	AUG/2009
K-3	52.225-25	PROHIBITION ON CONTRACTING WITH ENTITIES ENGAGING IN SANCTIONED ACTIVITIES RELATING TO IRAN--REPRESENTATION AND CERTIFICATION	DEC/2012
K-4	252.203-7005	REPRESENTATION RELATING TO COMPENSATION OF FORMER DOD OFFICIALS	NOV/2011
K-5	252.209-7001	DISCLOSURE OF OWNERSHIP OR CONTROL BY THE GOVERNMENT OF A TERRORIST COUNTRY	JAN/2009
K-6	252.209-7002	DISCLOSURE OF OWNERSHIP OR CONTROL BY A FOREIGN GOVERNMENT	JUN/2010
K-7	252.225-7031	SECONDARY ARAB BOYCOTT OF ISRAEL	JUN/2005
K-8	252.227-7017	IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS	JAN/2011
K-9	252.227-7028	TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT	JUN/1995
K-10	52.204-8	ANNUAL REPRESENTATIONS AND CERTIFICATIONS	MAY/2014

(a)(1) The North American Industry Classification System (NAICS) code for this acquisition is -1-.

(2) The small business size standard is -2-.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b)(1) If the provision at 52.204-7, System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.

(2) If the provision at 52.204-7 is not included in this solicitation, and the offeror is currently registered in the System for Award Management (SAM), and has completed the Representations and Certifications section of SAM electronically, the offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:

(i) Paragraph (d) applies.

(ii) Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c)(1) The following representations or certifications in SAM are applicable to this solicitation as indicated:

(i) 52.203-2, Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless--

(A) The acquisition is to be made under the simplified acquisition procedures in Part 13;

(B) The solicitation is a request for technical proposals under two-step sealed bidding procedures; or

(C) The solicitation is for utility services for which rates are set by law or regulation.

(ii) 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed \$150,000.

(iii) 52.204-3, Taxpayer Identification. This provision applies to solicitations that do not include the provision at 52.204-7, System for Award Management.

(iv) 52.204-5, Women-Owned Business (Other Than Small Business). This provision applies to solicitations that--

(A) Are not set aside for small business concerns;

(B) Exceed the simplified acquisition threshold; and

(C) Are for contracts that will be performed in the United States or its outlying areas.

(v) 52.209-2, Prohibition on Contracting with Inverted Domestic CorporationsRepresentation. This provision applies to solicitations

**Name of Offeror or Contractor:**

using funds appropriated in fiscal years 2008, 2009, 2010, or 2012.

(vi) 52.209-5, Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.

(vii) 52.214-14, Place of Performance Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.

(viii) 52.215-6, Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.

(ix) 52.219-1, Small Business Program Representations (Basic & Alternate I). This provision applies to solicitations when the contract will be performed in the United States or its outlying areas.

(A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.

(B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.

(x) 52.219-2, Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract will be performed in the United States or its outlying areas.

(xi) 52.222-22, Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at 52.222-26, Equal Opportunity.

(xii) 52.222-25, Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at 52.222-26, Equal Opportunity.

(xiii) 52.222-38, Compliance with Veterans Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial items.

(xiv) 52.223-1, Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA designated items; or include the clause at 52.223-2, Affirmative Procurement of Biobased Products Under Service and Construction Contracts.

(xv) 52.223-4, Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA designated items.

(xvi) 52.225-2, Buy American Certificate. This provision applies to solicitations containing the clause at 52.225-1.

(xvii) 52.225-4, Buy American--Free Trade Agreements--Israeli Trade Act Certificate. (Basic, Alternates I, II, and III.) This provision applies to solicitations containing the clause at 52.225-3.

(A) If the acquisition value is less than \$25,000, the basic provision applies.

(B) If the acquisition value is \$25,000 or more but is less than \$50,000, the provision with its Alternate I applies.

(C) If the acquisition value is \$50,000 or more but is less than \$79,507, the provision with its Alternate II applies.

(D) If the acquisition value is \$79,507 or more but is less than \$100,000, the provision with its Alternate III applies.

(xviii) 52.225-6, Trade Agreements Certificate. This provision applies to solicitations containing the clause at 52.225-5.

(xix) 52.225-20, Prohibition on Conducting Restricted Business Operations in Sudan Certification. This provision applies to all solicitations.

(xx) 52.225-25, Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran-Representation and Certifications. This provision applies to all solicitations.

(xxi) 52.226-2, Historically Black College or University and Minority Institution Representation. This provision applies to

(A) Solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions; and

(B) For DoD, NASA, and Coast Guard acquisitions, solicitations that contain the clause at 52.219-23, Notice of Price Evaluation

Name of Offeror or Contractor:

Adjustment for Small Disadvantaged Business Concerns.

(2) The following certifications are applicable as indicated by the Contracting Officer:

\_\_\_ (i) 52.219-22, Small Disadvantaged Business Status.

\_\_\_ (A) Basic.

\_\_\_ (B) Alternate I.

\_\_\_ (ii) 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products.

\_\_\_ (iii) 52.222-48, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Certification.

\_\_\_ (iv) 52.222-52, Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services-- Certification.

\_\_\_ (v) 52.223-9, with its Alternate I, Estimate of Percentage of Recovered Material Content for EPADesignated Products (Alternate I only).

\_\_\_ (vi) 52.227-6, Royalty Information.

\_\_\_ (A) Basic.

\_\_\_ (B) Alternate I.

\_\_\_ (vii) 52.227-15, Representation of Limited Rights Data and Restricted Computer Software.

(d) The offeror has completed the annual representations and certifications electronically via the SAM Web site accessed through https://www.acquisition.gov. After reviewing the SAM database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by clause number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR Clause #	Title	Date	Change
_____	_____	_____	_____
_____	_____	_____	_____

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

(End of provision)

K-11 252.204-7007 ALTERNATE A, ANNUAL REPRESENTATIONS AND CERTIFICATIONS MAR/2014  
Substitute the following paragraphs (d) and (e) for paragraph (d) of the provision at FAR 52.204-8:

(d)(1) The following representations or certifications in the System for Award Management (SAM) database are applicable to this solicitation as indicated:

(i) 252.209-7001, Disclosure of Ownership or Control by the Government of a Terrorist Country. Applies to all solicitations expected to result in contracts of \$150,000 or more.

(ii) 252.209-7003, Reserve Officer Training Corps and Military Recruiting on CampusRepresentation. Applies to all solicitations

**Name of Offeror or Contractor:**

with institutions of higher education.

(iii) 252.216-7008, Economic Price Adjustment Wage Rates or Material Prices Controlled by a Foreign Government. Applies to solicitations for fixed-price supply and service contracts when the contract is to be performed wholly or in part in a foreign country, and a foreign government controls wage rates or material prices and may during contract performance impose a mandatory change in wages or prices of materials.

(iv) 252.225-7042, Authorization to Perform. Applies to all solicitations when performance will be wholly or in part in a foreign country.

(v) 252.229-7012, Tax Exemptions (Italy) Representation. Applies to solicitations and contracts when contract performance will be in Italy.

(vi) 252.229-7013, Tax Exemptions (Spain) Representation. Applies to solicitations and contracts when contract performance will be in Spain.

(vii) 252.247-7022, Representation of Extent of Transportation by Sea. Applies to all solicitations except those for direct purchase of ocean transportation services or those with an anticipated value at or below the simplified acquisition threshold.

(2) The following representations or certifications in SAM are applicable to this solicitation as indicated by the Contracting Officer:

- (i) 252.209-7002, Disclosure of Ownership or Control by a Foreign Government.
- (ii) 252.225-7000, Buy American Balance of Payments Program Certificate.
- (iii) 252.225-7020, Trade Agreements Certificate.
- Use with Alternate I.
- (iv) 252.225-7031, Secondary Arab Boycott of Israel.
- (v) 252.225-7035, Buy American Free Trade Agreements Balance of Payments Program Certificate.
- Use with Alternate I.
- Use with Alternate II.
- Use with Alternate III.
- Use with Alternate IV.
- Use with Alternate V.

(e) The offeror has completed the annual representations and certifications electronically via the SAM website at <https://www.acquisition.gov/>. After reviewing the ORCA database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in FAR 52.204-8(c) and paragraph (d) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer, and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by provision number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR/DFARS Provision #	Title	Date	Change
_____	_____	_____	_____
_____	_____	_____	_____

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications located in the SAM database.

(End of provision)

**CONTINUATION SHEET**

**Reference No. of Document Being Continued**

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

K-12      52.215-4005      MINIMUM ACCEPTANCE PERIOD      OCT/1985  
(TACOM)

(a) ACCEPTANCE PERIOD, as used in this provision, means the number of calendar days available to the Government for awarding a contract from the date specified in this solicitation for receipt of offers.

(b) The Government requires a minimum acceptance period of 180 calendar days.

(c) In the space provided immediately below, offers may specify a longer acceptance period than the Government's minimum requirement.

The offeror allows the following acceptance period: \_\_\_\_\_ calendar days.

(d) An offer allowing less than the Government's minimum acceptance period may be rejected.

(End of Provision)

K-13      52.204-5      WOMEN-OWNED BUSINESS (OTHER THAN SMALL BUSINESS)      MAY/1999

(a) Definition. Women-owned business concern, as used in this provision, means a concern that is at least 51 percent owned by one or more women; or in the case of any publicly owned business, at least 51 percent of its stock is owned by one or more women; and whose management and daily business operations are controlled by one or more women.

(b) Representation. [Complete only if the offeror is a women-owned business concern and has not represented itself as a small business concern in paragraph (b)(1) of FAR 52.219-1, Small Business Program Representation, of this solicitation.] The offeror represents that it [ ] is a women-owned business concern.

(End of Provision)

K-14      52.207-4      ECONOMIC PURCHASE QUANTITY-SUPPLIES      AUG/1987

(a) Offerors are invited to state an opinion on whether the quantity(ies) of supplies on which bids, proposals or quotes are requested in this solicitation is (are) economically advantageous to the Government.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(b) Each offeror who believes that acquisitions in different quantities would be more advantageous is invited to recommend an economic purchase quantity. If different quantities are recommended, a total and a unit price must be quoted for applicable items. An economic purchase quantity is that quantity at which a significant price break occurs. If there are significant price breaks at different quantity points, this information is desired as well.

OFFEROR RECOMMENDATIONS

ITEM	QUANTITY	PRICE QUOTATION	TOTAL

(c) The information requested in this provision is being solicited to avoid acquisitions in disadvantageous quantities and to assist the Government in developing a data base for future acquisitions of these items. However, the Government reserves the right to amend or cancel the solicitation and resolicit with respect to any individual item in the event quotations received and the Governments requirements indicate that different quantities should be acquired.

**CONTINUATION SHEET****Reference No. of Document Being Continued**

Page 224 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

(End of Provision)

K-15 52.209-7 INFORMATION REGARDING RESPONSIBILITY MATTERS

JUL/2013

(a) Definitions. As used in this provision--

Administrative proceeding means a non-judicial process that is adjudicatory in nature in order to make a determination of fault or liability (e.g., Securities and Exchange Commission Administrative Proceedings, Civilian Board of Contract Appeals Proceedings, and Armed Services Board of Contract Appeals Proceedings). This includes administrative proceedings at the Federal and State level but only in connection with performance of a Federal contract or grant. It does not include agency actions such as contract audits, site visits, corrective plans, or inspection of deliverables.

Federal contracts and grants with total value greater than \$10,000,000 means--

(1) The total value of all current, active contracts and grants, including all priced options; and

(2) The total value of all current, active orders including all priced options under indefinite-delivery, indefinite-quantity, 8(a), or requirements contracts (including task and delivery and multiple-award Schedules).

Principal means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a division or business segment; and similar positions).

(b) The offeror [ ] has [ ] does not have current active Federal contracts and grants with total value greater than \$10,000,000.

(c) If the offeror checked "has" in paragraph (b) of this provision, the offeror represents, by submission of this offer, that the information it has entered in the Federal Awardee Performance and Integrity Information System (FAPIIS) is current, accurate, and complete as of the date of submission of this offer with regard to the following information:

(1) Whether the offeror, and/or any of its principals, has or has not, within the last five years, in connection with the award to or performance by the offeror of a Federal contract or grant, been the subject of a proceeding, at the Federal or State level that resulted in any of the following dispositions:

(i) In a criminal proceeding, a conviction.

(ii) In a civil proceeding, a finding of fault and liability that results in the payment of a monetary fine, penalty, reimbursement, restitution, or damages of \$5,000 or more.

(iii) In an administrative proceeding, a finding of fault and liability that results in--

(A) The payment of a monetary fine or penalty of \$5,000 or more; or

(B) The payment of a reimbursement, restitution, or damages in excess of \$100,000.

(iv) In a criminal, civil, or administrative proceeding, a disposition of the matter by consent or compromise with an acknowledgment of fault by the Contractor if the proceeding could have led to any of the outcomes specified in paragraphs (c)(1)(i), (c)(1)(ii), or (c)(1)(iii) of this provision.

(2) If the offeror has been involved in the last five years in any of the occurrences listed in (c)(1) of this provision, whether the offeror has provided the requested information with regard to each occurrence.

(d) The offeror shall post the information in paragraphs (c)(1)(i) through (c)(1)(iv) of this provision in FAPIIS as required through maintaining an active registration in the System for Award Management database via <https://www.acquisition.gov> (see 52.204-7).

Principal means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a division or business segment; and similar positions).

(End of provision)

K-16 52.225-18 PLACE OF MANUFACTURE

SEP/2006

(a) Definitions. As used in this clause

'Manufactured end product' means any end product in Federal Supply Classes (FSC) 1000-9999, except

**CONTINUATION SHEET**

Reference No. of Document Being Continued

Page 225 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

- (1) FSC 5510, Lumber and Related Basic Wood Materials;
- (2) Federal Supply Group (FSG) 87, Agricultural Supplies;
- (3) FSG 88, Live Animals;
- (4) FSG 89, Food and Related Consumables;
- (5) FSC 9410, Crude Grades of Plant Materials;
- (6) FSC 9430, Miscellaneous Crude Animal Products, Inedible;
- (7) FSC 9440, Miscellaneous Crude Agricultural and Forestry Products;
- (8) FSC 9610, Ores;
- (9) FSC 9620, Minerals, Natural and Synthetic; and
- (10) FSC 9630, Additive Metal Materials.

'Place of manufacture' means the place where an end product is assembled out of components, or otherwise made or processed from raw materials into the finished product that is to be provided to the Government. If a product is disassembled and reassembled, the place of reassembly is not the place of manufacture.

(b) For statistical purposes only, the offeror shall indicate whether the place of manufacture of the end products it expects to provide in response to this solicitation is predominantly

(1) In the United States (Check this box if the total anticipated price of offered end products manufactured in the United States exceeds the total anticipated price of offered end products manufactured outside the United States); or

(2) Outside the United States.

(End of provision)

K-17 52.230-1 COST ACCOUNTING STANDARDS NOTICES AND CERTIFICATION MAY/2012

Note: This notice does not apply to small businesses or foreign governments. This notice is in three parts, identified by Roman numerals I through III.

Offerors shall examine each part and provide the requested information in order to determine Cost Accounting Standards (CAS) requirements applicable to any resultant contract.

If the offeror is an educational institution, Part II does not apply unless the contemplated contract will be subject to full or modified CAS coverage pursuant to 48 CFR 9903.201-2(c)(5) or 9903.201-2(c)(6), respectively.

**I. Disclosure Statement Cost Accounting Practices and Certification**

(a) Any contract in excess of \$700,000 resulting from this solicitation will be subject to the requirements of the Cost Accounting Standards Board (48 CFR Chapter 99), except for those contracts which are exempt as specified in 48 CFR 9903.201-1.

(b) Any offeror submitting a proposal which, if accepted, will result in a contract subject to the requirements of 48 CFR Chapter 99 must, as a condition of contracting, submit a Disclosure Statement as required by 48 CFR 9903.202. When required, the Disclosure Statement must be submitted as a part of the offerors proposal under this solicitation unless the offeror has already submitted a Disclosure Statement disclosing the practices used in connection with the pricing of this proposal. If an applicable Disclosure Statement has already been submitted, the offeror may satisfy the requirement for submission by providing the information requested in paragraph (c) of Part I of this provision.

Caution: In the absence of specific regulations or agreement, a practice disclosed in a Disclosure Statement shall not, by virtue of such disclosure, be deemed to be a proper, approved, or agreed-to practice for pricing proposals or accumulating and reporting contract performance cost data.

(c) Check the appropriate box below:

(1) Certificate of Concurrent Submission of Disclosure Statement. The offeror hereby certifies that, as a part of the offer, copies

**CONTINUATION SHEET**

Reference No. of Document Being Continued

Page 226 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

of the Disclosure Statement have been submitted as follows:

(i) Original and one copy to the cognizant Administrative Contracting Officer (ACO) or cognizant Federal agency official authorized to act in that capacity (Federal official), as applicable; and

(ii) One copy to the cognizant Federal auditor.

(Disclosure must be on Form No. CASB DS-1 or CASB DS-2, as applicable. Forms may be obtained from the cognizant ACO or Federal official and/or from the loose-leaf version of the Federal Acquisition Regulation.)

Date of Disclosure Statement: \_\_\_\_\_

Name and Address of Cognizant ACO or Federal Official Where Filed:  
\_\_\_\_\_

The offeror further certifies that the practices used in estimating costs in pricing this proposal are consistent with the cost accounting practices disclosed in the Disclosure Statement.

(2) Certificate of Previously Submitted Disclosure Statement. The offeror hereby certifies that the required Disclosure Statement was filed as follows:

Date of Disclosure Statement: \_\_\_\_\_

Name and Address of Cognizant ACO or Federal Official Where Filed:  
\_\_\_\_\_

The offeror further certifies that the practices used in estimating costs in pricing this proposal are consistent with the cost accounting practices disclosed in the applicable Disclosure Statement.

(3) Certificate of Monetary Exemption. The offeror hereby certifies that the offeror, together with all divisions, subsidiaries, and affiliates under common control, did not receive net awards of negotiated prime contracts and subcontracts subject to CAS totaling \$50 million or more in the cost accounting period immediately preceding the period in which this proposal was submitted. The offeror further certifies that if such status changes before an award resulting from this proposal, the offeror will advise the Contracting Officer immediately.

(4) Certificate of Interim Exemption. The offeror hereby certifies that

(i) the offeror first exceeded the monetary exemption for disclosure, as defined in (3) of this subsection, in the cost accounting period immediately preceding the period in which this offer was submitted and

(ii) in accordance with 48 CFR 9903.202-1, the offeror is not yet required to submit a Disclosure Statement. The offeror further certifies that if an award resulting from this proposal has not been made within 90 days after the end of that period, the offeror will immediately submit a revised certificate to the Contracting Officer, in the form specified under paragraph (c)(1) or (c)(2) of Part I of this provision, as appropriate, to verify submission of a completed Disclosure Statement.

