

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT1. Contract ID Code
Firm Fixed Price

Page 1 Of 111

2. Amendment/Modification No.

0001

3. Effective Date

2015JAN14

4. Requisition/Purchase Req No.

SEE SCHEDULE

5. Project No. (If applicable)

6. Issued By

U.S. ARMY CONTRACTING COMMAND
CHARLES B. SCOTT
WARREN, MICHIGAN 48397-5000
HTTP://CONTRACTING.TACOM.ARMY.MIL

Code

W56HZV

7. Administered By (If other than Item 6)

Code

8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code)

9A. Amendment Of Solicitation No.

W56HZV-14-R-0039

9B. Dated (See Item 11)

2014DEC12

10A. Modification Of Contract/Order No.

10B. Dated (See Item 13)

Code

Facility Code

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers is extended, is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods:
(a) By completing items 8 and 15, and returning 2 signed copies of the amendments; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. **FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.** If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. Accounting And Appropriation Data (If required)

13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS

It Modifies The Contract/Order No. As Described In Item 14.

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

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

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

SEE SECOND PAGE FOR DESCRIPTION

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

15A. Name And Title Of Signer (Type or print)

16A. Name And Title Of Contracting Officer (Type or print)

15B. Contractor/Officer

15C. Date Signed

16B. United States Of America

16C. Date Signed

(Signature of person authorized to sign)

By _____ /SIGNED/
(Signature of Contracting Officer)

NSN 7540-01-152-8070

30-105-02

STANDARD FORM 30 (REV. 10-83)

PREVIOUS EDITIONS UNUSABLE

Prescribed by GSA FAR (48 CFR) 53.243

Name of Offeror or Contractor:

SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: CHARLES B. SCOTT
Buyer Office Symbol/Telephone Number: CCTA-HTB-A/(586)282-0726
Type of Contract 1: Firm Fixed Price
Type of Contract 2: Cost Plus Fixed Fee
Kind of Contract: System Acquisition Contracts

*** End of Narrative A0000 ***

A. The purpose of Amendment 0001 is to make the following changes; all other terms and conditions of Solicitation W56HZV-14-R-0039 remain unchanged:

1. Section C, Paragraph C.2.1.1.5.7 Engineering Change Proposal; add the following language, "All changes proposed by the Contractor shall be at the Contractor's cost. All changes generated by the Government will be funded by the Government unless an exception in section H.7 applies. Government approval of the ECP does not constitute relief from vehicle performance requirements. (CDRL B023, ECP)"

2. Section C, add paragraph; "C.2.1.6.1.1.2 Systems Interoperability Post-LRIP. The Contractor shall provide and deliver interoperable and certifiable systems (as defined in C.2.1.6.1.1) in the post-LRIP phase. The contractor shall conduct recertification examinations prior to the certification expiration date at the CSIL or Government sites."

3. Section C, Paragraph C.2.1.6.1.3 Government System Integration Lab; remove the following language only, "If changes to the GSILs are required as result of the Government ECP, the required efforts will be captured in an STS work directive." This language has been added to paragraph C.2.1.6.1.3.1 (reference paragraph 4 below).

4. Section C, add paragraph; "C.2.1.6.1.3.1 Government Initiated GSIL Change. All changes to the GSIL generated by the Government will be funded by the Government as part of an ECP or STS work directive. If changes to the GSILs are required as result of the Government ECP, the required efforts will be captured in an STS work directive."

5. Section C, revise paragraph C.2.4.2.1.2 Reliability Qualification Testing, Second Paragraph;

Change From: "During the first three months of RQT, Vehicles shall accumulate a cumulative 60,000 miles and shall demonstrate RAM specifications in the Purchase Description (Attachment 0001). At the end of the first segment of RQT, the Government will hold a decision review to determine if PD requirements PDFOV-2908, PDFOV- 8760, PDFOV-2917, PDFOV-3946, PDFOV-2971, and PDFOV-2973, were met. If met, then the Government will continue the next 3 month segment of RQT and continue testing. A second decision review will be held by the Government after 6 months of testing (cumulative 120,000 miles) to determine if the aforementioned purchase description requirements are demonstrated."