Caution: Offerors currently required to disclose because they were awarded a CAS-covered prime contract or subcontract of \$50 million or more in the current cost accounting period may not claim this exemption (4). Further, the exemption applies only in connection with proposals submitted before expiration of the 90-day period following the cost accounting period in which the monetary exemption was exceeded.

**II. Cost Accounting Standards Eligibility for Modified Contract Coverage**

If the offeror is eligible to use the modified provisions of 48 CFR 9903.201-2(b) and elects to do so, the offeror shall indicate by checking the box below. Checking the box below shall mean that the resultant contract is subject to the Disclosure and Consistency of Cost Accounting Practices clause in lieu of the Cost Accounting Standards clause.

The offeror hereby claims an exemption from the Cost Accounting Standards clause under the provisions of 48 CFR 9903.201-2(b) and certifies that the offeror is eligible for use of the Disclosure and Consistency of Cost Accounting Practices clause because during the cost accounting period immediately preceding the period in which this proposal was submitted, the offeror received less than \$50 million in awards of CAS-covered prime contracts and subcontracts. The offeror further certifies that if such status changes before an award resulting from this proposal, the offeror will advise the Contracting Officer immediately.

Caution: An offeror may not claim the above eligibility for modified contract coverage if this proposal is expected to result in the award of a CAS-covered contract of \$50 million or more or if, during its current cost accounting period, the offeror has been awarded a single CAS-covered prime contract or subcontract of \$50 million or more.

**III. Additional Cost Accounting Standards Applicable to Existing Contracts**

**Name of Offeror or Contractor:** \_\_\_\_\_

The offeror shall indicate below whether award of the contemplated contract would, in accordance with paragraph (a)(3) of the Cost Accounting Standards clause, require a change in established cost accounting practices affecting existing contracts and subcontracts.

Yes       No

(End of provision)

K-18      52.230-7      PROPOSAL DISCLOSURE--COST ACCOUNTING PRACTICE CHANGES      APR/2005

The offeror shall check yes below if the contract award will result in a required or unilateral change in cost accounting practice, including unilateral changes requested to be desirable changes.

Yes     No

If the offeror checked Yes above, the offeror shall--

- (1) Prepare the price proposal in response to the solicitation using the changed practice for the period of performance for which the practice will be used; and
- (2) Submit a description of the changed cost accounting practice to the Contracting Officer and the Cognizant Federal Agency Official as pricing support for the proposal.

(End of Provision)

K-19      52.247-53      FREIGHT CLASSIFICATION DESCRIPTION      APR/1984

Offerors are requested to indicate below the full Uniform Freight Classification (rail) description, or the National Motor Freight Classification description applicable to the supplies, the same as offeror uses for commercial shipment. This description should include the packing of the commodity (box, crate, bundle, loose, setup, knocked down, compressed, unwrapped, etc.), the container material (fiberboard, wooden, etc.), unusual shipping dimensions, and other conditions affecting traffic descriptions. The Government will use these descriptions as well as other information available to determine the classification description most appropriate and advantageous to the Government. Offeror understands that shipments on any f.o.b. origin contract awarded, as a result of this solicitation, will be made in conformity with the shipping classification description specified by the Government, which may be different from the classification description furnished below.

For Freight Classification Purposes, Offeror Describes This Commodity as \_\_\_\_\_.

(End of Provision)

K-20      252.209-7994      REPRESENTATION BY CORPORATIONS REGARDING AN UNPAID DELINQUENT TAX      OCT/2013  
           (DEV 2014-      LIABILITY OR A FELONY CONVICTION UNDER ANY FEDERAL LAW--FISCAL YEAR  
           00004)      2014 APPROPRIATIONS (DEV 2014-00004)

(a) In accordance with section 101(a) of Division A of the Continuing Appropriations Act, 2014 (Pub. L. 113-46), none of the funds made available by that Act for DoD (including Military Construction funds) may be used to enter into a contract with any corporation that--

(1) Has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability, where the awarding agency is aware of the unpaid tax liability, unless the agency has considered suspension or debarment of the corporation and made a determination that this further action is not necessary to protect the interests of the Government; or

(2) Was convicted of a felony criminal violation under any Federal law within the preceding 24 months, where the awarding agency is aware of the conviction, unless the agency has considered suspension or debarment of the corporation and made a determination that this action is not necessary to protect the interests of the Government.

(b) The Offeror represents that--

**CONTINUATION SHEET****Reference No. of Document Being Continued**

Page 228 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

(1) It is [ ] is not [ ] a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability,

(2) It is [ ] is not [ ] a corporation that was convicted of a felony criminal violation under a Federal law within the preceding 24 months.

(End of provision)

K-21            252.209-7999            REPRESENTATION BY CORPORATIONS REGARDING AN UNPAID DELINQUENT TAX            JAN/2012  
(DEV 2012-            LIABILITY OR A FELONY CONVICTION UNDER ANY FEDERAL LAW (DEVIATION  
00004)            2012-00004)

(a) In accordance with sections 8124 and 8125 of Division A of the Consolidated Appropriations Act, 2012, (Pub. L. 112-74) none of the funds made available by that Act may be used to enter into a contract with any corporation that--

(1) Has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability, where the awarding agency is aware of the unpaid tax liability, unless the agency has considered suspension or debarment of the corporation and made a determination that this further action is not necessary to protect the interests of the Government.

(2) Was convicted of a felony criminal violation under any Federal law within the preceding 24 months, where the awarding agency is aware of the conviction, unless the agency has considered suspension or debarment of the corporation and made a determination that this action is not necessary to protect the interests of the Government.

(b) The Offeror represents that--

(1) It is [ ] is not [ ] a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability,

(2) It is [ ] is not [ ] a corporation that was convicted of a felony criminal violation under a Federal law within the preceding 24 months.

(End of provision)

K-22            252.225-7020            TRADE AGREEMENTS CERTIFICATE            JAN/2005

(a) Definitions. Designated country end product, nondesignated country end product, qualifying country end product, and U.S.-made end product have the meanings given in the Trade Agreements clause of this solicitation.

(b) Evaluation. The Government

(1) Will evaluate offers in accordance with the policies and procedures of Part 225 of the Defense Federal Acquisition Regulation Supplement; and

(2) Will consider only offers of end products that are U.S.-made, qualifying country, or designated country end products unless

(i) There are no offers of such end products;

(ii) The offers of such end products are insufficient to fulfill the Governments requirements; or

(iii) A national interest waiver has been granted.

(c) Certification and identification of country of origin.

(1) For all line items subject to the Trade Agreements clause of this solicitation, the offeror certifies that each end product to be delivered under this contract, except those listed in paragraph (c)(2) of this provision, is a U.S.-made, qualifying country, or designated country end product.

(2) The following supplies are other nondesignated country end products:



**CONTINUATION SHEET**

**Reference No. of Document Being Continued**

**Page 230 of 265**

**PIIN/SIIN** W56HZV-14-R-0039

**MOD/AMD**

**Name of Offeror or Contractor:**

(a) The offeror shall indicate, by check mark, if one or more of the statements at (i) or (ii) below applies to this supply solicitation/contract. (Statement (ii) below must be reviewed and, if applicable, checked by all offerors, whether they themselves are or are not located in the United Kingdom (U.K.)

(i)  I AM a U.K. firm contracting in excess of \$1 million and the estimated total of levies contained in the offered price is: \$\_\_\_\_\_.

(ii)  I expect to award one or more subcontract(s) totaling over \$1 million to a U.K. vendor.

(b) The offeror shall identify each U.K. subcontractor applicable to the statement at (ii) above in the space provided below.

<u>Name</u>	<u>Address</u>	<u>Est. Value Of Subcontract</u>	<u>Est. Total of Levies Incl. In Price</u>
_____	_____	_____	_____
_____	_____	_____	_____

(c) The Government intends to secure a waiver of all levies contained within the proposed price of supply contracts and subcontract(s) with U.K. firms. In the event such levies are waived, the Government and Contractor will execute a modification to this contract to reflect the dollar reduction as a result of the waiver.

(d) It is understood and agreed that the offeror's failure to complete the above certification shall constitute a representation that the offeror (i) is not a U.K. contractor, and (ii) will not execute any subcontracts valued over \$1 million with U.K. subcontractors.

[End of Provision]

K-26      52.245-4004      CERTIFICATION OF GOVERNMENT-OWNED PROPERTY FOR POSSIBLE USE AND EVALUATION FACTOR FOR USE OF THE GOVERNMENT-OWNED PROPERTY      JAN/1991

ALL OFFERORS ARE REQUESTED TO COMPLETE THE FOLLOWING REPRESENTATION:

The offeror certifies that there  is  
 is not

Government-owned property in its plant(s), or in the plant(s) of any of its prospective subcontractors, which, assuming authorization for its use,

will  
 will not  
 may or may not (not finally determined as of the date of this offer)

be used in the performance of the contract resulting from this solicitation.

NOTE: Offerors checking is AND will or may or may not above must notify the Government representative listed in Block 7 of the SF 33 at least ten days before the date when offers are due under the solicitation, so that the solicitation can be amended to include the appropriate Government property clause(s). If no such notification is given, authorization for the use of such property in this contract may be denied.

OFFERORS CHECKING "IS" AND "WILL" ABOVE SHALL ALSO COMPLETE THE FOLLOWING:

(a) Under each line for entries in the Unit Price and the Amount columns in the Schedule (see Section B of this solicitation), offeror shall add the following evaluation factor line and insert the appropriate unit and total price figures if the conditions of subparagraph c. below are met:

Evaluation factor: \$\_\_\_\_\_ \$\_\_\_\_\_

(b) Computation of the evaluation factor is explained in the provision in Section M entitled EVALUATION OF USE OF EXISTING GOVERNMENT-OWNED PROPERTY.

**Name of Offeror or Contractor:**

(c) An evaluation factor entry is to be made only if:

- (1) The offeror or any subcontractor, at any tier, will use Government-owned property in production for this contract; and
- (2) The offer is predicated on authorized rent-free use of Government-owned property.

(d) An offeror's insertion or non-insertion of an evaluation factor constitutes, respectively, the offeror's certification that his offer is or is not so predicated. The evaluation factor will be added to the offered price for evaluation purposes. See additional provisions concerning Government-owned property in Sections L and M herein.

(e) **CAUTION:** Rental charges for the use of Government-owned property may accrue, if timely and appropriate approval of rent-free use is not obtained.



**CONTINUATION SHEET**

**Reference No. of Document Being Continued**

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

SECTION L - INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
L-1	52.214-34	SUBMISSION OF OFFERS IN THE ENGLISH LANGUAGE	APR/1991
L-2	52.214-35	SUBMISSIONS OF OFFERS IN U.S. CURRENCY	APR/1991
L-3	52.215-1	INSTRUCTIONS TO OFFERORS--COMPETITIVE (JAN 2004) -- ALTERNATE I (OCT 1997)	OCT/1997
L-4	52.215-16	FACILITIES CAPITAL COST OF MONEY	JUN/2003
L-5	52.215-22	LIMITATIONS ON PASS-THROUGH CHARGES -- IDENTIFICATION OF SUBCONTRACT EFFORT	OCT/2009
L-6	52.222-24	PREAWARD ON-SITE EQUAL OPPORTUNITY COMPLIANCE EVALUATION	FEB/1999
L-7	52.232-13	NOTICE OF PROGRESS PAYMENTS	APR/1984
L-8	52.237-1	SITE VISIT	APR/1984
L-9	52.247-46	SHIPPING POINT(S) USED IN EVALUATION OF F.O.B. ORIGIN OFFERS	APR/1984
L-10	252.209-7008	NOTICE OF PROHIBITION RELATING TO ORGANIZATIONAL CONFLICT OF INTEREST -- MAJOR DEFENSE ACQUISITION PROGRAM	DEC/2010
L-11	252.225-7003	REPORT OF INTENDED PERFORMANCE OUTSIDE THE UNITED STATES AND CANADA-- SUBMISSION WITH OFFER	OCT/2010
L-12	252.234-7001	NOTICE OF EARNED VALUE MANAGEMENT SYSTEM	APR/2008
L-13	252.234-7003	NOTICE OF COST AND SOFTWARE DATA REPORTING SYSTEM	NOV/2010
L-14	252.239-7017	NOTICE OF SUPPLY CHAIN RISK	NOV/2013
L-15	52.211-14	NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE, EMERGENCY PREPAREDNESS, AND ENERGY PROGRAM USE	APR/2008

Any contract awarded as a result of this solicitation will be [ ] DX rated order; [ X ] DO rated order; certified for national defense, emergency preparedness, and energy program use under the Defense Priorities and Allocations System (DPAS) (15 CFR 700), and the Contractor will be required to follow all of the requirements of this regulation.

(End of Provision)

L-16	52.215-20	REQUIREMENTS FOR CERTIFIED COST OR PRICING DATA AND DATA OTHER THAN CERTIFIED COST OR PRICING DATA (OCT 2010) -- ALTERNATE IV (OCT 2010)	OCT/2010
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(a) Submission of certified cost or pricing data is not required.

(b) The contracting officer reserves the right to require the offeror to submit the information described in (1) below to determine reasonableness of the offered price(s). If that information is inapplicable or inadequate for determining price reasonableness, the contracting officer reserves the right to require the offeror to submit the information described in (2) below.

(1) The offeror shall, at a minimum, submit information on prices at which the same item or similar items have previously been sold in the commercial market that is adequate for evaluating the reasonableness of the price for this acquisition. Such information may include --

(a) For catalog items, a copy of or identification of the catalog and its date, or the appropriate pages for the offered items, or a statement that the catalog is on file in the buying office to which the proposal is being submitted. Provide a copy of, or describe, current discount policies and price lists (published or unpublished), e.g., wholesale, original equipment manufacturer, or reseller. Also explain the basis of each offered price and its relationship to the established catalog price, including how the proposed price relates to the price of recent sales in quantities similar to the proposed quantities;

(b) For catalog, price list or other items, evidence of prices charged customers in the commercial market, under similar circumstances. This may include copies of contracts (or invoices) with commercial customers to document the prices charged.

(2) If the contracting officer determines the submitted information to be inadequate, the offeror shall submit a breakdown of the elements of cost (material, labor, overheads, other direct costs, packaging, G&A, profit or fee, etc.) used in the development of (or to support) the proposed price. For each of these elements of cost, the contracting officer reserves the right to require the offeror to also provide enough supporting detail or rationale to enable the contracting officer to evaluate the reasonableness of the cost element(s) (FAR 15.403-1(c)(3)(ii)(c)).

(End of clause)

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>	<b>Page 233 of 265</b>
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD

**Name of Offeror or Contractor:**

L-17      52.216-1      TYPE OF CONTRACT      APR/1984

The Government contemplates award of a Firm Fixed Price and Cost Plus Fixed Fee contract resulting from this solicitation.

(End of Provision)

L-18      52.233-2      SERVICE OF PROTEST      SEP/2006

(a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the Government Accountability Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from TACOM LCMC, ATTN: CCTA (Army Contracting Command Warren - Protest Coordinator, Mail Stop 315, 6501 E. 11 Mile Rd., Warren, MI 48397-5000).

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

(End of Provision)

L-19      52.211-1      AVAILABILITY OF SPECIFICATIONS LISTED IN THE GSA INDEX OF FEDERAL SPECIFICATIONS, STANDARDS AND COMMERCIAL ITEM DESCRIPTIONS, FPMR PART 101-29      AUG/1998

(a) The GSA Index of Federal Specifications, Standards and Commercial Item Descriptions, FPMR Part 101-29, and copies of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained for a fee by submitting a request to--

GSA Federal Supply Service  
Specifications Section, Suite 8100  
470 East L'Enfant Plaza SW  
Washington, DC 20407

Telephone (202) 619-8925

Facsimile (202) 619-8978.

(b) If the General Services Administration, Department of Agriculture, or Department of Veterans Affairs issued this solicitation, a single copy of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained free of charge by submitting a request to the addressee in paragraph (a) of this provision. Additional copies will be issued for a fee.

(End of Provision)

L-20      52.211-2      AVAILABILITY OF SPECIFICATIONS, STANDARDS, AND DATA ITEM DESCRIPTIONS LISTED IN THE ACQUISITION STREAMLINING AND STANDARDIZATION INFORMATION SYSTEM (ASSIST)      MAY/2014

(a) Most unclassified Defense specifications and standards may be downloaded from the following ASSIST websites:

(1) ASSIST <https://assist.dla.mil/online/start/>

(2) Quick Search <http://quicksearch.dla.mil/>

(3) ASSISTdocs.com (<http://assistdocs.com>).

(b) Documents not available from ASSIST may be ordered from the Department of Defense Single Stock Point (DoDSSP) by

(1) Using the ASSIST Shopping Wizard <https://assist.dla.mil/wizard/index.cfm>

(2) Phoning the DoDSSP Customer Service Desk (215) 697-2197, Mon-Fri, 0730 to 1600 EST; or

**CONTINUATION SHEET****Reference No. of Document Being Continued**

Page 234 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

(3) Ordering from DoDSSP, Building 4, Section D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Telephone (215) 697-2667/2179, Facsimile (215) 697-1462.

(End of Provision)

L-21 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE FEB/1998

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

<http://www.arnet.gov/far/> or <http://www.acq.osd.mil/dpap/dars/index.htm> or <http://farsite.hill.af.mil/VFAFARA.HTM>

L-22 52.252-5 AUTHORIZED DEVIATIONS IN PROVISIONS APR/1984

(a) The use in this solicitation of any Federal Acquisition Regulation (48 CFR Chapter 1) provision with an authorized deviation is indicated by the addition of (DEVIATION) after the date of the provision.

(b) The use in this solicitation of any DoD FAR SUPPLEMENT (48 CFR Chapter 2) provision with an authorized deviation is indicated by the addition of (DEVIATION) after the name of the regulation.

(End of clause)

L-23 52.211-4047 NOTICE TO OFFERORS INTENDING TO OFFER OTHER THAN NEW MATERIAL DEC/2004  
(TACOM) (NEGOTIATED)

(a) We intend to acquire only new material. Unless this contract otherwise requires virgin material or supplies composed of, or manufactured from, virgin material, the contractor shall provide supplies that are new, as defined in this clause.

(b) Definitions:

(1) "New" means composed of previously unused components, whether manufactured from virgin material, recovered material in the form of raw material, or materials and by-products generated from, and reused within, an original manufacturing process; provided that the supplies meet contract requirements, including but not limited to, performance, reliability, and life expectancy.

(2) "Reconditioned" means restored to the original normal operating condition by readjustments and material replacement.

(3) "Recovered material" means waste materials and by-products that have been recovered or diverted from solid waste including post-consumer material, but such term does not include those materials and by-products generated from, and commonly reused within, an original manufacturing process.

(4) "Remanufactured" means factory rebuilt to original specifications.

(5) "Virgin material" means previously unused raw material, including previously unused copper, aluminum, lead, zinc, iron, other metal or metal ore, or any undeveloped resource that is, or with new technology will become, a source of raw materials

(6) "Residual Inventory" means inventory from a transferred or terminated Government or commercial contract.