Change To: "During the first three months of RQT, Vehicles shall accumulate up to a cumulative 60,000 miles and shall demonstrate RAM specifications in the Purchase Description (Attachment 0001). At the end of the first segment of RQT, the Government will hold a decision review to determine if PD requirements PDFOV-2908, PDFOV- 8760, PDFOV-2917, PDFOV-3946, PDFOV-2971, and PDFOV-2973, were demonstrated. The demonstrated Mean Miles Between Hardware Mission Failure (MMBHMFF) point-estimate is calculated by taking cumulative test miles and dividing by cumulative scored Hardware Mission Failures (HMF) during RQT. The demonstrated Mean Miles Between Essential Function Failure (MMBEFF) point-estimate is calculated by taking cumulative test miles and dividing by the sum of cumulative scored Hardware Mission Failures (HMF) and cumulative scored Essential Function Failures (EFF) during RQT. If demonstrated, then the Government will continue the next 3 month segment of RQT and continue testing. A second decision review will be held by the Government after 6 months of testing (up to a cumulative 120,000 miles) to determine if the aforementioned purchase description requirements are demonstrated."

6. Section C, Paragraph C.2.6.10 Engineering Change Proposals (ECP), Second Paragraph/Second Sentence; change "C.2.1.1.5.7.2" to "H.7"

Change From: All changes generated by the Government will be funded by the Government unless exception in section C.2.1.1.5.7.2 applies.

Change To: "All changes generated by the Government will be funded by the Government unless exception in section H.7 applies."

7. Section H, Paragraph H.1.3.5 Storage and Maintenance, First Sentence; update the max number of vehicle storage & maintenance days from "2,169,930" to "2,211,308"

Change From: "By written notification to the contractor, the Government reserves the right to unilaterally exercise options for up to 2,169,930 vehicle days of Storage and Maintenance for Vehicles on a firm fixed price basis regardless of the JLTV mission package mix (GP, HGC, CCWC, UTL) and the option period which storage and maintenance is ordered under this contract."

Name of Offeror or Contractor:

Change To: "By written notification to the contractor, the Government reserves the right to unilaterally exercise options for up to 2,211,308 vehicle days of Storage and Maintenance for Vehicles on a firm fixed price basis regardless of the JLTV mission package mix (GP, HGC, CCWC, UTL) and the option period which storage and maintenance is ordered under this contract."

8. Section H, Paragraph H.1.3.7 Test Support, First Paragraph; update the last sentence:

Change From: "Test Support lot options will be exercised in yearly increments following the six month period of performance in the base contract."

Change To: "Test Support lot options will be exercised in yearly increments."

9. Section H, Paragraph H.1.3.8 JLTV-FoV Refurbishment;

Change From: "By written notification to the contractor, the Government reserves the right to unilaterally exercise options for up to 97 JLTV-FoV Refurbishment on a firm fixed price basis in any increment during Option Periods One through Five. JLTVFoV Refurbishment options will be exercised in accordance with Attachment 0060. The three Automatic Fire Extinguishing System (AFES) vehicles shall be delivered eight months after contract award at the contractors facilities. For the remaining 94 vehicle refurbished assets delivery shall be three months after contract award and delivery of the vehicles at the contractors facilities. Option Prices will be based on the period that the option is exercised and not the period of delivery (e.g. if a JLTV-FoV Refurbishment options are exercised in the Second Option period and with completion occurring in the Third Option Period, the Government will use the Second Option Period prices)."

Change To: "By written notification to the contractor, the Government reserves the right to unilaterally exercise options for up to 100 JLTV-FoV Refurbishment on a firm fixed price basis in any increment during Option Periods One through Five. JLTVFoV Refurbishment options will be exercised in accordance with Attachment 0060. The three Automatic Fire Extinguishing System (AFES) vehicles shall be delivered eight months after exercising the option at the contractor's facilities. For the remaining 97 vehicle refurbished assets delivery shall be three months after exercising the option and delivery of the vehicles at the contractor's facilities. Option Prices will be based on the period that the option is exercised and not the period of delivery (e.g. if a JLTV-FoV Refurbishment options are exercised in the Second Option period and with completion occurring in the Third Option Period, the Government will use the Second Option Period prices)."

10. Section H, Paragraph H.1.4.2, Second Paragraph; change the period of performance from "70" to "75"

Change From: "The period of performance for ICS shall not exceed 70 months after the date of award of this contract."

Change To: "The period of performance for ICS shall not exceed 75 months after the date of award of this contract."

11. Section L, Paragraph L.4.4.1 Signature Actions/Offeror Fill-Ins:

Change From: 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.

Change To: 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 L with all completed fill-ins, and data required by clauses and provisions incorporated by reference; including all signed copies of Amendments to the solicitation."