(c) Used, reconditioned, remanufactured supplies, unused former Government surplus property, or residual inventory shall not be used unless the contractor has proposed the use of such supplies, and the Contracting Officer has authorized their use.

(d) Offers to provide other than new material shall be submitted to the Contracting Officer for approval:

(1) Offerors of other than new material must provide sufficient information from which a determination of acceptability can be made. Contractors who intend to offer other than new material are to fill out the Other Than New Material Worksheet at:

**CONTINUATION SHEET****Reference No. of Document Being Continued**

Page 235 of 265

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

[http://contracting.tacom.army.mil/acqinfo/OT\\_NEW\\_MATERIAL.htm](http://contracting.tacom.army.mil/acqinfo/OT_NEW_MATERIAL.htm) . Form must be completely filled out and is to accompany your offer.

(e) If the use of used, reconditioned, remanufactured items, unused former Government surplus property, or residual inventory are approved by the Contracting Officer, we may require you to meet specific marking, inspection, and testing requirements beyond those found in this solicitation. We will negotiate these additional requirements with you before award and put them in any resulting contract.

[End of Provision]

L-24      52.211-4054      PACKING/PACKAGING LEVEL FOR OPTION QUANTITIES      MAR/1989  
(TACOM)

For purposes of computing a price for the option quantity specified in Section B of this solicitation and unless otherwise indicated in Section B, it is understood and agreed that the option unit price includes the same level(s) of packing/packaging as those that apply to the basic contract quantity.

L-25      52.215-4400      ARMY INFORMATION SYSTEMS (IS) SECURITY REQUIREMENT      MAR/2013

CONTRACTOR INVESTIGATION/CLEARANCE. Reference AR25-2, AR 380-67, DoD 5200.2-R and Final Credentialing Standards for Issuing Personal Identity Verification Cards under HSPD-12 (31 Jul 2008). All contractors and consultants that access government owned or operated automated information systems, networks, or databases and to safeguard controlled unclassified information shall have a favorable background investigation as required above references positions designated as IT-I, IT-II or IT-III to perform functions stipulated in contract scope of work. The minimum investigative requirements are as follows: IT-I (Privileged Access) = Single Scope Background Investigation (SSBI); IT-II (Limited Privileged Access) = National Agency Check with Law and Credit Check (NACLC); IT-III (Non-Privileged Access) = National Agency Check with Inquiries (NACI). An investigation in-process is acceptable if the 7th Signal Command Designated Approval Authority (DAA) has granted an IT Waiver. Investigations will be coordinated with the G2, TACOM LCMC (AMSTA-CSS / 586-282-6262) and investigations will be through the Personnel Security Investigations Portal Center of Excellence (PSIP COE). Non-U.S. citizens shall be Permanent Resident Aliens with requisite investigation. All personnel shall receive and certify to an Information Systems Security Briefing.

( End of Provision )

L-26      52.215-4404      DATA AND COMMUNICATIONS SUBMITTED TO THE GOVERNMENT ELECTRONICALLY      MAY/2002

(a) The Government often employs contractors as system administrators to operate and maintain Government computer systems. These systems include local area networks, web sites, databases, other electronic records, e-mail accounts, other electronic data transfer mechanisms and computer software. The employees of these contracted system administrators sign nondisclosure agreements obligating them not to reveal information contained in files, documents, computers or systems that they administer. However, unless such information is protected in some way, contracted system administrators do have the ability to access such information. For further information on security issues, see <http://contracting.tacom.army.mil/acqinfo/ebidnotice.htm>

(b) Potential contractors as well as any other parties are thus advised to take steps needed to prevent access by contracted system administrators to information submitted electronically to the Government. Absent such steps, it is assumed that contracted system administrators are permitted the capability to access the data. The access will be limited to that which is necessary for the contract system administrator to perform its duties for the Government. The access shall be subject to the condition that third party information is not to be revealed by the contracted system administrator.

[End of Provision]

L-27      52.215-4405      ACCESS TO THE DETROIT ARSENAL; IDENTIFYING CONTRACTOR EMPLOYEES; NON-      APR/2013  
DISCLOSURE STATEMENT

- a)      APPLICABILITY. This requirement is only applicable to contractor employees working at, or visiting, Detroit Arsenal. The term contractor employee includes employees, agents, or representatives and all employees, agents, or representatives of all subcontractors, suppliers and consultants.
- b)      DETROIT ARSENAL ACCESS.
- 1)      All contractor personnel entering the installation and requiring unescorted access must have a valid purpose to enter and be sponsored by a U.S. government organization or a contractor providing support on the installation. They must have their identity proofed and vetted through the National Crime Information Center (NCIC) database, and be issued, or in possession of an authorized and valid access credential from the Detroit Arsenal installation.

## Name of Offeror or Contractor:

2) At the discretion of the Senior Commander, U.S. Army Garrison Detroit Arsenal, any individual known to have a criminal background involving violence or meets the disqualifying standards in the Final Credentialing Standards for Issuing Personal Identity Verification Cards under HSPD-12 (31 Jul 2008), may be denied access to the Detroit Arsenal. Fingerprinting of employees and any other security procedures deemed necessary for the security of Detroit Arsenal (vehicle searches or x-raying packages, bags, briefcases) may be required based on the Force Protection Condition level at the time of access and whether the installation or building location is identified as a Restricted Area or Mission Essential Vulnerable Area (MEVA).

## c) BADGES.

1) Badges/Passes. Contractor employees entering the Detroit Arsenal are responsible for obtaining, and then returning, security identification badges/passes and vehicle registration decals/passes. Badges are valid only for the date spans indicated, by the government, on each badge application form (STA Form 17).

2) Obtaining Badges. Government sponsor must prepare and submit a properly completed STA Form 17 (Visitor Notification and/or Temporary Security Identification Badge Application) to the Detroit Arsenal Visitor Control Center not less than 96 hours prior to scheduled visit.

3) Returning Badges. The government sponsor is responsible to ensure the security identification badges are returned to the Visitor Control Center, Bldg 232, upon expiration or termination of the contract relationship with the contract employee. Failure to comply with the requirements in this paragraph may be grounds for withholding any funds due the contractor until completion of the requirement, notwithstanding any other clause or requirements in the contract. Failure to comply may also be taken into account by the government in evaluating the contractors past performance on future acquisitions.

## 4) Badge Guidance.

a) All contractor employees, while on the premises at the Detroit Arsenal, shall continually wear the badge, which shall be visible at all times between the neck and waist of the individual. Badges will be secured from public view when off post and will not be left in privately owned or contractor vehicles unattended. Stolen or lost badges will be promptly reported to DES, USAG Detroit.

b) The identification badge or pass issued to contractor employee(s) is for their own use only. Misuse of badge or pass, such as permitting others to use it can result in criminal charges under Title 18 USC 499 and 701, and barring the employee from the Detroit Arsenal property.

c) If the contractor obtains a new or follow-on contract that again requires physical access to the Detroit Arsenal property, he shall obtain new badges for his employees, indicating the new or follow-on contract number. The security policies described in this clause apply to any contractor employee on base in connection with any contract with TACOM-Warren.

d) MEETING ATTENDANCE. Any contractor employee attending meetings with Government employees within or outside the Detroit Arsenal boundaries, shall, at the beginning of the meeting, announce that he/she is a contractor employee. He/she must state the Contractor's name and address, and state the name of all other companies or persons that (a) currently employ him, or (b) that he currently represents. In addition, for the duration of the meetings, the contractor employee shall wear a second visible badge that displays the contractor's company name.

e) CLASSIFIED ACCESS. If a visiting contractor is working on a classified contract, his/her visit request, with security clearance information, must be sent to the G2, TACOM LCMC (SMO Code W4GGAA, AMSTA-CSS, Office Phone 586-282-6262, Fax 586-282-6362) and their sponsoring activity. Government employees hosting meetings will verify contractor employees security clearance information with their supporting Security Coordinator or G2, TACOM LCMC using JPAS or the TACOM LCMC Access Roster prior to providing contractor access to classified information based on the approved DD254.

f) REGULATORY COMPLIANCE. All contractor employees working on the U.S. Army installation, Detroit Arsenal, in the State of Michigan, in connection with this contract, shall conform to all applicable federal or state laws, and published rules and regulations of the Departments of Defense and Army. Also, they must comply with any existing applicable regulations promulgated by Detroit Arsenal, TACOM LCMC, or the Senior Commander. Additionally, all contractor employees working on classified contracts shall comply with the requirements of the National Industrial Security Program (NISPOM) and Army Regulation 380-5, Department of the Army Information Security Program and their approved DD254.

g) NON-DISCLOSURE AGREEMENT. Each contractor employee working at the Detroit Arsenal property under this contract shall sign a Non-disclosure Agreement on their company's letterhead prior to commencing work under the contract or obtaining the badges permitting access to the property. There will be one Non-disclosure Agreement for each employee. The Non-disclosure Agreement shall be in the format indicated below. A copy of the agreement will be made a part of the contract file.

FORMAT FOR  
NON-DISCLOSURE AGREEMENT

I, \_\_\_\_\_, an employee of \_\_\_\_\_, a Contractor providing support services/supplies to Detroit Arsenal, TACOM LCMC, or other tenant organizations (hereinafter Detroit Arsenal), and likely to have access to nonpublic information (hereinafter RECIPIENT), under contract number \_\_\_\_\_, agree to and promise the following:

WHEREAS RECIPIENT is engaged in delivery support services to Detroit Arsenal under contract; and

WHEREAS, It is the intention of Detroit Arsenal to protect and prevent unauthorized access to and disclosure of nonpublic information to anyone other than employees of the United States Government who have a need to know; and, WHEREAS, Detroit Arsenal acknowledges that RECIPIENT will from time to time have or require access to such nonpublic information in the course of delivering the contract services; and,

**Name of Offeror or Contractor:**

WHEREAS, RECIPIENT may be given or other have access to nonpublic information while providing such services; and,  
WHEREAS, "nonpublic information" includes, but is not limited to such information as:

Proprietary information (e.g., information submitted by a contractor marked as proprietary. However please note: THIS NON-DISCLOSURE STATEMENT IS NOT SUFFICIENT TO ALLOW CONTRACTORS ACCESS TO ANOTHER CONTRACTORS PROPRIETARY INFORMATION. FOR THAT, A SEPARATE CONTRACTOR TO CONTRACTOR AGREEMENT IS REQUIRED.);

Advanced procurement information (e.g., future requirements, statements of work, and acquisition strategies);

Source selection information (SSI) (e.g., bids before made public, source selection plans, and rankings of proposals)(PLEASE NOTE: THIS AGREEMENT ALONE DOES NOT AUTHORIZE ACCESS TO SSI--ONLY PCO OR SOURCE SELECTION AUTHORITY CAN AUTHORIZE SUCH ACCESS.);

Trade secrets and other confidential business information (e.g., confidential business information submitted by the contractor);

Attorney work product;

Information protected by the Privacy Act (e.g., social security numbers, home addresses and telephone numbers); and

Other sensitive information that would not be released by Detroit Arsenal under the Freedom of Information Act (e.g., program, planning and budgeting system information);

NOW THEREFORE, RECIPIENT agrees to and promises as follows:

RECIPIENT shall not seek access to nonpublic information beyond what is required for the performance of the support services contract;

RECIPIENT will ensure that his or her status as a contractor employee is known when seeking access to and receiving such nonpublic information of Government employees;

As to any nonpublic information to which RECIPIENT has or is given access, RECIPIENT shall not use or disclose such information for any purpose other than providing the contract support services, and will not use or disclose the information to any unauthorized person or entity for personal, commercial, or any unauthorized purposes; and

If RECIPIENT becomes aware of any improper release or disclosure of such nonpublic information, RECIPIENT will advise the contracting officer verbally within two business days, followed up in writing within five business days. The RECIPIENT agrees to return any nonpublic information given to him or her pursuant to this agreement, including any transcriptions by RECIPIENT of nonpublic information to which RECIPIENT was given access, if not already destroyed, when RECIPIENT no longer performs work under the contract.

RECIPIENT understands that any unauthorized use, release or disclosure of nonpublic information in violation of this Agreement will subject the RECIPIENT and the RECIPIENT's employer to administrative, civil or criminal remedies as may be authorized by law.

RECIPIENT: \_\_\_\_\_ (signature)

PRINTED NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

EMPLOYER: \_\_\_\_\_

[End of Provision]

L-28 DA, 52.215- ABILITY ONE SUBCONTRACTING CREDIT  
5111

APR/2010

a. In accordance with Public Law 102-396, AbilityOne organizations will be afforded the maximum practical opportunity to participate as subcontractors and suppliers in the performance of this contract.

b. As prescribed by 10 U.S.C. 2401d and Section 9077 of Public Law 102-396, and in accordance with DFARS 219-703, Eligibility requirements for participating in the program, offers may receive credit toward the small business subcontracting goal for subcontracts placed with qualified nonprofit agencies participating in the AbilityOne program. AbilityOne organizations are qualified nonprofit agencies for the blind and other severely disabled that are approved by the Committee for Purchase from People Who Are Blind or Severely Disabled under the Javits-Wagner-O'Day Act (41 U.S.C. 46-48).

c. For additional information on AbilityOnes's program and products see <http://www.abilityone.gov/index.html>

d. For additional information on DoD activities in support of AbilityOne, see [http://www.acq.osd.mil/dpap/cpic/cp/abilityone\\_program.html](http://www.acq.osd.mil/dpap/cpic/cp/abilityone_program.html)

[End of provision]

L-29 52.219-4005 SUBMISSION OF SUBCONTRACTING PLAN

MAY/2012

(a) Please refer to FAR 52.219-9, SMALL BUSINESS AND SMALL DISADVANTAGED BUSINESS SUBCONTRACTING PLAN, which is incorporated by reference in Section I of this solicitation. The clause requires offerors that are other than small business to submit a subcontracting plan for small and small disadvantaged business concerns. Such plans are not required from offerors that are small businesses.

**Name of Offeror or Contractor:**

(b) The offeror may submit a copy of their plans (i) as an attachment to their offer in response to this solicitation; or (ii) after the bid opening/proposal closing date, in response to the Government's telephonic request, the copy shall be submitted to the buyer email address listed on the face page of the solicitation within five (5) workdays of the date of the request.

(c) As the offeror, you need to mark each page of your subcontracting plan with the solicitation number and date. If this is a negotiated acquisition, we reserve the right to negotiate any and all elements of the proposed plan during negotiation of cost, technical, and/or managerial features of the proposal. We also reserve the right in negotiated acquisitions to discuss the subcontracting plan after receipt of any best and final offer, in which case such discussion shall not constitute a re-opening of negotiations.

(d) Failure to submit and, if applicable, negotiate an acceptable subcontracting plan which, in the judgment of the Contracting Officer, provides the maximum practicable opportunity for small business and small disadvantaged business concerns to participate in the awarded contract shall render the offeror ineligible for award. In this connection, offerors should be aware of the statutory goal that has been placed on the Department of Defense to award five percent of its total planned subcontracting dollars to small disadvantaged businesses at the prime contract and subcontract levels. In view of this Congressional mandate, large businesses shall provide specific explanation as a part of any written subcontracting plan furnished in response to this solicitation/contract that identifies a goal for subcontracting to small disadvantaged business concerns that, in the aggregate, amounts to less than five percent of the bid or proposal's total subcontracting dollars.

(End of Provision)

(End of Clause)

L-30

52.233-4001

HQ-AMC LEVEL PROTEST PROCEDURES

OCT/2013

Complete AMC Protest Procedures can be found at: <http://www.amc.army.mil/pa/COMMANDCOUNSEL.asp>

An agency protest may be filed with either the contracting officer or to HQAMC but not both following the procedures listed on the website above.

[End of Provision]

L-31

52.245-4002  
(TACOM)ACQUISITION OF NEW FACILITIES, SPECIAL TEST EQUIPMENT, OR SPECIAL  
TOOLING

MAR/1996

(a) It is not the intent of the Government to acquire, or to have acquired for its account, any facilities, special test equipment, or special tooling as those terms are defined below. The Government shall under no circumstances reimburse the offeror for the cost of any new facilities, special test equipment, or special tooling as a separate item. An offeror may, however, amortize the cost of any such facilities, special test equipment, or special tooling it may require in the submitted price of the items. Such facilities, special test equipment or special tooling shall not be subject to Government option rights to take title to the same except as specified in the DEFAULT, TERMINATION FOR THE CONVENIENCE OF THE GOVERNMENT, and/or PROGRESS PAYMENT clauses of this contract.

(b) As used in this solicitation/contract, FACILITIES means industrial property (other than material, special tooling, military property, and special test equipment) for production, maintenance, research, development, or test, including real property and rights in it, buildings, structures, improvements, and plant equipment.

(c) As used in this solicitation/contract, SPECIAL TEST EQUIPMENT means either single or multipurpose integrated test units engineered, designed, fabricated, or modified to accomplish special purpose testing in the performance of the contract. Such testing units comprise electrical, electronic, hydraulic, pneumatic, mechanical, or other items or assemblies of equipment, that are mechanically, electrically, or electronically interconnected so as to become a new functional entity, causing the individual item or items to become interdependent and essential in the performance of special purpose testing in the development or production of particular supplies or services. The term SPECIAL TEST EQUIPMENT does not include: (1) material; (2) special tooling; (3) buildings and nonseverable structures (except foundations and similar improvements necessary for the installation of special test equipment); and (4) plant equipment items used for general plant testing purposes.

(d) As used in this solicitation/contract, SPECIAL TOOLING means all jigs, dies, fixtures, molds, patterns, taps, gauges, other equipment and manufacturing aids, and their replacements, which are of such a specialized nature that, without substantial modification or alteration, their use is limited to the development or production of particular supplies or parts of them, or the performance of particular services. The term includes all components of such items, but does not include: (1) material; (2) special test equipment;

**Name of Offeror or Contractor:**

or (3) buildings, and nonseverable structures (except foundations and similar improvements necessary for the installation of special tooling), general or special machine tools, or similar capital items.

[End of Provision]

L-32

52.246-4038

OFFEROR'S STATISTICAL PROCESS CONTROL (SPC) PROGRAM

APR/1994

(a) This solicitation will result in a contract that will require the contractor to use a statistical process control (SPC) program to ensure the quality of the contract items. The minimum requirements for the contractor's SPC program are described in this solicitation, in the clause entitled STATISTICAL PROCESS CONTROL.

(b) To allow us to analyze your SPC program, you must furnish a description of your program as part of your proposal in response to this solicitation.

(c) Your SPC program description must be complete enough to show that your program has all the features required in Section E of this solicitation. Note that if some of the features of your program are described in other forms (brochures, for example, or articles), you may attach a copy of such items to your response, rather than restating information from them. If your SPC program is described in a textbook or publication that is available from a commercial or academic distributor, include a reference to the publication by author, title, copyright date, and publisher in your program description. You need not physically attach a copy of a textbook to your offer.