12. Section L, revise paragraph L.4.2.1.4.2(b);

Changed from: "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 in FAR 52.215-20(a)(1)(ii)."

Changed to: "For major subcontractors as defined above, if the offeror can demonstrate the subcontract item is either based on adequate price competition or is commercial, cost information from the subcontractor is not required. However, copies of competitive subcontractor price quotes, or the kind of information in FAR 52.215-20(a)(1)(ii) must be provided."

13. Section M; add the following text only, "M.1.2 Reserved."

14. Section J, Attachment 0001 PURCHASE DESCRIPTION (FOUO):

1) Update Section 2.2.

2) Update PDFOV 1719 in Section 3 and Section 4.

Name of Offeror or Contractor:

2) Update PDFOV 2918 in Section 4.

3) Update PDFOV 8104 in Section 3 and Section 4.

4) Update PDFOV 8134 in Section 4.

5) Change the date of Attachment 0001 from "04 Nov 2014" to "05 Jan 2015."

15. Section J, Attachment 0018 HAZARD TRACKING LOG:

1) PHL Worksheet, Second Paragraph/Last Sentence in Cell A2; change "MIL-STD-882D" to "MIL-STD-882E."

2) Update the date of Attachment 0018 from "04 Nov 2014" to "23 Dec 2014."

16. Section J, Attachment 0035 NET PLAN:

1) Page 5, IKPT JLTW Welders/Machinists NET; change the NET Hours/Class from "40" to "80."

2) Page 6; change "Log Demonstration Training FLMNET (20 Max/Class, 16 Hours/Class, 4 Classes)" to "Log Demonstration Familiarization Training FLMNET (15 Max/Class, 16 Hours/Class, 4 Classes)."

3) Update the date of Attachment 0035 from "04 Nov 2014" to "22 Dec 2014."

17. Section J, Attachment 0050 FIELDING LOCATION AND SCHEDULE (FOUO), Notional Schedule Worksheet;

1) Update the notional fielding schedules for Army and USMC.

2) Add the following language, "All quantities & schedules on this worksheet are notional and included in order to provide the Offeror with notional values which shall be utilized when developing proposal values.

None of the notional quantities on this worksheet are contractually binding and they all are subject to change. All quantities on this worksheet will be removed from the attachment at contract award; contractually binding values will be added when TPF options are exercised."

3) Change the date of Attachment 0050 from "04 Nov 2014" to "23 Dec 2014."

18. Section J, Attachment 0056 VEASAM (FOUO):

1) Reference the "Change Log Worksheet" for the update.

2) Update the date of Attachment 0056 from "12 Dec 2014" to "22 Dec 2014."

19. Attachment 0060 Option Pricing Matrix (FOUO):

1) CLIN Structure Worksheet, CLIN Naming Convention;

a. Update cells C12 through C14 to be consistent with RFP Section B.

b. Sub-topic: Acronyms Used in the SOW to CLIN Crosswalk Sub-topic; remove "FOV" and "JLTV-FoV."

c. Sub-topic: Acronyms Used in the SOW to CLIN Crosswalk; add "HW (Hardware)."

2) SOW to CLIN Crosswalk Worksheet;

a. Add "C.2.1.6.1.1.2 Systems Interoperability Post-LRIP" and "C.2.1.6.1.3.1 Government Initiated GSIL Changes."

b. Remove "C.2.3.3.11.4.2 Fault Inducement Kits for NET Training."

c. Add "C.5.3.4 Fault Inducement Kits for NET Training."

3) Crosswalk Codes Worksheet, Row 34; change CLIN Code/CLIN Title/CLIN:

a. CLIN Code, change from "FOV" to "HW."

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 5 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

b. CLIN Title, change from "JLTV-FoV Unit Cost" to "JLTV Hardware Cost."

c. CLIN(s), change from "xx01-16" to "xx01-16, xx19."

4) Change the date of Attachment 0060 from "01 Dec 2014" to "05 Jan 2015."

20. Section J, Attachment 0066 Reliability Availability Maintainability (RAM) Data Sheet, Page 2;

1) Under the first bullet Offerors Ao and MMBHMF based on Engineering and Manufacturing Development (EMD) RAM Testing Data;

Change From:

"- Calculated Ao for:

*The Demonstrated MMBHMF

*The Assessed MMBHMF"

Change To:

"- Calculated Ao for:

*The Demonstrated MMBHMF converted to MMBOMF

*The Assessed MMBHMF converted to MMBOMF

*For Ao the conversion from MMBHMF to MMBOMF is as follows: $MMBOMF = 0.6316 * (MMBHMF)$."

2) Under the third bullet Offerors proposed Ao, MMBHMF, and MR.; add the following sub-bullet, "For Ao the conversion from MMBHMF to MMBOMF is as follows: $MMBOMF = 0.6316 * (MMBHMF)$."

3) Change the date of Attachment 0066 from "04 Nov 2014" to "23 Dec 2014."

21. Section J, Attachment 0068 CREW SEATING DATA SHEET (FOUO):

1) Reference Change Log Worksheet for the update.

2) Change the date of Attachment 0068 from "04 Nov 2014" to "23 Dec 2014."

22. Section J, Attachment 0070 Pricing Matrix (FOUO), revise in accordance with the following seven updates:

1) Vehicle Install Kit Quantities Worksheet; Sub-CLIN 0007AA, HGC Configuration, change the ITDS Kit quantity from "1" to "0."

2) Vehicles-GP, Vehicles-CCWC, Vehicles-UTL and Trailer Worksheets; in the Worksheet Specific Instructions (third paragraph); references to CLIN Code "FOV" have been changed to "HW"

Change From: "These types of costs include but are not limited to both recurring touch labor and material and also includes any necessary production management overheads such as program finance support, inventory management costs associated with the production line, upkeep of the TDP and other configuration control documents necessary to produce the JLTV vehicles and all other scope of work as identified with the vehicle and trailer production CLINs in accordance with the Scope of Work to CLIN crosswalk (i.e. have CLIN Codes FOV) found in Attachment 0060."

Change To: "These types of costs include but are not limited to both recurring touch labor and material and also includes any necessary production management overheads such as program finance support, inventory management costs associated with the production line, upkeep of the TDP and other configuration control documents necessary to produce the JLTV vehicles and all other scope of work as identified with the vehicle and trailer production CLINs in accordance with the Scope of Work to CLIN crosswalk (i.e. have CLIN Codes HW) found in Attachment 0060."

3) TPF Worksheet; "TPF hours" by period have been updated to be consistent with the notional fielding schedule found in Attachment 0050.

4) Storage & Maintenance Worksheet; update the "vehicle storage days" by period to be consistent with the notional fielding schedule found in Attachment 0050. In total, the maximum number of vehicle storage & maintenance days has increased from "2,169,930" to "2,211,308."

5) Material Handling Worksheet; "USG Estimated Material costs" have been updated to be consistent with the updated notional fielding schedule in Attachment 0050, updated "TFP hours", and "storage days" found within Attachment 0070. As a result, this update subsequently caused updates to Worksheets titled "Contract Cost Price Summary", "Subtotal Prices", and "Affordability Review."

6) Affordability Review Worksheet; conditional formatting of Cells "A40 and A41" were updated to display in red if affordability

Name of Offeror or Contractor:

limits were exceeded.

7) JLTV-FoV Refurbishment; The "phasing of refurbishment" quantities by period have been updated to be consistent with Attachment 0050 VEASAM.

8) Change the date of Attachment 0070 from "12 Dec 2014" to "06 Jan 2014."

23. Section J, Attachment 0084 JLTV LRIP AND FRP VEHICLE KIT MATRIX (FOUO):

1) Base Award-Installed Kit Worksheet; remove one install ITDS from HGC2; change quantity from "1" to "0."

2) Update the date of Attachment 0084 from "12 Dec 2014" to "22 Dec 2014."

24. Section J, revise the Attachment file name only:

1) Attachment 0054; change "JLTV FDSC rev3.3a (7 Aug 2012)" to "JLTV FDSC (FOUO)."

2) Attachment 0055; change from "JLTV OMSMP Ver 3.3 (12 Jan 2012)" to "JLTV OMSMP (FOUO)."

3) Attachment 0078; change from "Objective Adjustment Scales (V 1.4)" to "Objective Adjustment Scales (FOUO)."

B. Offerors must acknowledge receipt of this Amendment Number in accordance with Solicitation Provision 52.214-4000, entitled Acknowledgement of Amendments.