(d) If you already described your SPC program as an attachment to another Army Contracting Command - Warren (DTA) solicitation within the previous 90 days, you can either send us another copy or simply identify the number of the previous solicitation. (Note, however, that each SPC program description includes a discussion of which features of the contract item you will control using SPC techniques. Since this discussion differs from item to item, remember that each time you send us an SPC program description, part of the discussion has to be specific to the item you're offering. This means that even if you sent us a description of your SPC program two months ago, simply sending us a copy or referring to the copy of that description won't be enough--unless the older solicitation was for the same item you're offering us now.)

(e) If you don't provide us a complete description of your SPC program, or if the description you do send doesn't show all the required features listed in Section E of this solicitation, your proposal may be ineligible for award.

**L.1 General Proposal Information**

The proposal, subject to the Submission, Modification, Revision and Withdrawal paragraph of Instructions to Offeror(s) Competitive Acquisitions (FAR Provision 52.215-1, ALT I) contained in Section L of the solicitation, shall be submitted in the format and quantities set forth below. All information necessary for the review and evaluation of a proposal is to be contained in the proposal volumes set forth below. Section M of the solicitation sets forth the evaluation criteria and details the Factors to be evaluated and its relative order of importance. The Offerors proposal, as required by Section L, will be evaluated as set forth in Section M of this solicitation. The Government will not assume the Offeror possesses any capability, understanding, or commitment not specified in its proposal. It is an Offerors responsibility to submit a well-written proposal, with detailed information, which clearly demonstrates an understanding of and the ability to comply with the solicitation requirements to allow for a meaningful evaluation. The Government does not assume the duty to search for data to cure problems it finds in proposals.

**L.2 Proposal Content, Format, and Instructions****L.2.1 Proposal Content**

The Offeror's proposal shall be submitted in seven separate volumes as set forth below. The Offerors proposal shall consist of the following volumes:

- (a) Volume 1: Primary Technical Factor. Submit three identical sets of CD-ROMs or DVDs. CAD Models may be submitted on three identical hard drives with a Firewire or eSATA interface, in lieu of CD-ROMs or DVDs.
- (b) Volume 2: Total Evaluated Cost/Price (TEC/P) Factor. Submit three identical sets of CD-ROMs or DVDs.
- (c) Volume 3: Secondary Technical Factor. Submit three identical sets of CD-ROMs or DVDs.
- (d) Volume 4: Manufacturing Readiness Factor. Submit three identical sets of CD-ROMs or DVDs.
- (e) Volume 5: Small Business Participation Factor. Submit three identical sets of CD-ROMs or DVDs.
- (f) Volume 6: Proposal Terms and Conditions Volume. Submit three identical sets of CD-ROMs or DVDs.

**Name of Offeror or Contractor:**

(g) Volume 7: Classified Volume. Submit three identical sets of CD-ROMs or DVDs.

**L.2.2 Proposal Format**

The Offeror's proposal shall be submitted electronically and formatted based upon the use of standard 8.5 x 11 inch paper with a minimum font size of 10 point and with a minimum of 1 inch margins. Schedules, drawings and other documents more appropriate to larger paper may be formatted no larger than 11 x 17 inch paper. All spreadsheets must be in Microsoft Excel 2007 format and include all formulas, function, macros, computations, or equations used to compute the proposed amounts. For each workbook, all Rows, Columns, Cells, and Worksheets must be visible. Zero height and zero width rows and columns in Worksheets are not acceptable. Worksheet cells formatted with the font color equal to the fill color are unacceptable. If Workbooks or Worksheets are password protected, then the passwords must be provided. Print image files or pictures or files containing only values are not acceptable.

**L.2.3 CD-ROMs/DVDs**

Each volume listed above shall be submitted on a separate set of CD-ROMs or DVDs utilizing Microsoft (MS) Word, MS Excel, MS PowerPoint, MS Project, MS Access, or PDF compatible formats. All MS files shall be Office 2007 compatible unless otherwise indicated. Each CD-ROM or DVD shall be labeled so it is easily identifiable for evaluation purposes (example Volume 1: Primary Technical Factor, Set 1 of 3, CD 1 of X), and shall also include the Offerors name and the solicitation number. Each volume shall include a (i) title page, (ii) table of contents, and (iii) list of tables and figures. Each page of the proposal shall be numbered, and each paragraph of the proposal shall have a reference number. Provide a list of all attachments and substantiating data in the table of contents. The table of contents shall include the following information for each factor, attachment, and for all substantiating data listed:

- (a) Cross-reference to related section L paragraph number
- (b) Page number
- (c) CD-ROM or DVD Volume and number
- (d) File name
- (e) Classification

**L.2.4 Submission Due Date**

The Offeror must ensure its proposal, in its entirety, reaches its intended destination before the date and time set for closing on Standard Form 33 of the solicitation in accordance with Clause 52.204-4016.

**L.2.5 Unclassified Proposal Submission Address**

Submit the UNCLASSIFIED proposal to the address below. All proposals delivered in response to this solicitation, whether hand-carried or submitted via U.S. mail, shall be addressed as follows:

U.S. Army Contracting Command - Warren  
Attention: JLTV Proposal, Jessica Richardson or Chris Valevich  
Bldg 231, Mail Stop 416  
6501 E. Eleven Mile Rd. Warren, MI 48397-5000

Solicitation Number: W56HZV-14-R-0039

DATE & Time: Refer to Standard Form 33 (Pg. 1), Number 9

TO BE DELIVERED UNOPENED (Offerors name)

Exterior envelopes must identify the solicitation number, time and date specified for receipt of proposals.

**L.2.6 Method of Submission for Unclassified Proposal**

Proposals may be hand-carried or submitted via US mail. The unclassified proposal must be received by the due date and time on the cover sheet of this solicitation, subject to the late proposal conditions in FAR Provision 52.215-1, ALT 1. Electronic mail or facsimile of proposals and amendments are not authorized. Hand-carried submissions\* include proposals delivered by commercial carriers such as FedEx, UPS, or services other than the US Postal Service. Hand-carried proposals must be delivered to the Detroit Arsenal (DTA) Mail Handling Facility (Building 255) between the hours of 8:00AM and 1:00PM local Warren, MI time. The package(s) will be dated and time stamped at the Mail Handling Facility and the Government will be responsible for forwarding the package(s) to the appropriate personnel. Offerors should ensure that any commercial carrier it uses has a tracking system that can provide documentation that will prove the date and time of delivery to the Government. If the proposal is hand-carried by other than a commercial carrier, the delivery person (even if an employee of the Offeror) must be a US citizen, and must obtain a signed receipt, indicating date and time of delivery, from the Mail Handling Facility personnel.

\*Directions to DTA: From Van Dyke Avenue, travel west on East Eleven Mile road to railroad track. Immediately after crossing railroad track turn right into DTA main gate and follow security officer directions to the Mail Handling Facility (Building 225). It may be

**Name of Offeror or Contractor:**

necessary for the delivery person to obtain a visitors badge prior to being allowed to enter the installation. If so, the security officer will advise the delivery person of the procedures to follow.

Offerors are cautioned that approval to enter the installation must be obtained prior to the closing date and time for receipt of proposals.

Follow the procedures outlined above for entry. Due to security procedures, delays are probable at the entry point and Offerors must plan to accommodate them. It is the Offeror's responsibility to plan sufficient time to clear Detroit Arsenal security.

**L.2.7 Procedure for Submitting Classified Information:**

Classified information shall be submitted separately. Do not submit any classified information with the UNCLASSIFIED volumes listed above. The classified information must be received by the due date and time on the cover sheet of this solicitation, subject to the late proposal conditions in FAR Provision 52.215-1, ALT 1. When submitting classified information, follow the NISPOM Chapter 5 instructions and DD Form 254 (Attachment 0003) using the below mailing address:

SFAE-CSS-JL/Security  
Attn: JLTV Proposal, John Case  
6501 E. Eleven Mile Road, MS 640  
Warren, MI 48397-5000

Solicitation Number: W56HZV-14-R-0039  
DATE & Time: Refer to Standard Form 33 (Pg. 1), Number 9  
TO BE DELIVERED UNOPENED (Offerors name)

Offerors are cautioned that a proposal is not considered received without the classified submission portion of it having been received. Submissions which are mailed or hand delivered are not received instantaneously. Offerors should hand deliver or mail their classified volume in advance of the solicitation closing date and in time to ensure that the entire proposal is received timely.

This RFP includes a classified annex - Annex E. Offerors must have a copy of Annex E in order to meaningfully respond to the solicitation (Reference M.2.1). In order to receive a copy of Annex E, Offerors must provide proof of valid Industrial Facilities Security Clearance by sending an email to: usarmy.detroit.peo-cs-css.mbx.jpo-jltv-pd-ltv-hmmwv-r-and-m@mail.mil with your Company Name, address, CAGE Code, Facility CAGE Code as per the National Industrial Security Program Operating Manual (NISPOM) DoD 5220.22-M, and basis of the need to know.

All requests for the Classified Annex shall be received within 10 calendar days of RFP release. Be sure to provide the contact information for the Facility Security Officer (FSO) in your response. Foreign respondents must provide the POC, phone number and address of their embassy in the U.S. to use for transfer of the classified documents. Verification of foreign respondents ability to access and store U.S. classified information is required prior to any classified information being sent.

**L.2.8 Site Visit**

The Government may conduct site visits of potential prime contractors and its sub-contractors.

**L.2.9 Consistency**

Each volume of the Offerors proposal shall be consistent with the other proposal volumes and shall demonstrate the understanding and ability to perform according to the statement of work of the contract. The Offeror should provide supporting documentation in sufficient detail to permit a complete evaluation of the proposal. Any information provided as part of a particular proposal volume may be used to correlate the evaluation of the other proposal volumes.

**L.3 Single Proposal Submission**

Offerors are limited to submitting one proposal with one approach to meeting the requirements of this solicitation. An Offeror is defined as an entity competing independently that does not share a common parent, does not have a parent/subsidiary relationship with any other Offeror, and is not affiliated with any other Offeror (as defined in Federal Acquisition Regulation (FAR) 19.101).

**L.4 Proposal Volumes**

Offeror proposals shall address the following seven volumes:

- (a) Volume 1: Factor 1 Primary Technical (L.4.1);
- (b) Volume 2: Factor 2 Total Evaluated Cost/Price (L.4.2);
- (c) Volume 3: Factor 3 Secondary Technical (L.4.3);

**Name of Offeror or Contractor:**

- (d) Volume 4: Factor 4 Manufacturing Readiness (L.4.4);
- (e) Volume 5: Factor 5 Small Business Participation (L.4.5);
- (f) Volume 6: Proposal Terms and Conditions (L.4.6);
- (g) Volume 7: Classified Information (L.4.7);

## L.4.1 Volume 1: Factor 1- Primary Technical

Attachment 0061 (Primary Technical Performance Requirements List) identifies the Threshold Purchase Description (PD) requirements to be evaluated under the Primary Technical Factor. The Offeror shall provide a single worksheet for each requirement listed in Attachment 0061, in the format defined in Attachment 0062 (Primary Technical Requirements Worksheet).

## L.4.1.1 System Description

The Offeror shall provide a description of the proposed vehicle design for each JLTV base vehicle platform, the JLTV Trailer (JLTV-T), and kits. This description may be considered in the assessment of the Offeror's proposal for the Primary Technical, Total Evaluated Cost/Price (TEC/P), Secondary Technical, Manufacturing Readiness, and Small Business Participation Factors; and may include text, photos, illustrations, and model/drawing extracts. The description shall include subsystems and components. The description shall highlight the differences between the JLTV base vehicle platforms. It is recommended that the system description be presented in no more than 75 pages.

## L.4.1.2 3D CAD Model

The Offeror shall provide 3D CAD Models representative of the proposed JLTV base vehicle platforms and JLTV-T in accordance with Attachment 0063 (3D CAD Models).

## L.4.1.3 Specification Sheets

The Offeror shall provide a completed specification sheet Attachment 0064 (Proposed Spec Sheet) for each of the proposed base vehicle platforms and the JLTV-T. For each test event used as substantiating data, the Offeror shall submit an as-tested specification sheet to detail the vehicle configuration for each test event used as substantiating data. The as-tested specification sheet shall be submitted in accordance with Attachment 0065 (Spec Sheet).

## L.4.1.4 Substantiating Data

The Offeror shall provide data to substantiate the performance of the proposed design for each requirement in Attachment 0061 (Primary Technical Performance Requirements List). Substantiating Data can be in the form of Government test data, third party test data, Offeror test data, manufacturers specification sheets, certified modeling and simulation data, safety confirmations, material release information, analytical support, design documentation and rationale. Substantiating data shall be complete, specific, and relevant only to the specific performance levels to be achieved for each requirement which the Offeror asserts and substantiates compliance. If the substantiating data for one requirement is the same as data cited for another requirement, then reference the previously provided data and do not provide duplicate data.

Where the Offeror submits substantiating data for a design configuration that varies from the offered design configuration, the Offeror shall explain the extent of the variance and the impact such variances have on the credibility of the substantiating data.

Additionally, the Offeror shall provide the data specified in Attachment 0066 (RAM Data Sheet), Attachment 0067 (Cab Design Data Sheet), and Attachment 0068 (Crew Seating Data Sheet).

If the Offeror uses third party data to substantiate Force Protection requirements, the Offeror shall provide the data in the format of Attachment 0069 (Blast or IED Test Data Sheet).

## L.4.1.5 Vehicle Configuration Tracking

The Offeror shall provide a time-phased diagram which details the implementation of design changes on each vehicle used to provide substantiating data of vehicle performance. The diagram will include Baseline Change Notification (BCN) implementation dates during Government EMD testing and Contractor testing, to the extent necessary to provide precise and accurate documentation of the vehicle configuration at the time of each test event used as substantiating data.

## L.4.2 Volume 2: Factor 2 Total Evaluated Cost/Price (TEC/P)

The TEC/P Volume is comprised of the Contract Cost/Price, Life Cycle Cost Adjustment, Technical Data Package Adjustment, and Tier 1 Objective Requirements Adjustment.

**Name of Offeror or Contractor:**

## L.4.2.1 Contract Cost/Price

The Cost/Price volume shall consist of the following:

a. Submission of all proposed prices on Attachment 0070 Pricing Matrix in accordance with the instructions in the Attachment. By entering proposed per-unit prices there, the total evaluated price (not including any cost realism adjustment) is automatically calculated by the Excel formulas in the Attachment. The spreadsheet will round all proposed unit prices to the nearest penny (\$0.01). All proposed prices shall be in U.S. Dollars, including costs and prices for any subcontractors. If the basis for the proposal is in any other currency, the Offeror shall State the exchange rate(s) being used to convert any currency to the U.S. Dollar and how the exchange rate was developed. The Offeror must also explain how they intend to deal with the risk of exchange rate fluctuation for this prospective contract.

b. Submission of Offeror-constructed Excel spreadsheets providing cost element breakdowns supporting proposed prices, as set forth below. The Offeror must also provide the required associated rationale.

## L.4.2.1.1 Attachment 0070

The Offeror shall fill in the Government-provided Excel summary spreadsheet found in Attachment 0070. Attachment 0070 shall contain all of the Offerors prices as indicated in the attachment. The prices populated by the Offeror in Attachment 0070 shall be in Then-Year dollars (TY\$). Then-Year dollars reflect the actual price paid by the Government for goods or services at the time of award or calling up the option. Attachment 0070 will convert the Offerors proposed prices from TY\$ to Base-Year FY2011 dollars (BY11\$). Base-Year dollars reflect the inflation adjusted price paid for goods or services in a defined specific base year. The base year for JLTV is FY2011.

The Offeror shall propose range pricing for option periods 1-8, using the format in Attachment 0070. The Offeror may enter the same unit price for all ranges in each Ordering Period.

## L.4.2.1.2 Table of Contents

The Offeror and each Major Subcontractor shall provide a Table of Contents showing each file submitted as part of the Cost/Price Volume with a short description of the contents of the file. Each of these entries in the Table of Contents shall be hyperlinked to the respective files.

## L.4.2.1.3 Supporting Narratives

Supporting narratives, including Basis of Estimate (BOE) sheets, shall be provided in files which are MS Excel or MS Word 2007 compatible. BOEs and its supporting rationale may not be submitted as a picture.

## L.4.2.1.4 Top-Level Spreadsheets

For each CLIN, provide a top-level spreadsheet organized by cost element (e.g., Direct Labor, Subcontracts, Direct Material, Other Direct Costs, Overhead/Indirect Costs, Profit/Fee, etc.) consistent with the offerors accounting system. Provide the following information in support of each top-level spreadsheet:

## L.4.2.1.4.1 Direct Labor.

Support for costs related to direct labor shall include the following:

- (a) A quarterly time-phased breakout of the direct labor hours, by labor category.
- (b) A description of each labor hour category. This description shall include sufficient information to allow the reader to distinguish between the different labor categories used in the proposal.
- (c) The labor rate for each category of direct labor and any escalation used.

## L.4.2.1.4.2 Major Subcontracts (Over \$XXXM).

If there are major subcontractors (those with a total cost expected to be greater than \$XXXM), provide pricing information from the subcontractor equivalent to that required of the prime Offeror.

(a) Include the evaluation of the subcontractor's submission required by subcontract pricing considerations (FAR 15.404-3 (b)), and rationale for determining that the subcontract price is fair and reasonable. Also state the type of subcontract the Offeror anticipates (e.g., firm-fixed price, cost-plus-fixed-fee, etc).

(b) For major subcontractors as defined above, if the subcontract is for purchased material and the offeror can demonstrate the subcontract item is either commercial or based on adequate price competition, cost information from the subcontractor is not required. Instead, provide copies of competitive subcontractor price quotes, or the kind of information noted in FAR 52.215-20(a)(1)(ii).

**Name of Offeror or Contractor:**

(c) If the major subcontractor declines to provide complete price proposals to the Offeror or higher-tier subcontractor, then those subcontract proposals may be submitted by the subcontractor directly to the PCO using the same submission instructions noted above. The Government will not communicate with any subcontractor directly to request information or to clarify information received. Failure of the subcontractor to submit the necessary cost or pricing data to the Government, at or prior to the solicitation close date, may render the prime Offeror non-responsive.

## L.4.2.1.4.3 Inter-Organizational Transfers

The same kind of information as described in L.4.3.1.4.2 shall be provided for inter-organizational transfers, regardless of dollar value, except the offeror need not provide its evaluation of such cost data. The offeror shall indicate whether the inter-organizational transfer includes upward or downward adjustments for contingencies or negotiation challenges and the supporting rationale.

## L.4.2.1.4.4 Material Cost

For all components and non-Major Subcontracts (Less than \$XXXM), the offeror shall provide a narrative which explains the method used to develop proposed cost, including information about the extent to which the cost is based on vendor quotes, purchase order history, estimates, etc. Indicate whether the amount includes upward or downward adjustments for contingencies or negotiation challenges and supporting rationale.

(a) High Dollar-Value Material: For the items with an extended cost (purchase price to Offeror) in the top 80% of direct material cost per CLIN, provide a Bill of Material (BOM) with the following information:

- 1) National Stock Number (NSN), as applicable
- 2) Part Number
- 3) Item Name and Description
- 4) Vendor
- 5) Unit Cost (purchase price to Offeror)
- 6) Quantity used
- 7) Extended Cost (unit cost multiplied by quantity used)
- 8) Basis for cost (engineering estimate, vendor quote, purchase history, etc.)
- 9) Indicate whether component is sole-source, competitive, or commercial
- 10) For material and subcontract costs based on engineering estimates, please provide rationale and methodology for how the estimate was developed
- 11) Identify the next higher assembly

(b) All Other Material: State the total amount of material cost not included in high dollar-value material.

## L.4.2.1.4.5 Other Direct Costs

Depending on the Offerors accounting system, this may include costs such as computing charges, shipping, etc. Identify each category of proposed Other Direct Cost, and the dollar amount for each category. Provide an explanation of what is included in each category and how the cost was estimated.

## L.4.2.1.4.6 Travel

For each proposed trip, please provide the purpose of the trip, the trip origin, the trip destination, the number of travelers, the number of days, and the proposed hotel cost, meals and incidental expenses (M&IE) cost, rental car cost, and any other costs associated with the trip. The Offeror may use a Cost Estimating Relationship (CER) for Travel as an alternative estimating methodology. If a CER is used to estimate Travel, please provide a detailed explanation supporting how the CER was developed. Include information such as the programs used and associated Travel costs, amounts included in the base (i.e. number of labor hours, labor costs, etc), and the calculation showing how the CER factor was derived. In addition, please provide the calculation showing how the CER factor is applied to estimate the proposed Travel cost for this effort.

## L.4.2.1.4.7 Rates

Provide a list of direct and indirect rates (e.g. Direct Labor rates, Material Overhead, Direct Labor Overhead, General & Administrative), by category and by year, used in the development of the proposal as applicable. Identify the proposal allocation base and calculation. If the award of this contract will have a significant impact upon the Offerors business volume, the effects of those changes upon the pool and bases shall be identified and discussed. If applicable, include the following:

(a) The date of the current Cost Accounting Standards Board (CASB) Disclosure Statement.

(b) The effective date of the rates or the data that formed the basis for the rates (the date of the burden study analysis or payroll run, etc.), and state whether or not the rate package has been submitted to Defense Contract Audit Agency (DCAA) for review.

**Name of Offeror or Contractor:**

(c) The ending month for the Offeror's fiscal year.

(d) A narrative explaining the basis for the estimated rates. Specifically identify any escalation factors used.

(e) State whether these rates represent a Forward Pricing Rate Submission (FPRS) or a Forward Pricing Rate Agreement (FPRA) and note the date of the agreement.

(f) State whether or not the business volume that would be generated if a contract was awarded to your firm as a result of this RFP has been included in the proposed rate package.

(g) For each of the rate categories, provide both the prior and current fiscal year's Incurred Cost rates. Indicate if the prior year rates have been audited. For the current year's Incurred Cost rates, provide the month ending for those rates.

**L.4.2.1.4.8 Facilities Capital Cost of Money (FCCM)**

The Offeror shall state the total amount estimated for FCCM and identify the Treasury Rate used to develop the amount.

**L.4.2.1.4.9 Profit/Fee**

The Offeror shall state the profit/fee rate as applicable and the total dollar amount included.

**L.4.2.1.5 Cost Accounting System**

In order to be considered for award, the Offeror must provide evidence that it has adequate financial management and fund tracking procedures to accommodate a cost-reimbursement type contract. This evidence may include a letter from either DCMA or DCAA or a Certified Public Accountant that states that the Offeror has an acceptable accounting system for this type of contract. If an accounting system has not been determined to be adequate by DCMA or DCAA, the Offeror shall coordinate with the PCO to obtain an accounting system review prior to submitting a proposal.

**L.4.2.1.6 DCAA and DCMA Contact Information**

The Offeror and each Major Subcontractor shall provide the address, email, and telephone number of the cognizant DCAA Field Audit Office and DCMA office.

**L.4.2.2 Life Cycle Cost Adjustment**

The Offeror shall complete and submit Attachment 0071 (LCC Adjustment Calculator) by entering its proposed inputs for Operating Fuel Efficiency (PDFOV-3388), Idle Fuel Consumption Rate (PDFOV-8192), Mean Mile Between Hardware Mission Failure (PDFOV-2909), Vehicle Prices and quantities by sub-CLIN, and Contractor Furnished Equipment Kit Prices and quantities by sub-CLIN. Attachment 0071 shall be submitted in Microsoft Excel 2007 format. Other than filling in the identified input variables, the Offeror shall not adjust, edit, or change Attachment 0071 in any way.

**L.4.2.3 Technical Data Package Adjustment**

It is the Government's objective to acquire rights in technical data (see DFARS 227.7102-1) to permit the Government to use, modify, reproduce, release, perform, display, or disclose technical data to support future full and open competitive acquisitions of the JLTIV FoV and all its components. The offeror shall identify a proposed option (including associated costs) to deliver rights in technical data greater than the rights to which the Government is already entitled under applicable law, regulation, or contract. The optional rights shall be sufficient to support future full and open competitive acquisitions for the entire JLTIV FoV.

**L.4.2.3.1 Technical Data Package (TDP) Bill of Material (BOM) (Attachment 0072)**

The offeror shall complete Attachment 0072 (TDP BOM) for its proposed JLTIV FoV Government Technical Data Package and submitted in Microsoft Excel 2007 format. The TDP shall be proposed to meet the TDP Purchase Option language contained within Section C.2.6 of this solicitation. Attachment 0072 is a Microsoft Excel spreadsheet with tabs corresponding to each JLTIV Configuration, Trailer, and CFE Kits. For each tab, the offeror shall provide an accounting of each unique part number of its design, to include assemblies, installations, top level drawings, and software. Software files shall be treated as a unique part number for the purpose of completion of Attachment 0072. Instructions for each column are as follows.

(a) PART/DRAWING NUMBER: The contractor shall enter the part/drawing number for the individual software or hardware component pertaining to that line item of the BOM. For example: 12345678.

**Name of Offeror or Contractor:**

- (b) NOMENCLATURE: The contractor shall enter the nomenclature of the part. For example BOLT, METRIC CLASS 10.9.
- (c) DESCRIPTION: The offeror shall provide a description of the part which conveys the usage/function/location of the part. For example, in the case of a pressure relief valve, a description would be "Pressure relief safety valve mounted to the pneumatic system air tanks. The offeror may attach a pictorial representation of the component to aid in clarity (i.e. 3D model screenshot, picture, etc), but this representation must convey the function and usage clearly and concisely.
- (d) TYPE OF COMPONENT: The offeror shall choose from one of the following choices for drawing type. For the purposes of this BOM, unique vehicle software shall be given a unique part number and entered in the table accordingly. For the purposes of this column, software is included as a component.
- (i) COMPETITIVE RIGHTS COMPONENT - A component which is proposed to be delivered and released into the Government TDP with Unlimited or Government Purpose Rights as defined in DFARS 252.227-7013, 252.227-7014, and 252.227-7015, which can be openly and competitively procured by the Government for Government purposes without restriction.
- (ii) SOURCE CONTROLLED OEM COMPONENT - A component designed exclusively by the offeror at its own expense which meets the requirements of ASME Y14.24 Appendix 1 for source controlled drawings and is delivered and released into the Government TDP on a Government format source controlled drawing which provides form, fit, function, interface, and minimum performance requirements and identifies the offeror as the sole approved source of supply. The Offeror shall provide unlimited rights for this type of drawing.
- (iii) SOURCE CONTROLLED-COTS COMPONENT - A commercially available component designed exclusively by the manufacturer at its own expense which meets the requirements of ASME Y14.24 Appendix 1 for source controlled drawings and is delivered and released into the Government TDP on a Government format source controlled drawing which provides form, fit, function, interface, and minimum performance requirements and identifies the commercial manufacturer as the sole approved source of supply. The Offeror shall provide unlimited rights for this type of drawing.
- (e) IDENTIFIED SOURCE(S) FOR SOURCE CONTROL PARTS: The contractor shall provide the source(s) of supply for all components which are identified as SOURCE CONTROLLED. For components specified as COMPETITIVE RIGHTS COMPONENTS with UNLIMITED or GOVERNMENT PURPOSE RIGHTS, enter N/A in this cell.
- (f) JUSTIFICATION FOR SOURCE CONTROLLED PARTS: The offeror shall provide justification for identifying a component as SOURCE CONTROLLED OEM Component or Source Controlled COTS Component. Justification should be brief and address the requirements for these components as defined in ASME Y14.24, Appendix A. The justification shall also address the restrictions identified in DFARS 252.227-7013, 252.227-7014, and 252.227-7015.

**L.4.2.3.2 Declining to Propose**

Should the offeror elect to decline to propose an option for the Government to acquire additional data rights sufficient to support competition, the offeror shall submit this intent in writing in place of Attachment 0072. In accordance with 10 USC 2320 and DFARS 227.7103-1, an Offeror will not be deemed non-responsive if it declines to propose an option for competitive rights in technical data greater than the rights to which the Government is already entitled; nor is the Government's goal of acquiring data rights to support future full and open competitive acquisitions a condition of award, rather it will be considered in the source selection decision.

**L.4.2.3.3 Incorporation of Proposed TDP Data Rights**

The offeror selected for award will have its proposed TDP Option BOM in Attachment 0072 incorporated into Section J of the Contract. If the TDP Option is exercised, then the Contractor shall deliver a TDP with markings conforming to its proposed option rights in Attachment 0072.

**L.4.2.4 Tier 1 Objective Requirements Adjustment**

The Offeror shall identify, in Attachment 0073 (Objective Performance Matrix) the proposed level of performance above threshold for each requirement listed in the matrix.

**L.4.3 Volume 3: Factor 3 Secondary Technical**

The Offeror shall identify, in Attachment 0073 (Requirements Compliance Matrix), whether the Offerors JLTV is compliant or non-compliant to each requirement listed in the matrix. The Offeror shall submit its proposed Attachment 0073 (Requirements Compliance Matrix) in Microsoft Excel 2007 format.

**Name of Offeror or Contractor:**

## L.4.4 Volume 4: Factor 4 Manufacturing Readiness

The Offeror shall submit a Manufacturing Readiness Volume proposal addressing Manufacturing Facilities (L.4.4.2.1), Time Phased Critical Path (L.4.4.2.2), Key Tooling and Equipment (L.4.4.2.3), Subcontractor Letters of Commitment (L.4.4.2.4), Production Approach (L.4.4.2.5), and Manpower and Personnel (L.4.4.2.6). The Offerors proposal shall distinguish between existing and new capabilities for the information required by Sections L.4.4.2.1 through L.4.4.2.6 below.

## L.4.4.1 Delivery Schedule

For proposal preparation and evaluation purposes in the Manufacturing Readiness Factor, the Offeror shall prepare its proposal based on the vehicle delivery schedule specified in Attachment 0074 (Manufacturing Readiness Delivery Schedule).

## L.4.4.2 Manufacturing Readiness Volume

The Offerors Manufacturing Readiness Volume shall include the information described in Sections L.4.4.2.1 through L.4.4.2.6 below.

## L.4.4.2.1 Manufacturing Facilities

The offeror shall provide the below specified information with respect to its approach to manufacturing facility(ies) to meet the monthly delivery quantities specified in Attachment 0074 (Manufacturing Readiness Delivery Schedule). The Offerors response to Sections L.4.4.2.1.1 through L.4.4.2.1.3 shall identify the proposed facility(ies) specifically intended for use in production of the following key component areas:

- a) Body / cab: the major component(s) to be mated to a chassis to provide a complete vehicle having a defined mission capability;
- b) Hull / frame: the vehicle's primary load bearing component(s), which provides the structural integrity to withstand the operational loading stresses generated while traversing various terrain profiles;
- c) Armor (A-kit): equipment required to maximize the survivability of the crew;
- d) Automotive: the means for generating and delivering power (power package / drivetrain) and means for generating tractive efforts and steering forces generally at or near the earth's surface and adapting the vehicle to the irregularities of the surface (suspension / steering); and
- e) Subsystem and final vehicle assembly: the integration of subsystems and the final assembly line that integrates all subsystems into the final, deliverable vehicle.

## L.4.4.2.1.1 Dimensions

The Offeror shall provide the dimensional size of all structures, storage areas, lots, test facilities, open areas, and shipping/receiving areas. The Offeror must distinguish between existing facilities currently in operation, existing facilities not currently in use, and proposed plans to obtain facilities. The proposal shall include photographs of all major facilities to be used in production.

## L.4.4.2.1.2 Configuration

The Offeror shall identify the extent to which its manufacturing facilities are configured to produce the proposed JLTV Mission Package Configurations. For any existing facilities not currently in use and new facilities proposed, provide a milestone schedule for any facility construction and reconfiguration, and identify the size and capacity of the new facility and any impact the facility construction and reconfiguration may have on the delivery schedule contained within Attachment 0075 (Manufacturing Readiness Delivery Schedule).

## L.4.4.2.1.3 Subcontractor Facilities

If any of the major components or subsystems identified in L.4.4.2.1(a-e) are to be manufactured or assembled at a subcontractor facility(ies), then the Offeror shall address the details required by L.4.4.2.1.1 and L.4.4.2.1.2 with regard to the subcontracted effort(s).

## L.4.4.2.2 Time Phased Critical Path (TPCP)

The Offeror shall provide a TPCP of key events necessary to ensure the timely delivery of vehicle quantities specified in Attachment 0075 (Manufacturing Readiness Delivery Schedule) which conform to the technical specifications. The TPCP shall include, but is not limited to, the following milestone dates:

- a) Issuance of purchase orders for Long Lead Time Items (LLTIs) (over 60 days) and critical components (body / cab, hull / frame, armor, automotive components);

**Name of Offeror or Contractor:**

- b) Receipt of LLTI and critical components;
- c) Assembly time (broken down to include times for individual major component assembly);
- d) Paint;
- e) Testing;
- f) Final Preparation and Acceptance;
- g) Hiring and Training of Key Personnel; and
- h) Key Tooling and Equipment.

## L.4.4.2.3 Key Tooling and Equipment

The offeror shall provide the below specified information with respect to its proposed Key Tooling and Equipment to be used to meet the monthly delivery quantities specified in Attachment 0075 (Manufacturing Readiness Delivery Schedule). The offerors response to Sections L.4.4.2.3.1 through L.4.4.2.3.3 shall identify the Key Tooling and Equipment specifically intended for use in production of the following JLTV key components:

- a) Body / cab: the major component(s) to be mated to a chassis to provide a complete vehicle having a defined mission capability;
- b) Hull / frame: the vehicle's primary load bearing component(s), which provides the structural integrity to withstand the operational loading stresses generated while traversing various terrain profiles;
- c) Armor (A-kit): equipment required to maximize the survivability of the crew;
- d) Automotive: the means for generating and delivering power (power package / drivetrain) and means for generating tractive efforts and steering forces generally at or near the earth's surface and adapting the vehicle to the irregularities of the surface (suspension / steering); and
- e) Subsystem and final vehicle assembly: the integration of subsystems and the final assembly line that integrates all subsystems into the final, deliverable vehicle.

## L.4.4.2.3.1 Key Tooling and Equipment Categorize

The offeror shall categorize its proposed tooling and equipment in accordance with its proposed use in the production of the JLTV key components identified in L.4.4.2.3.

## L.4.4.2.3.2 Key Tooling and Equipment Configuration

The offeror shall identify the extent to which Key Tooling and Equipment currently exists and are configured to produce the proposed JLTV Mission Package Configurations. For any new Key Tooling and Equipment proposed, provide a milestone schedule to including, but not limited to, the following major events:

- a) Design;
- b) Release;
- c) RFP / Bids / Award;
- d) Fabrication; and
- e) Validation.

Identify any impact the acquisition of new Key Tooling and Equipment may have on the delivery schedule contained within Attachment 0075 (Manufacturing Readiness Delivery Schedule).

## L.4.4.2.3.3 Subcontractor Key Tooling and Equipment

If any of the major components or subsystems identified in L.4.4.2.3(a-e) are to be manufactured or assembled at a subcontractor facility(ies), then the Offeror shall address the details required by L.4.4.2.3.1 and L.4.4.2.3.2 with regard to the subcontracted effort(s).

## L.4.4.2.4 Subcontractor Letters of Commitment

The Offeror shall provide commitment letters from the major subcontractors responsible for the aspects of JLTV production identified below. Each letter of subcontractor commitment shall be endorsed by a senior official of the subcontractor company. The commitment letters shall include the delivery schedule the subcontractor will supply against, in order to meet the JLTV delivery schedule identified in Attachment 0075 (Manufacturing Readiness Delivery Schedule).

- a) Body / cab: the major component(s) to be mated to a chassis to provide a complete vehicle having a defined mission capability;
- b) Hull / frame: the vehicle's primary load bearing component(s), which provides the structural integrity to withstand the operational loading stresses generated while traversing various terrain profiles;
- c) Armor (A-kit): equipment required to maximize the survivability of the crew;
- d) Automotive: the means for generating and delivering power (power package / drivetrain) and means for generating tractive efforts and steering forces generally at or near the earth's surface and adapting the vehicle to the irregularities of the surface (suspension / steering); and

**Name of Offeror or Contractor:**

e) Subsystem and final vehicle assembly: the integration of subsystems and the final assembly line that integrates all subsystems into the final, deliverable vehicle.

## L.4.4.2.5 Production Approach

The offeror shall describe its proposed production facility(ies) layout to accommodate the monthly delivery quantities specified in Attachment 0075 (Manufacturing Readiness Delivery Schedule). The layout shall identify the progressive physical flow of hardware within the proposed production site(s). The progressive physical flow shall detail the internal processes from the point of material receipt and storage through sub-assembly work, final JLTV assembly, end of line test / verification / audit, and preparation for shipment. The offerors facility layout shall indicate whether the production facility will be dedicated solely to the manufacture and assembly of JLTV or if the production facility will integrate the manufacture and assembly of JLTV into an existing production line for other products. If integrated with other products, the offerors proposal shall describe the efforts necessary to integrate the JLTV into the production line.

## L.4.4.2.6 Manpower and personnel

The offeror shall identify the qualifications and experience for all production labor required to produce the JLTV in accordance with the delivery schedule identified Attachment 0075 (Manufacturing Readiness Delivery Schedule). The offeror shall address all labor required for assembly, material handling, inventory control, quality assurance, painting, and welding. The Offeror shall identify the existing workforce and any shortfalls in the workforce. The Offeror shall describe the hiring and training plans to fill all shortfalls in the existing workforce.