*** END OF NARRATIVE A0002 ***

Name of Offeror or Contractor:SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT
TABLE OF CONTENTS

C.1 GENERAL

C.1.1 SYSTEM REQUIREMENT

C.1.2 PROGRAM SCHEDULE AND DATA

C.1.3 MEETINGS/AUDITS/ASSESSMENTS/REVIEWS

C.1.4 BUSINESS MANAGEMENT

C.1.5 PROGRAM PROTECTION

C.1.6 INFORMATION SECURITY

C.1.7 GOVERNMENT FURNISHED EQUIPMENT (GFE) AND INTEGRATION AND GOVERNMENT FURNISHED INFORMATION (GFI)

C.2 PRODUCTION

C.2.1 SYSTEMS ENGINEERING

C.2.2 RELIABILITY, AVAILABILITY, AND MAINTAINABILITY (RAM) PROGRAM

C.2.3 INTEGRATED PRODUCT SUPPORT (IPS)

C.2.4 VERIFICATION AND VALIDATION ACTIVITIES

C.2.5 TEST DEFICIENCIES AND FAILURES

C.2.6 TECHNICAL DATA PACKAGE PURCHASE OPTION

C.3 SYSTEM TECHNICAL SUPPORT

C.3.1 GENERAL

C.3.2 SYSTEM ENGINEERING AND TECHNICAL EFFORT DESCRIPTION

C.3.3 GENERAL FIELD SERVICE REPRESENTATIVE

C.4 INTERIM CONTRACTOR SUPPORT

C.4.1 INTERIM CONTRACTOR SUPPORT OBJECTIVES

C.4.2 INTERIM CONTRACTOR SUPPORT OPTIONS

C.4.3 CONTRACTING OFFICERS REPRESENTATIVE

C.4.4 TECHNICAL SUPPORT AND SERVICES

C.4.5 INTERIM CONTRACTOR SUPPORT METRICS REPORTING

C.4.6 GOVERNMENT PROVISIONS

C.4.7 CONTRACTOR PROVISIONS

C.4.8 SPARES and PARTS MANAGEMENT

C.4.9 FIELD LOGISTICS MANAGEMENT (FLM)

C.4.10 INVENTORY MANAGEMENT

C.4.11 WARRANTY MANAGEMENT

C.4.12 CONFIGURATION MANAGEMENT

C.4.13 SOFTWARE UPDATES

C.4.14 CYBERSECURITY VULNERABILITY MANAGEMENT

C.5 TOTAL PACKAGE FIELDING

C.5.1 GENERAL

C.5.2 GOVERNMENT FURNISHED ITEMS AND SERVICES

C.5.3 CONTRACTOR FURNISHED ITEMS AND RESPONSIBILITIES

C.5.4 TOTAL PACKAGE FIELDING TASKS

C.5.5 PHYSICAL SECURITY PLAN

C.5.6 SAFETY PLAN

C.1 GENERAL

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

This SOW consists of the supplies and services required for Production (including vehicles, trailers, kits, test assets and refurbishment of 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), Storage and Maintenance of hardware procured, and an option to procure a 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

Name of Offeror or Contractor:

labor, supplies, services, facilities and equipment as required under this contract.

C.1.1 SYSTEM REQUIREMENT

The Contractor shall produce the JLTV FoV in conformance with the requirements of the JLTV Purchase Description (Attachment 0001). The contract will include requirements for the Government to procure Contractor Furnished Equipment kits for integration into the vehicles. The kits are defined in the JLTV Purchase Description (Attachment 0001). Installed kits procured by the Government shall be installed into the vehicles by the Contractor prior to vehicle delivery to the Government in accordance with (IAW) the JLTV LRIP and FRP Vehicle Kit Matrix (Attachment 0084). Packaged kits procured by the Government shall be packaged and prepared for shipment by the Contractor and delivered to the Government IAW the JLTV LRIP and FRP Vehicle Kit Matrix (Attachment 0084). The Contractor shall not create or define any additional "kits" to meet the requirements of the contract. The components and systems of the kit must be contributive to the function described by the kit, no additional components may be added that are not relevant to the function of the kit.

C.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 (which includes the Heavy Guns Carrier mission package) 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)

C.1.2 PROGRAM SCHEDULE and DATA**C.1.2.1 Integrated Master Plan**

The Contractor shall manage the JLTV program IAW the Government provided Integrated Master Plan (IMP) (Attachment 0002, IMP), and the Government approved Integrated Master Schedule (IMS) (reference CDRL A003, 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 meetings, audits, assessments, and reviews in accordance with (IAW) the IMP.