## L.4.5 Volume 5: Factor 5 - Small Business Participation

The Small Business Participation Factor Volume is comprised of a single chapter. Offerors are responsible for including sufficient detail to permit a complete evaluation. Any information provided as part of the Small Business Participation Factor Volume may be used to correlate the evaluation of the other proposal volumes.

## L.4.5.1 Application

The following Small Business Participation proposal submission instructions apply to every Offeror (U.S. and non-U.S.), regardless of size status or locations of working facilities or headquarters.

## L.4.5.2 Definitions

(a) Affiliate is defined in 13 CFR 121.103.

(b) Contractor Team Arrangement (CTA) is defined in FAR 9.601 and includes partnerships, joint ventures, and prime and subcontractor relationships.

(c) Contractor Team Arrangement (CTA) is defined in FAR 9.601 and includes partnerships, joint ventures, and prime and subcontractor relationships.

(d) Indian Tribe is defined in FAR 19.701 as any Indian tribe, band, group, pueblo, or community, including native villages and native groups (including corporations organized by Kenai, Juneau, Sitka, and Kodiak) as defined in the Alaska Native Claims Settlement Act (43 U.S.C.A. 1601 et seq.), that is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs in accordance with 25 U.S.C. 1452(c). This definition also includes Indian-owned economic enterprises that meet the requirements of 25 U.S.C. 1452(e).

(e) Other Than Small Business is any entity that is not a U.S. small business concern, including, but not limited to large businesses, educational institutions, non-profits, government entities, and foreign firms.

(f) Small Business Teaming Arrangement (SBTA) is defined in 13 CFR 125.1 and includes joint ventures and prime and subcontractor relationships.

(g) Subcontract is defined in FAR 19.701 as any agreement (other than one involving an employer-employee relationship) entered into by a Government prime contractor or subcontractor calling for supplies and/or services required for performance of the contract, contract modifications, or subcontract.

(h) U.S. Small Business Concern is defined in FAR 19 and DFARS 19. U.S. small business concerns include small businesses (SBs), small disadvantaged businesses (SDBs), woman-owned small businesses (WOSBs), HUBZone small businesses (HUBZone SBs), veteran-owned small businesses (VOSBs), and service disabled veteran-owned small businesses (SDVOSBs).

**Name of Offeror or Contractor:**

L.4.5.3 Small Business Participation Factor Workbook (Attachment 0076) and Small Business Participation Factor Workbook Instructions (Attachment 0077):

(a) ALL Offerors, including Offerors who are themselves U.S. small business concerns for the NAICS code assigned to this requirement, are required to complete the Small Business Participation Factor Workbook (Attachment 0076, using the detailed Small Business Participation Factor Workbook Instructions (Attachment 0077).

(b) An Offeror shall fill out the Small Business Participation Factor Workbook (Attachment 0075) with goals for this solicitation specifically, even if it is an Other-Than-Small-Business (OTSB) submitting a Comprehensive Subcontracting Plan in accordance with Section I of the solicitation.

(c) The Small Business Participation Factor Workbook (Attachment 0076) shall be submitted in the Microsoft Excel workbook format with all tabs, formulas, and functions that are built into the template in the solicitation. Print image files or pictures (for example, a picture of an Excel spreadsheet embedded in a Word document) or files containing only values are not acceptable.

(d) Small Business Participation Factor Workbook (Attachment 0076 Fill-in Tabs (Prime \$, Sub \$, SB Prime List, and SB Sub List): When filling in these tabs in the Workbook, the Offeror shall include in the dollars for prime contractor participation and subcontractor participation the proposed amounts for all of the Basic CLINs and all of the Option CLINs.

(e) Small Business Participation Factor Workbook (Attachment 0076 Automatic Tabs (Con and Rollup): These tabs in the Workbook are filled in automatically based on the information the Offeror filled in on the other four tabs. During its evaluation of the proposal, the Government will check for consistency. Therefore, the Offeror shall use these tabs to check for consistency within the Small Business Participation Factor Submittal, and between the Small Business Participation Factor Submittal and other parts of the proposal, including the Subcontracting Plan and the Offerors other factor volumes.

**L.4.5.4 Narrative**

If the Offeror has a contractor team arrangement, the Offeror shall submit a very brief introductory narrative that explains the arrangement. If any Offeror has any other need to clarify or explain anything in the Small Business Participation Factor Submittal, the information can be included in this narrative.

**L.4.5.5 Signature Requirement for Proposed Subcontracts**

The Small Business Administration (SBA) Dynamic Small Business Search (DSBS) Database is the official source for the SBA certified designations of 8(a), 8(a) Joint Venture, and HUBZone SB. The government may use this system to verify any SBA certifications of the prime and subcontractors. The government may also use the System for Award Management (SAM) to verify size, ownership, and any other information provided about the prime and subcontractors listed in the proposal. According to 13 CFR 121.411(b) the offeror cannot require subcontractors to use SAM. For any contractor listed in the proposal that is not registered in SAM, the offeror shall provide in accordance with 13 CFR 121.411(f), a certification from that contractor verifying its small business size and socioeconomic status. This certification shall contain, on the same page as the size and status claimed, the signature of the official authorized to sign for the subcontractor.

**L.4.5.6 Subcontracting Reports**

(a) The Offeror shall provide documentation of performance in complying with the requirements of FAR 52.219-9 or DFARS 252.219-7004 over the twelve months prior to solicitation release date if the offeror meets both of the following criteria:

(1) Offeror is other than a U.S. small business concern as defined by the NAICS code applicable to this solicitation.

(2) Offeror has had prior contracts requiring the submission of a Small Business Subcontracting Plan in accordance with FAR 52.219-9 or DFARS 252.219-7004.

(b) If over the twelve months preceding the date of solicitation release the Offeror has reported accomplishments against an Individual Subcontracting Plan or Master Subcontracting Plan, the documentation shall include the latest Individual Subcontracting Report (ISR/SF294) for the contracts listed below.

(1) Every Federal contract for which the Offeror was the prime contractor required to submit an ISR/SF294.

(2) Every contract for which the Offeror was a subcontractor required to submit an ISR/SF294.

(c) If ISR reports for a contract were not submitted to eSRS, send signed copies of the SF294s that were submitted.

(d) If over the twelve months preceding the date of solicitation release the Offeror has reported accomplishments against a Commercial or Comprehensive Subcontracting Plan, or both, in lieu of or in addition to Individual or Master Plans, the documentation shall include:

**Name of Offeror or Contractor:**

- (1) A copy of the Plan to document the goals.
- (2) The latest Summary Subcontract Report (SSR/SF295) to document accomplishments.
- (e) If the Offeror has not performed a contract over the past twelve months that contained FAR 52.219-9 or DFARS 252.219-7004, the Offeror shall so state.
- (f) If during evaluation, the Government finds additional reports from the twelve months prior to solicitation release date that were not submitted in the proposal, the Government may use the additional reports in the evaluation. If there are discrepancies in the data between the reports submitted in the proposal and the reports submitted to the Electronic Subcontracting Reporting System (eSRS) or to the appropriate Government office, the information on the reports that officially were submitted to eSRS or the appropriate Government office will be used in the evaluation.

**L.4.5.7. Other Resources/Additional Data**

In addition to the data submitted by the Offeror, and the data found in Government systems specifically referenced throughout this L.4.5, the Government may use other resources to evaluate the Offerors Small Business Participation Factor Submittal. The Government reserves the right, during clarification or discussion under FAR 15.306, to request additional data to support its assessment.

**L.4.5.8 What Counts Toward the Offerors Proposed Small Business Participation Factor Goals**

The Offerors extent of small business participation in each small business category will be calculated automatically on the Roll-up tab in the Small Business Participation Factor Workbook (Attachment 0076). The embedded formula takes the Dollars for portion of work to be performed by Small Business Prime and adds it to the Dollars for portion of work to be performed by First Tier Small Business Subcontractors, then divides the sum by the Total Contract Amount, and multiplies the result by 100 to obtain the percentage. The Total Contract Amount is defined as the Total Proposed Amount for all of the Basic CLINs and all of the Option CLINs.

(a) The following count toward an Other-Than-Small-Business Offerors proposed Small Business Participation Factor goals:

- (1) The dollars for first tier small business subcontracts.
- (2) The dollars for first tier small business subcontracts of first tier affiliates for work related to the contract. For purposes of this small business participation factor and the subcontracting plan, first tier affiliates are considered part of the prime.
- (3) The dollars for first tier small business subcontracts of joint venture members for work related to the contract. For purposes of this small business participation factor and the subcontracting plan, joint venture members are considered affiliates of the prime and therefore part of the prime, even if they are designated as subcontractors in the joint venture legal agreement.
- (4) The dollars the offeror has been designated to receive as a small business and small disadvantaged business credit from an Alaskan Native Corporation (ANC) or Indian Tribe subcontract at first or lower tiers.

(b) The following count toward a Small Business Offerors proposed Small Business Participation Factor goals.

- (1) The dollars for the portion of the work to be performed as a small business prime.
- (2) The dollars for first tier small business subcontracts.
- (3) The dollars for first tier small business subcontracts of first tier affiliates for work related to the contract. For purposes of this small business participation factor, first tier affiliates are considered part of the prime.
- (4) The dollars for the portion of work to be performed as a small business joint venture prime. This includes any separate legal entity as well as the joint venture members. For purposes of this small business participation factor, joint venture members are considered part of the prime, even if they are designated as subcontractors in the joint venture legal agreement.
- (5) The dollars for first tier small business subcontracts of joint venture members for work related to the contract.

**L.4.5.9 Differences between the Small Business Subcontracting Plan and Small Business Participation Factor**

(a) The Small Business Subcontracting Plan:

- 1) is not required of small businesses.
- 2) is developed and submitted in accordance with FAR Clause 52.219-9 Small Business Subcontracting Plan and its ALT II and DFARS Clause 252.219-7003 incorporated by reference in Section I (or DFARS Clause 252.219-7004 if the Offeror has a comprehensive subcontracting

**Name of Offeror or Contractor:**

- plan) and TACOM Provision 52.219-4005 in Section L.
- 3) is evaluated in accordance with the FAR, DFARS, and AFARS.
  - 4) has goals that are expressed as a percentage of Total Subcontracting Amount.
  - 5) has goals broken out separately for each CLIN.

(b) The Small Business Participation Factor Submittal:

- 1) is required of all Offerors, including small businesses.
- 2) is developed and submitted in accordance with this Section L provision.
- 3) is evaluated in accordance with Section M.
- 4) has goals that are expressed as a percentage of Total Contract Amount.
- 5) has goals which are not separately established for each CLIN.

**L.4.6 Volume 6: Proposal Terms and Conditions**

The offeror shall submit the following information for the proposal terms and conditions volume of its proposal:

**L.4.6.1 Signature Actions/Offeror Fill-Ins**

The offeror shall submit a signed copy of the Standard Form 33 (SF33) cover page, by a person authorized to sign proposals on behalf of the offeror, and a copy of Sections A, C through K with all completed fill-ins, including all signed copies of Amendments to the solicitation. Offerors shall use Attachment 0070 for all prices proposed under this solicitation.

**L.4.6.2 Statement of Acknowledgement**

A statement specifying agreement with all terms, conditions, and provisions shall be included in the solicitation or any exceptions. If any exceptions are taken to attachments, exhibits, enclosures, solicitation terms, conditions, provisions, requirements or documents provide a list of those exceptions and the basis for each exception. Any such exception may be grounds for the Contracting Officer to reject the proposal from further consideration in the source selection process in accordance with Section M.2.

**L.4.6.3 Small Business Subcontracting Plan**

Other than U.S. Small Business concerns, as defined by the North American Industry Classification System (NAICS) code applicable to this solicitation, 336992, shall submit a small business subcontracting plan in accordance with FAR Clause 52.219-9 ALT II and provide this plan as part of Volume 6.

**L.4.6.4 Assertion of Restrictions**

The Offeror shall include the following in its proposal submission: an identification of all Non-Commercial Technical Data, Non-Commercial Computer Software and Software Documentation, Commercial Technical Data, and Commercial Computer Software and Software Documentation and on its Assertion of Restrictions listing required under DFARS 252.227-7017. The Assertion of Restrictions listing is to include Commercial Technical Data and Commercial Software and Software Documentation proposed to come to the government with less than Unlimited Rights. The failure to list restrictions applicable to Commercial Technical Data and Commercial Software and Software Documentation, Non-Commercial technical data and non-commercial computer software and software documentation from the 252.227-7017 Assertion of Restrictions listing will bar the Offeror from making such a restriction upon delivery of the data, software or software documentation, unless an allowable post-award Assertion of Restrictions is submitted per the conditions provided in subsection (e) of either DFARS Provision 252.227-7013 or 252.227-7014.

**L.4.6.4.1 A Listings for Items Included and for Items Not Included in TDP Option**

If the Offeror elects to propose an option in response to Section L.4.2.3 to grant additional rights to the government sufficient to support competition of the underlying TDP for technical data, computer software, or computer software documentation, the Offeror shall submit a listing of each such data item in which the government is gaining such additional, competitive rights. [Hereinafter referenced as the "Option Rights Items List."] For each data item, the listing shall specify if the government will be given Government Purpose Rights or Unlimited Rights upon exercise of the option.

Additionally, the contractor shall also provide a list of items for which the contractor is not delivering additional rights sufficient to support competition; each item will have an explanation of why it is not being included among the items for which the government is obtaining additional, competitive rights. [Hereinafter referenced as the Continuing Restricted Items List.]

The list of items in which the government is gaining additional, competitive rights upon exercise of the Option, i.e., the Option Rights Items List, and the list of items that will continue to be restricted after the exercise of the Option, i.e., the Continuing Restricted Items List will be incorporated as an attachment in Section J of the resulting contract.

**Name of Offeror or Contractor:**

The Offerors "Option Rights Items List" and Continuing Restricted Items List shall be consistent with the Offerors proposal submitted in response to Section L.4.2.3.

L.4.6.5 Facility Clearance (FCL)

Offerors are required to submit documentation substantiating possession of a Facility Clearance (SECRET). Include documentation demonstrating that the Offeror and subcontractors have a Facility Clearance (FCL) for any location that will handle classified material. Offerors must submit documentation indicating its facility has been granted a SECRET FCL. Offerors who are considering a subcontractor that will handle classified material must also submit documentation indicating that its subcontractor has obtained the necessary clearance in order to be considered for award.

L.4.7 Volume 7: Classified Information

The offeror shall submit all classified information associated with its proposal in Volume 7 in accordance with Section L.2.7 above. For all classified information submitted within Volume 7, the offeror shall clearly identify which proposal volume (1-6) with which it is associated.

\*\*\* END OF NARRATIVE L0001 \*\*\*

**CONTINUATION SHEET**

**Reference No. of Document Being Continued**

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD

**Name of Offeror or Contractor:**

SECTION M - EVALUATION FACTORS FOR AWARD

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
M-1	52.217-5	EVALUATION OF OPTIONS	JUL/1990
M-2	52.247-47	EVALUATION--F.O.B. ORIGIN	JUN/2003
M-3	52.247-49	DESTINATION UNKNOWN	APR/1984

For the purpose of evaluating offers and for no other purpose, the final destination(s) for the supplies will be considered to be as follows:

United States Army:

- 25% - (~12,275) -- Ft. Stewart (GA)
- 25% - (~12,275) -- Ft. Hood (TX)
- 25% - (~12,275) -- Joint Base Lewis McCord JBLM (Washington St.)
- 25% - (~12,275) -- Ft. Drum (NY)

United States Marine Corps

- 50% - (2,750) -- Camp Lejeune (NC)
- 50% - (2,750) -- Camp Pendleton (CA)

(End of Provision)

M-4	52.216-4216 (TACOM)	EVALUATION CRITERIA FOR RANGE PRICING	MAY/2005
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a. The total evaluated price will include the following:

1. Basic CLINs -1- through -2-
2. Option CLIN -3-
3. Transportation costs if FOB Origin
4. FAT costs, if applicable

b. For CLINs with range pricing, the Government will calculate a weighted average unit price for each CLIN by multiplying the unit prices proposed for each quantity range by the below weighting percentages. The total evaluated price of each such CLIN will be based on multiplying the weighted average unit price by the estimated CLIN quantities specified in Section B of this solicitation.

Item: -4-

Quantity Range	Weighting Applied to Unit Price
From -5- to -6-	-7- %
From -8- to -9-	-10- %
From -11- to -12-	-13- %
	Total 100%

Offerors should note that the pricing of all offers will be carefully reviewed to detect offers that are unbalanced from range to range (i.e. one or more ranges have pricing that is significantly over or understated as indicated by the application of cost or price analysis techniques). Unbalanced offers may be determined unacceptable. See FAR 15.404-1(g) for more information on unbalanced offers.

[End of Clause]

M-5	52.247-4006 (TACOM)	METHOD OF EVALUATION FOR F.O.B. ORIGIN TRANSPORTATION OFFERS	MAR/2014
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(a) For the evaluation of this offer, we will use the lowest freight rates from the Transportation Officer that are:

- in effect (or the lowest rates that will become effective before the expected date of initial shipment), and
- on file or published with the Transportation Officer by the date of bid opening (or by the closing date specified for

**Name of Offeror or Contractor:**

requests for proposals), and

- for the Government selected method of shipment, and
- based upon the following freight classification:

STCC: 6001-AP                      STCC ITEM NO.: 37 119 17  
NMFC: 100-AN                      NMFC ITEM NO: 190450

[End of Provision]

M-6                      52.209-4011                      CONTRACTOR RESPONSIBILITY AND ELIGIBILITY FOR AWARD                      JAN/2001  
(TACOM)

(a) We'll award a contract to the offeror that:

- (1) submits the lowest evaluated offer if award is based on price only, or the offer that provides the best value to the Government if factors in addition to price are identified elsewhere in this solicitation, and
- (2) submits a bid or proposal that meets all the material requirements of this solicitation, and
- (3) meets all the responsibility criteria at FAR 9.104.

(b) To make sure that you meet the responsibility criteria at FAR 9.104 we may:

- (1) arrange a visit to your plant and perform a preaward survey;
- (2) ask you to provide financial, technical, production, or managerial background information.

(c) If you don't provide us with the data we ask for within 7 days from the date you receive our request, or if you refuse to have us visit your facility, we may determine you nonresponsible.

(d) If we visit your facility, please make sure that you have current certified financial statements and other data relevant to your bid or proposal available for our team to review.

[End of Provision]

M-7                      52.245-4001                      EVALUATION OF USE OF EXISTING GOVERNMENT-OWNED PROPERTY                      MAR/1985  
(TACOM)

(a) Rent-free use of existing facilities, special test equipment, and/or special tooling, title to which is in the Government or to which the Government has the right to take title (all of which is herein described as property), including rent-free use by prospective subcontractors, will be a consideration in the evaluation of responses to this solicitation. Contractor must provide with their proposal, the list of Government Furnished Property (GFP), the acquisition cost, age, and type of GFP.

(b) For purposes of evaluation only, the unit evaluation factors for each classification of property, computed as follows, shall be added by the Government to the price or prices offered. The evaluation factors shall be computed by multiplying the acquisition cost of each item of property by the rental rates specified below, and then multiplying the product obtained by the number of months of use proposed. A minimum of one month of use shall be required for purposes of evaluation. Fractional portions of a month shall be counted as a full month. This final product shall then be divided by the total quantity of units to be produced using such property to determine the unit evaluation factors. The factors shall be separately set forth by the offeror under the offered unit prices.

Monthly Rental Rates

(1) For land and land preparation, buildings, building installations, and land installations other than those items specified in (2) below: the prevailing commercial rate.

(2) For industrial plant equipment of the types covered by Federal Supply Classification Code Numbers 3405, 3408, 3410, 3411 through 3419 (machine tools), and 3441 through 3449 (secondary metalforming and cutting machines), the following rates shall apply:

## Name of Offeror or Contractor:

Age of EquipmentMonthly Rental Rates

0-2 years	3.00%
Over 2 to 3 years	2.00%
Over 3 to 6 years	1.50%
Over 6 to 10 years	1.00%
Over 10 years	0.75%

(3) For personal property and equipment not covered in (1) and (2) above (including all production equipment not in the Federal Supply Classification Codes set forth above, and including special tooling and special test equipment), the following rates shall apply:

-- Two percent (2.00%) per month for electronic test equipment and automotive equipment;

-- One percent (1.00%) per month for special tooling and for all other property and equipment.

(c) If any item of property is to be used on other work for which use has been authorized during the period such property is requested for use on any contract resulting from this solicitation, the evaluation factors shall be calculated in accordance with the following: the acquisition cost of each item of property shall be multiplied by the rental rates specified for the applicable classification of property set forth above, and the product obtained shall then be multiplied by the number of months of rent-free use requested. The resulting product shall be multiplied by a fraction, the numerator of which is the amount of use of the property proposed under this solicitation, and the denominator of which is the sum of the previously-authorized use of the property during the period of proposed use and the use proposed under this solicitation. The final product shall then be divided by the total quantity of units to determine the unit evaluation factor. The measurement unit for determining the amount of use to be considered in establishing the fraction referred to in the foregoing calculation shall be direct labor hours, sales, hours of use, or any other measurement unit which will result in an equitable apportionment of the factor. The measurement unit used and the amount of respective uses in sufficient detail to support the proration shall be set forth for each item of property.

d() For the purposes of determining the evaluation factors set forth above, the following definitions apply:

(1) The term acquisition cost means the total cost to the Government for an item of property, including the cost of (i) transportation, (ii) installation, (iii) accessories to be used with the item, and (iv) any rebuilding and modernization which has enhanced the original capability of the item;

(2) The age of an item of property shall be based on the year in which it was manufactured, with an annual birthday on 1 January of each year thereafter. On 1 January following the date of manufacture, the item shall be considered one year old; and on each succeeding January 1st, it shall become one year older (thus, an item manufactured on 15 July 1978 would be one year old on 1 January 1979, and over two years old on and after 1 January 1980).

(e) Where this solicitation provides that the property is offered for use on an as-is basis, F.O.B. loading dock at present location, the Government shall add to the offered price, in addition to the evaluation factors described above, a factor, for purposes of evaluation, which will be composed of the costs to the Government of making such property available at the F.O.B. point, including the costs of disconnection, preparation for shipment, and placement on the loading dock.

[End of Provision]

M-8      52.247-4015      EVALUATION OF TRANSPORTATION COSTS FOR OPTIONS (F.O.B. ORIGIN)      SEP/2006  
(TACOM)

We will compute and identify transportation costs for the basic quantity only.

[End of Provision]

M-9      52.247-4019      EVALUATION OF TRANSPORTATION COSTS FOR OPTIONS (F.O.B. ORIGIN)      MAR/2002  
(WARREN)

(a) We will compute and identify transportation costs pertaining to the option quantity identified in Section B of the solicitation in the same manner as we calculated the cost for the basic quantity.

(b) Where only one basic quantity destination is identified, we will base our evaluation of transportation costs for the option

**Name of Offeror or Contractor:**

quantity on that destination. Where two or more basic quantity destinations are identified, we will evaluate the option using the same ratio as the basic quantity.

[End of Provision]

## M.1 Basis of Award

## M.1.1 Overview

The Government intends to award one contract as a result of this solicitation. The Government may make no contract award where it concludes that no proposal exists with a reasonable probability of achieving program objectives at an affordable price and/or an acceptable level of risk. The Government will select for award the proposal which represents the best value to the Government as described below.

There are five evaluation Factors:

- (a) Volume 1: Factor 1 Primary Technical (M.4.1);
- (b) Volume 2: Factor 2 Total Evaluated Cost/Price (TEC/P) (M.4.2);
- (c) Volume 3: Factor 3 Secondary Technical (M.4.3);
- (d) Volume 4: Factor 4 Manufacturing Readiness (M.4.4);
- (e) Volume 5: Factor 5 Small Business Participation (M.4.5);

The relative order of importance of these Factors is described in section M.4 below.

## M.1.2 Requirement for Facility Clearance (SECRET)

Portions of the information on this program will be classified as SECRET. To be considered for award, Offerors are required to submit documentation substantiating possession of a Facility Clearance (SECRET), including documentation demonstrating that the Offeror and all relevant subcontractors have a Facility Clearance (FCL) for any location that will handle classified material.

All FCL information will be verified through the Defense Security Service for all Offerors and their subcontractors. Offerors without a SECRET FCL will neither be able to discuss or access key aspects of the program that are classified nor will they be able to pass such information on to their subcontractor. Access to SECRET information will be required under the contract resulting from this solicitation. The Government will reject an offerors proposal that does not include evidence the offeror has obtained a SECRET Facility Clearance and Annex E of the PD at the time of proposal submission in accordance with M.2.

## M.1.3 Export Controlled Information

This solicitation contains Export Controlled information in Controlled Unclassified Attachments and within the Classified Annexes to this solicitation. It is the responsibility of the Offeror, not the Government, to obtain the appropriate export licenses, or process the appropriate export license exemption, necessary for authorization to share any such information with subcontractors who are foreign persons as defined in applicable export laws and regulations, or to obtain access to the files themselves. The failure or inability of an Offeror to obtain the appropriate export compliance documentation may be considered as grounds for rejection in accordance with M.2.

## M.2 Rejection Of Offers

Offerors shall carefully read, understand, and provide all the information requested in the Proposal Preparation Instructions and Content contained in Section L. In accordance with clause FAR 52.215-1 (ALT I) contained in this solicitation, the Government may reject any or all proposals if such action is in the Governments interests. The circumstances which may lead to the rejection of a proposal include, but are not limited to, the following:

(a) The proposal fails to meaningfully respond to the Proposal Preparation Instructions specified in Section L of this solicitation. Examples of failure to meaningfully respond include:

- (1) When a proposal merely offers to perform work according to the RFP terms or fails to present more than a statement indicating its capability to comply with the RFP terms and does not provide support and elaboration as specified in Section L of this solicitation.
- (2) A proposal fails to provide any of the data and information required in Section L.
- (3) A proposal provides some data but omits significant material data and information required by Section L.
- (4) A proposal merely repeats the contract statement of work without elaboration.

(b) The proposal contains unbalanced pricing. Unbalanced pricing exists when, despite an acceptable total evaluated price, the price of one or more contract line items is significantly over or understated as indicated by the application of cost or price analysis

**Name of Offeror or Contractor:**

techniques.

- (c) The proposal price is unaffordable, per M.3.2.
- (d) The proposal offers a product or service that does not meet all stated material requirements of the solicitation.
- (e) The proposal proposes exceptions to the attachments, exhibits, enclosures, or other RFP terms and conditions.
- (f) The Offeror (or any subcontractor who will handle or have access to classified information) does not have SECRET FCL.
- (g) The Offeror proposes performance below threshold performance for any Primary Technical Performance Requirements identified in Attachment 0061.
- (h) The Offeror's proposal contains any inconsistencies between proposal volumes.
- (i) The Offeror fails to obtain the appropriate export compliance documentation as required by M.1.3.

**M.3 Evaluation and Source Selection Process**

The evaluation of proposals submitted in response to this solicitation, and source selection, shall be conducted using a tradeoff process to obtain the best value to the Government. Proposals which are eligible for award will be subject to the Source Selection Tradeoff process, considering both the evaluation Factors and their relative order of importance as cited in Section M.4, to identify the proposal which represents the best value to the Government. The Government will weigh the evaluated proposals (other than the Total Evaluated Cost/Price (TEC/P) Factor) against the TEC/P to the Government. As part of the best value determination, the relative strengths, weaknesses, and risks of each offerors proposal shall be considered in selecting the offer that is most advantageous and represents the best value to the Government. The Government may choose not to award a contract where it concludes that no proposal exists with a reasonable probability of complying with contract terms and conditions.

Selection of the successful Offeror shall be made following an assessment of each proposal, based on the response to the information requested in Section L of this solicitation and against the solicitation requirements and the evaluation criteria described in Section M. Proposals will be evaluated as specified herein, to include developing narrative support for the evaluation conclusions under each Factor

**M.3.1 Importance of Total Evaluated Cost/Price (TEC/P)**

Award will be made to the Offeror whose proposal is the most advantageous and represents the best value to the Government. This determination may result in award to other than the Offeror with the lowest TEC/P. However, the closer Offerors evaluations are in Factors, other than the TEC/P Factor, the more important TEC/P becomes in the decision. Notwithstanding the relative order of importance of the five evaluation Factors as stated, TEC/P may be the controlling Factor when:

- (a) proposals are otherwise considered approximately equal in non-TEC/P factors; or
- (b) an otherwise superior proposal is unaffordable; or
- (c) the advantages of a higher rated, higher TEC/P proposal are not considered to be worth the TEC/P premium;

**M.3.2 Affordability**

The Government will review the Offerors Contract Cost/Price Proposal to verify the Offerors proposal is affordable. No proposal, no matter how highly rated under the non-Cost/Price Factors, will be considered for award if unaffordable. Affordability will be based on (1) the Governments Available Funding (M.3.2.1) and (2) the Average Unit Manufacturing Cost (AUMC) (M.3.2.2). Failure to meet one or both Affordability requirements described in M.3.2.1 and M.3.2.2 below will render an offeror ineligible for award.

**M.3.2.1 Available Funding**

An evaluated Contract Cost/Price (M.4.2.2) exceeding any of the affordability limits identified in Attachment 0070 (Contract Cost/Price Worksheet) will be considered unaffordable and ineligible for award.

**M.3.2.2 Average Unit Manufacturing Cost (AUMC)**

A proposal containing an AUMC greater than \$250,000 in Base-Year 2011 dollars as calculated in Attachment 0070 will be considered unaffordable and ineligible for award. AUMC is defined as average cost to the Government to buy JLTV vehicle configurations. The unit manufacturing cost reflects the projected vehicle contract price for each JLTV configuration to include all direct and indirect cost. The unit manufacturing costs includes all overheads applicable to vehicle contract prices including General and Administrative (G&A), Cost of Money, and Profit. Non-recurring costs must be accounted for and may be amortized over the vehicle quantity buy. The recurring costs include the costs of material, labor, and other expenses incurred in the fabrication, checkout, and processing of parts,

**Name of Offeror or Contractor:**

subassemblies, and major assemblies/ subsystems needed for the final system. The manufacturing cost also includes recurring costs of subcontractors and purchased parts/equipment. The manufacturing cost further includes recurring costs of the efforts to integrate and assemble the various subassemblies into a working system, recurring costs to install special and general equipment, and recurring costs to paint and package the system for shipment to its acceptance destination. It also includes moves in order to assemble into a final system. This is the price of the vehicle rolling off the line in its basic configuration, including Baseline Integration Kit, before B-Kit armor or other kits, as defined in the JLTV Purchase Description (Attachment 0001) are added.

**M.3.3 Source Selection Authority (SSA)**

The SSA is the official designated to direct the source selection process and select the Offeror for contract award.

**M.3.4 Source Selection Advisory Council (SSAC)**

A Source Selection Advisory Council (SSAC) will provide a written comparative analysis of the proposals and an award recommendation for the SSA prior to the selection decision.

**M.3.5 Source Selection Evaluation Board (SSEB)**

An SSEB has been established by the Government to evaluate proposals in response to this solicitation. The SSEB is comprised of technically qualified individuals who have been selected to conduct an evaluation in accordance with the evaluation criteria listed for this solicitation. Careful, full, and impartial consideration will be given to all proposals received in response to this solicitation.

**M.3.6 Determination of Responsibility**

Per FAR 9.103, a contract will be placed only with an Offeror that the Contracting Officer determines to be responsible. A prospective Offeror, in order to be eligible for award for this acquisition, must be able to demonstrate it meets the standards of responsibility set forth in FAR 9.104. The Government reserves the right to conduct a Pre-Award Survey on any or all Offeror(s) or its subcontractors to aid the Contracting Officer in the evaluation of each Offeror's proposal and ensure a selected Offeror is responsible.

Additional requirements of responsibility for this contract are the necessary Defense Security Service (DSS) Facility Clearances.

No award can be made to an Offeror who has been determined to be not responsible by the Contracting Officer.

To verify an Offeror meets the responsibility criteria at FAR 9.104, the Government reserves the right to request additional information, to include, but not limited to the following:

- (a) arrange a visit to the offeror(s) plant and perform a necessary Pre-Award Survey, or
- (b) request an Offeror provide financial, technical, production, or managerial background information. If the requested information is not submitted within seven working days from the date of the receipt of the request, or if an Offeror refuses to provide the Government access to its facility, the Government may determine the Offeror to be non-responsible. If the Government visits the Offeror's facility, the offeror shall ensure current data relevant to the proposal is available for Government personnel to review.

**M.3.7 Consistency**

The Government may conduct a crosswalk between the Offerors proposal volumes to ensure the Offeror submits consistent proposal information as required by L.2.9. Any inconsistency between proposal volumes, which indicates the offeror has an inherent misunderstanding of the requirements or an inability to perform the resultant contract, may result in an offeror being determined ineligible for award or being assessed with increased risk.

**M.4 Evaluation Criteria**

There are five evaluation Factors:

- (a) Volume 1: Factor 1 Primary Technical (M.4.1);
- (b) Volume 2: Factor 2 Total Evaluated Cost/Price (TEC/P) (M.4.2);
- (c) Volume 3: Factor 3 Secondary Technical (M.4.3);
- (d) Volume 4: Factor 4 Manufacturing Readiness (M.4.4);
- (e) Volume 5: Factor 5 Small Business Participation (M.4.5);

Relative Order of Importance: Primary Technical is slightly more important than TEC/P. TEC/P is slightly more important than Secondary

**Name of Offeror or Contractor:**

Technical. Secondary Technical is of approximately equal importance to Manufacturing Readiness. Manufacturing Readiness is more important than Small Business Participation. As required to be defined by FAR 15.304(e), the non-TEC/P factors, when combined, are significantly more important than the TEC/P Factor.

**M.4.1 Primary Technical Factor**

The Primary Technical Factor will assess the proposal risk probability that the Offerors JLTV will achieve the threshold performance levels for each PD requirement identified in Attachment 0061 (Primary Technical Performance Requirements List). Each PD requirement identified in Attachment 0061 is weighted equally and will be evaluated as such. The risk assessment of each requirement will consider the proposed performance of the JLTV Family of Vehicles (FoV), in accordance with PD definitions and requirements, including PDFOV-875 and PDFOV-942.

Government test data which establishes conformance to the offered configuration represents the most credible form of substantiating data. Substantiating data other than government test data will be considered less credible. Any substantiating data for a design configuration which meaningfully varies from the offered design configuration may be considered less credible. The greater the extent to which the Offerors proposed design configuration meaningfully varies from the originally tested configuration or testing conducted under different conditions, the greater the probability that the Government may discount the validity of the test data as substantiating information.

**M.4.1.1 Substantiating Data**

The Government will review the proposal data required in Section L to to conduct its Primary Technical evaluation of the Offerors proposal. The Government reserves the right to utilize Government Test Data to supplement the substantiating data provided in the Offerors proposal. Offerors are required to submit the information and supporting data required for the other factors by separate stand alone submission in each of the appropriate volumes. Offerors shall not assume data submitted for the Primary Technical Factor will be considered for the other Factors of the proposal. However, the Government reserves the right to utilize this data in other areas of the evaluation at its sole discretion.

**M.4.1.2 Exceeding Threshold Performance**

No additional evaluation credit will be given in the Primary Technical Factor for exceeding the threshold performance levels identified in Attachment 0061 (Primary Technical Performance Requirements List) except to the extent that credible performance beyond the threshold level may reduce the risk of achieving the threshold performance level.

**M.4.1.3 Proposing Below Threshold Performance**

No proposal, no matter how highly rated under the other Factors, will be considered for award if the Offerors proposed level of performance for any of the PD requirement identified in Attachment 0061 (Primary Technical Performance Requirements List) is below the requirements threshold value.

**M.4.1.4 Use of Proposed Tier 1 Objective Requirements And Proposed Secondary Technical Requirements In Primary Technical Risk Evaluation**

While risk will not be assessed or evaluated under Tier 1 Objective Requirements within the TEC/P Factor or under the Secondary Technical Factor, the Offeror's proposed PD performance under Tier 1 Objective Requirements within the TEC/P Factor and under the Secondary Technical Factor may be considered in the risk assessment under the Primary Technical Factor evaluation as described in M.4.2.5 and M.4.3.

**M.4.2 Total Evaluated Cost/Price (TEC/P) Factor**

The Government will evaluate Offerors for award by summing the Evaluated Cost/Price to the Government as detailed in Sections M.4.2.1 through M.4.2.5 below. The TEC/P is equal to the Offerors Base-Year FY2011 dollars (BY11\$) adjusted Evaluated Contract Cost/Price as defined by Section M.4.2.2.3 modified by the Life Cycle Cost Adjustment, Technical Data Package Adjustment, and Tier 1 Objective Requirements Adjustment.

TEC/P = BY11\$ Adjusted Evaluated Contract Cost/Price LCC Adjustment TDP Adjustment Tier 1 Objective Requirement Adjustment

BY11\$ Adjusted Evaluated Contract Cost/Price = Attachment 0070

LCC Adjustment = Attachment 0071

TDP Adjustment = Attachment 0072

Tier 1 Objective Requirement Adjustment = Attachment 0073

**Name of Offeror or Contractor:**

The Total Evaluated Cost/Price may differ from the total proposed cost/price. The Total Evaluated Cost/Price, rather than the total proposed cost/price, shall be used in the trade-off evaluation to determine best value.

**M.4.2.1 Then-Year Dollars (TY\$) to Base-Year FY2011 Dollars (BY11\$) Conversion**

For the purposes of calculating the TEC/P, the Offerors proposed Contract costs/prices will be converted from TY\$ to BY11\$. This conversion removes the effects of inflation on the Offerors proposed costs/prices and is required to calculate the TEC/P as detailed in Sections M.4.2 through M.4.2.5. The conversion will be automatically calculated by Attachment 0070.

**M.4.2.2 Contract Cost/Price**

The Contract Cost/Price evaluation will consider the evaluated contract cost/price to the Government based on the information submitted in response to Section L.4.2.1. The evaluation of the evaluated contract cost/price will include consideration of the reasonableness of the proposed Firm-Fixed-Price CLINs, and the reasonableness and realism of the proposed Cost Reimbursement CLINs. Cost/Price reasonableness and cost realism may be evaluated by various means such as historical data and experience available from Government sources. For Cost Reimbursement CLINs (STS CLINs and ICS CLINs 0090-7190), the Cost Realism assessment will be used to determine the most probable cost to the Government. Fixed Price CLINs are not subject to the realism adjustment.

**M.4.2.2.1 Cost/Price Reasonableness**

The Government shall evaluate the reasonableness of the Offeror's proposed prices and costs in accordance with FAR 31.102 and the definition in FAR Part 31.201-3. A price or cost is reasonable if, in its nature and amount, it does not exceed that which would be incurred by a prudent person in the conduct of competitive business. The Government may make a determination of reasonableness by any means allowable under FAR 15.404-1.

**M.4.2.2.2 Cost Realism**

The Government shall evaluate realism by independently reviewing and evaluating the specific elements of the Offeror's proposed cost estimate to determine whether the cost accurately reflects the Offeror's proposed effort to meet program requirements and objectives. The result of the realism evaluation will be a determination of the most probable cost to the Government (which consists of cost and fee) of performance for the Offeror. The most probable cost will be determined by adjusting the Offeror's proposed cost in TY\$ to reflect any additions or reductions to cost elements to realistic levels based on the results of the cost realism analysis. Any cost realism adjustments will be applied at the sub-CLIN level and will be converted to BY11\$ on the same basis as specified for those sub-CLINs in Attachment 0070.

**M.4.2.2.3 Evaluated Contract Cost/Price**

The Evaluated Contract Cost/Price will consist of the sum of the evaluated prices for each sub-CLIN according to the formulas on the Summary Tab in Attachment 0070. This amount is subject to a cost realism adjustment in accordance with M.4.2.2.2 for evaluation purposes.

**M.4.2.2.4 Evaluated Extended Prices**

For each of the eight Option Periods, the evaluated extended prices (except for the TDP) will be the weighted average unit price multiplied by the estimated quantity for that Option Period as stated in Attachment 0070. Weighted average unit prices will be the summation of the proposed unit prices for each range multiplied by the Government provided factor for that range.

CLINs, Estimated CLIN Quantities, Range Quantities, and Factors are contained in Attachment 0070.

**M.4.2.2.4.1 Evaluated TDP Prices**

The evaluated TDP price for the Evaluated Contract Cost/Price will equal the highest proposed BY11\$ price.

**M.4.2.2.5 Verification**

Defense Contract Audit Agency (DCAA) and Defense Contract Management Agency (DCMA) may be requested to verify rates and projections. The Government may use other resources in the evaluation of the Cost/Price proposal.

**M.4.2.2.6 Unbalanced Pricing**

Unbalanced pricing exists when, despite an acceptable total evaluated price, the price of one or more contract line items, and the ranges within, is significantly over- or understated as indicated by the application of cost and price analysis techniques. Offerors are cautioned that a proposal the Government assesses to be unbalanced as to price, may either be rejected in accordance with (IAW) M.2 or determined unacceptable for award.

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> PIIN/SIIN W56HZV-14-R-0039	<b>Page 262 of 265</b> MOD/AMD
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**Name of Offeror or Contractor:**

M.4.2.3 Life Cycle Cost (LCC) Adjustment

The Life Cycle Cost (LCC) Adjustment evaluates the information submitted in response to section L.4.2.2 to assess the Governments anticipated future Operations and Sustainment costs for consumable and reparable parts, and fuel necessary to sustain and operate the Offerors proposed vehicles. This adjustment is automatically calculated by Attachment 0071 (LCC Adjustment Calculator) based on the Offerors proposed Operating Fuel Efficiency (PDFOV-3388), Idle Fuel Consumption Rate (PDFOV-8192), Mean Miles Between Hardware Mission Failure (PDFOV-2909), Vehicle Prices, and Contractor Furnished Equipment Kit Prices. The LCC Adjustment calculated by Attachment 0071 (LCC Adjustment Calculator) will be subtracted from the Offerors Total Evaluated Cost/Price to credit the Offeror for potential future savings the Government may realize due to decreased Operations and Support costs.

Proposed LCC inputs will not be evaluated for risk under the LCC Adjustment evaluation, nor will an uncertainty analysis be performed on the input variables or in the LCC Adjustment Calculator. However, for the selected vendor, the level of performance proposed by the Offeror will be incorporated into the Government Purchase Description.

M.4.2.4 Technical Data Package (TDP) Adjustment

The TDP Adjustment will evaluate information submitted in response to Section L.4.2.3 to assess the Governments anticipated future savings based on the degree to which the offerors proposed data rights support future full and open competitive acquisitions. The resulting TDP adjustment will be subtracted from the Offerors TEC/P to credit the offeror for future savings the Government may realize during future competitions through use of a competitive TDP.

M.4.2.4.1 Technical Data Package (TDP) Adjustment Formula

The TDP Adjustment will be calculated in accordance with the following equation. In the event the Offerors Highest Proposed TDP Price is greater than or equal to \$511,000,000 (BY11\$), the TDP Adjustment will equal the offerors Highest Proposed TDP price. The TDP Adjustment will be in BY11\$.

The TDP Adjustment is calculated as:

If Highest Proposed TDP Price  $\geq$  \$511,000,000 (BY11\$),

TDP Adjustment = X

If Highest Proposed TDP Price  $<$  \$511,000,000 (BY11\$),

TDP Adjustment =  $X + ((Z - X) * Y)$

Where:

X = Offerors Highest Proposed TDP Price

Y = Competitive Utility Multiplier

Z = Government Baseline Savings (see M.4.2.4.1.2)

NOTE: The effective TDP Adjustment Formula =  $(Z - X) * Y$ . The equation shown above removes the initial cost from the Contract Cost/Price before applying the TDP Adjustment, and should not be applied without also accounting for this price, i.e.  $X - X - [(Z - X) * Y]$ .

M.4.2.4.1.1 Proposed TDP Price

The offerors proposed TDP price will be evaluated as part of the Contract Cost/Price under M.4.2.2 separately from the TDP Adjustment Evaluation conducted in accordance with M.4.2.4 will not impact the Contract Cost/Price Evaluation under Section M.4.2.2. However, the Offerors proposed TDP price is subtracted from the Total Evaluated Cost/Price as part of the equation described in Section M.4.2.4.1.

M.4.2.4.1.2 Government Baseline Savings

The Governments baseline savings is \$511,000,000 BY11\$. This baseline savings represents the savings the Government expects to yield if the offerors proposed TDP supports future full and open competitive acquisitions. The baselines savings is calculated as a five percent savings on the JLTVs the Government anticipates acquiring in future acquisitions. In the event the Offerors TDP Proposed Price is greater than or equal to \$511,000,000 (BY11\$), the TDP Adjustment will equal the offerors proposed TDP price as the Government will not expect to yield any savings and therefore the Government will not benefit from any increased competitive utility.

M.4.2.4.1.3 Competitive Utility Multiplier

**Name of Offeror or Contractor:**

The competitive utility multiplier represents an assessment of the capability of the Government to utilize the proposed TDP for future competition (i.e., Competitive Utility), and will be applied based on the evaluation of Attachment 0072 (TDP BOM). The evaluation will take into account the degree to which the offeror identifies components as OEM Source Controlled, the components which the offeror proposes to be OEM Source Controlled, and the impact of those components to competitive utility and future competitive procurements. In general, Source Controlled components are considered less advantageous to the Government and competitive rights components (Government Purpose or Unlimited Rights) are considered more advantageous to the Government. Proposing a TDP with significant quantities of OEM Source Controlled components, or with key vehicle components identified as OEM Source Controlled, generally will result in a lower competitive utility multiplier. There are four possible competitive utility multipliers: 0.00, 0.33, 0.67, and 1.00. Descriptions of each multiplier are as follows:

(a) 0.00 Multiplier: Represents a proposed TDP that has minimal to no competitive utility. A 0.00 multiplier will be applied to a proposal that declines to propose a TDP, or a TDP that proposes significant quantities of OEM Source Controlled components.

(b) 0.33 Multiplier: Represents a proposed TDP that has significantly degraded competitive utility. A 0.33 multiplier will be applied to a proposal for a TDP which, if purchased, would not support the use of the TDP for competition without significant reverse engineering and/or qualification testing for secondary sources.

(c) 0.67 Multiplier: Represents a proposed TDP that has slightly degraded competitive utility. A 0.67 multiplier will be applied to a proposal for a TDP which if purchased, would support the use of the TDP for competition with limited reverse engineering and/or qualification testing for secondary sources.

(d) 1.00 Multiplier: Represents a proposed TDP that has full competitive utility. A 1.00 multiplier will be applied to a proposal for a TDP which, if purchased, would immediately support the use of the TDP for competition. This proposed TDP would not feature any OEM Source Controlled components.

**M.4.2.4.2 Declining to Propose Data Rights**

Offerors declining to propose an option for the Government to acquire rights in technical data greater than the rights to which the Government is already entitled, i.e., declining to provide an option to give the Government rights to support competition, will not receive a TDP adjustment. In accordance with 10 USC 2320 and DFARS 227.7103-1 offerors are not required, either as a condition of being responsive to a solicitation or as a condition for award, to sell or otherwise relinquish to the Government any rights in technical data related to items, components or processes developed exclusively at private expense. An offeror that does not propose to sell or otherwise relinquish any rights in technical data related to items, components or process developed exclusively at private expense will still be considered responsive.

**M.4.2.5 Tier 1 Objective Requirements Adjustment**

The Tier 1 Objective Requirement Adjustment will give credit, in the form of a TEC/P downward adjustment, for proposed performance above threshold levels identified in Attachment 0073 (Tier 1 Objective Requirements Adjustment). The total Tier 1 Objective Requirement Adjustment will be the sum of the adjustment for each requirement, and will be subtracted from the Offerors TEC/P to credit the Offeror for the increased technical value associated with meeting a Tier 1 Objective Requirement.

Each Tier 1 Objective requirement is eligible for an equal amount of credit. The Government will give full credit for a requirement to which the Offeror proposes full compliance. For performance between threshold and objective, the value of the objective adjustment for each requirement is defined in Attachment 0078 (Objective Adjustment Scales). For the four survivability objectives identified in Attachment 0078, no partial credit will be given, these requirements are either met or not met at the objective level. Proposed performance above the Objective will receive no additional credit.

Proposed performance will not be evaluated for risk under the Tier 1 Objective Requirements Adjustment. However, for the selected vendor, the levels of performance proposed by the Offeror will be incorporated into the contractually binding Purchase Description as threshold requirements.

Risk will not be assessed or evaluated for Tier 1 Objective Requirements. However, the offeror's proposed Tier 1 Objective performance in accordance with M.4.2.5 which exceeds threshold performance requirements may reduce offerors risk as provided in M.4.1.2. In addition, proposed performance in Tier 1 Objective in accordance with M.4.2.5 may result in increased risk of performance under the Primary Technical Factor.

**M.4.3 Secondary Technical Factor**

The Secondary Technical Factor will assess the proposed vehicle compliance with JLTV requirements contained within Tiers 2-5 of the PD. Points will be awarded for each compliance claimed by the Offeror in Attachment 0074 (Requirements Compliance Matrix) based on the relative priority of the requirement Tier. The Offeror will only receive credit for full compliance to the requirement; no partial

**Name of Offeror or Contractor:**

credit will be assigned. The point credits by Tier are as follows:

Tier 2 12 points per requirement;  
Tier 3 6 points per requirement;  
Tier 4 4 points per requirement;  
Tier 5 1 point per requirement;

The Government will calculate a total number of points for the Secondary Technical Factor by adding together all points credited for the Offerors requirements compliances. A higher number of points will be evaluated as more advantageous to the Government in the source selection tradeoff.

Proposed performance will not be evaluated for risk under the Secondary Technical Factor. However, for the selected vendor, each compliance the Offeror identifies in Attachment 0074 (Requirements Compliance Matrix) will be incorporated into the contractually binding Purchase Description as a Threshold requirements.

While risk will not be assessed or evaluated for Secondary Technical Factor requirements, proposed performance under the Secondary Technical Factor may influence the risk of performance under the Primary Technical Factor.

In addition, the Contractor shall comply with H.2.1 and deliver vehicles which meet the demonstrated and observed levels of performance for Tier 2-5 requirements during PQT testing even though the Contractor indicates in their proposal that they will not comply with the Tier 2-5 requirement. A contract modification will be unilaterally issued after contract award and the contractor agrees that this change will be at no cost to the government.

**M.4.4 Manufacturing Readiness Factor**

The Manufacturing Readiness Factor will assess the proposal risk probability (based on the information supplied in response to Section L.4.4) that the Offeror and its subcontractors will utilize a Manufacturing Readiness Approach which is capable of achieving timely delivery of the acceptable vehicles as stated in the delivery schedule contained within Attachment 0075 (Manufacturing Readiness Delivery Schedule).

**M.4.4.1 Manufacturing Facilities**

The Government will assess the risk that the Offerors, and its subcontractors, manufacturing facilities are sufficient to be able to produce the delivery quantities specified in Attachment 0075 (Manufacturing Readiness Delivery Schedule) based on the information the Offeror submits in response to L.4.4.2.1 through L.4.4.2.1.3. An Offeror that currently has existing facilities which can be utilized, or modified, to build JLTVs to the delivery quantities in Attachment 00745 (Manufacturing Readiness Delivery Schedule) may be considered to have less risk than an Offeror that has to acquire facility(ies) to produce vehicles on this contract.

**M.4.4.2 Time Phased Critical Path (TPCP)**

The Government will evaluate the Offerors TPCP to determine the risk that the Offerors critical path identifies all significant actions required to meet the vehicle delivery requirements specified in Attachment 0075 (Manufacturing Readiness Delivery Schedule). An Offeror with a TPCP which fully substantiates key events which are reasonable in duration and sequence will be considered to have less risk than an Offeror with a TPCP which does not fully substantiate key events which are reasonable in duration and sequence.

**M.4.4.3 Key Tooling and Equipment**

The Government will assess the risk of the Offerors, and its subcontractors, proposed Key Tooling and Equipment are sufficient to be able to produce the delivery schedule quantities specified in Attachment 0075 (Manufacturing Readiness Delivery Schedule) based on the information the Offeror submits in response to L.4.4.2.3 through L.4.4.2.3.3. This risk assessment will consider any existing Key Tooling and Equipment the Offeror proposes to use as well as the Offerors plan to acquire any new Key Tooling and Equipment needed to support production. The Government will also assess the risk that the milestone schedule for acquiring Key Tooling and Equipment provided by the Offeror will reduce or increase the risk of complying with timely production of key components and vehicles. An Offeror which currently has existing Key Tooling and Equipment may be considered to have less risk than an Offeror which needs to acquire new Key Tooling and Equipment.

**M.4.4.4 Subcontractor Letters of Commitment**

The Government will assess the risk that the Offeror has firm commitments from major subcontractors needed to ensure timely receipt of major components and assemblies in sufficient time to allow the Offeror to meet the delivery requirements specified in Attachment 0075 (Manufacturing Readiness Delivery Schedule). An Offeror which has firm subcontractor letters of commitment from major subcontractors will be considered to have less risk than an Offeror without firm subcontractor letters of commitment.

**M.4.4.5 Production Approach**

**Name of Offeror or Contractor:**

The Government will assess the Offerors Production Approach to determine the risk that the Offeror will achieve timely delivery of JLTVs in accordance with the quantities and schedule specified in Attachment 0075 (Manufacturing Readiness Delivery Schedule). An Offeror with a logical and a sufficiently detailed facility(ies) layout and progressive physical flow of hardware will be considered to have less risk than an Offeror without a logical and a sufficiently detailed facility(ies) layout and progressive physical flow of hardware.

**M.4.4.6 Manpower and Personnel**

The Government will evaluate the Offerors Manpower and Personnel to determine the risk that the Offeror will have sufficient manpower and personnel to produce JLTVs in a timely manner to meet the delivery requirements specified in Attachment 0075 (Manufacturing Readiness Delivery Schedule). An Offeror which has sufficiently identified all production labor required to produce the JLTV identified in Section L.4.4.2.6 will be considered less risk than an Offeror which has not sufficiently identified all production labor required to produce the JLTV. An Offeror with adequate hiring and training plans to satisfy shortfalls in the existing workforce will be considered to have less risk than an Offeror without adequate hiring and training plans to satisfy shortfalls in the existing workforce.

**M.4.5 Small Business Participation Factor**

The Government will evaluate the Offeror's proposed extent of Small Business Participation in the performance of the contract for the Small Business categories listed in Section M.4.5.1 below. The offerors extent of small business participation will be calculated using Dollars for portion of work to be performed by Small Business Prime plus Dollars for portion of work to be performed by First Tier Small Business Subcontractors divided by Total Contract Amount to obtain a percentage. Therefore, if the Offeror is itself a U.S. small business concern under the North American Industry Classification System (NAICS) code applicable to this solicitation (to include U.S. small business concerns who are proposing as part of a joint venture or teaming arrangement), the Government will consider the Offerors own portion of the work to be performed as Small Business Participation for purposes of this evaluation.

**M.4.5.1 Small Business Participation Evaluation**

The evaluation will consist of the following:

(a) The extent to which the proposal identifies participation by U.S. small business concerns to achieve the Government's goals for U.S. small businesses (SBs) in the categories listed below and expressed as percentage of Total Contract Amount. The term Total Contract Amount is defined for evaluation purposes as total proposed amount for the Basic EMD CLIN and all of the LRIP/FRP Option CLINs.

- 15% for Small Business (SB)
- 2% for Small Disadvantaged Business (SDB)
- 2% for Woman Owned Small Business (WOSB)
- 1.2% for Historically Underutilized Business Zone Small Business (HubZone SB)
- 1.2% for Veteran Owned Small Business (VOSB)
- 1.2% for Service Disabled Veteran Owned Small Business (SDVOSB)

(b) An assessment of the proposal risk probability that the Offeror will achieve the levels of Small Business Participation identified in the proposal. The assessment of probability or risk is against the Offerors proposed goal and not the Governments goals listed above for this Request for Proposal. If the Offeror is awarded the contract, the Offerors proposed goals will be incorporated into the contract and will be the goals against which performance will be measured. If the awardee is other than a small business, the proposed goals will be incorporated via the Small Business Subcontracting Plan goals, which shall be consistent with the goals proposed for the Small Business Participation Factor.

\*\*\* END OF NARRATIVE M0001 \*\*\*