C.1.2.2 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 CDRL A005, Contract Work Breakdown Schedule) and time-phasing of the Performance Measurement Baseline (reference C.1.4.3.1). The IMS shall contain logically networked, detailed program activities encompassing contract milestones, events, decision points, critical subcontract tasks or hand-offs, external dependencies, vehicle production, Government Furnished Equipment, Government Furnished Information, Interim Contractor Support (ICS) work requirements, exit criteria, discrete tasks and activities (as described in DI-MGMT-81861 within CDRL A003, IMS), and planning packages to budget for early baseline planning, from contract award through FRP approval. After FRP approval, only IPS and STS scope must be tracked and recorded in the IMS.

The IMS shall also incorporate all subcontractor discrete tasks and activities (as described in DI-MGMT-81861 within CDRL A003, IMS) 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 not identified in the former list of components above but equal or exceed 10 percent of the value of this contract shall be incorporated as tasks within the prime IMS.

The IMS shall clearly identify critical path activities and reflect risk mitigation tasks. (CDRL A003, IMS)

C.1.2.3 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 consist of 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, 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 or FOUO information. When submitting classified information, follow the NISPOM Chapter 5 instructions and DD Form 254 (reference Attachment 0003, DD254) using the below mailing address:

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

Page 9 of 111

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD 0001

Name of Offeror or Contractor:

SFAE-CSS-JL
6501 E. 11 Mile Rd, MS 640
Attn: JLTV Security Officer
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 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 Contract SOWM.

The Government will sponsor Army Knowledge Online (AKO), SharePoint, DCO, VDLS, Secret VDLS, and other required accounts for Contractor use. Details will be provided at the Contract 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 no later than (NLT) Contract SOWM, 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). In order to access these systems, the Contractor shall have or obtain External Certification Authority (ECA) Certificates, Federated Bridge Certificates, and/or DoD Common Access Cards (CAC) for appropriate personnel. For details on CACs reference C.1.2.4. Details on the ECA program and authorized ECA vendors can be found at: <http://iase.disa.mil/pki/eca/> and details on the Federated bridge program can be found at: <http://iase.disa.mil/pki-pke/interoperability/Pages/index.aspx>. Request for access to any other Government systems shall go through the PCO.

C.1.2.4 Common Access Cards Automated Contractor Verification System**C.1.2.4.1 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.

C.1.2.4.2 Requests for CAC

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

C.1.2.4.3 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 USER I.D. and Password via email.

C.1.2.4.4 CVS Access

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

C.1.2.4.5 CAC Request Status

The Government will inform the Contractors and subcontractors 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.

C.1.2.4.6 Approved and Rejected Applications

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

C.1.2.4.7 CAC Period of Performance

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

C.1.2.4.8 CAC Return

The Contractor shall return issued CACs to the DEERS office IAW FAR 52.204-9. The contractor shall notify the Government of all CACs returned to the DEERS Office.

C.1.2.5 Data Deliverables

The Contractor shall deliver to the Government all information, technical data and software required under this Scope of Work (SOW). UNLESS OTHERWISE SPECIFICALLY PROVIDED, the Contractor shall DELIVER, mark, AND GRANT RIGHTS IN all SUCH Technical data AND SOFTWARE

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 10 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

deliverables IAW DFARS 252.227-7013, 252.227-7014, 252.227-7015, and 252.227-7017.

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 (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 be prepared to brief and display information used to create each CDRL at IPT meetings, Program Management Reviews (PMR), as well as major reviews IAW the IMP.

C.1.2.6 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 B031, 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.

C.1.3 MEETINGS, AUDITS, ASSESSMENTS and REVIEWS

C.1.3.1 Participation and Administration

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 related to the preparation and execution of the meetings, audits, assessments, and reviews to include providing facility, sending invitations, media resources, security, minutes, and hard copy materials.

C.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 IAW CDRL A001, Agenda and Read-Ahead Package. If a meeting, audit, assessment, or 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, IMP).

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 11 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

C.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. (CDRL A002, Minutes)

C.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.

C.1.3.2 Start of Work Meeting

The Contractor shall conduct a Contract Start of Work Meeting (SOWM), at the Contractor's facility within 30 days after Contract Award. This meeting will introduce and align the Government and Contractor teams. The Contract 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 Contractor shall present their organizational Key Roles at the Contract SOWM and shall discuss the plan for communicating and transitioning personnel changes.

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 schedules, locations, and participants (with 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

C.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 Contract SOWM. The monthly PM Level IPT meetings will not be conducted on the months when a Program Management Review (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. For planning purposes, these meetings are anticipated to be a one (1) day event.

C.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 and 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 Verification and Validation Activities

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.

C.1.3.5 Systems Engineering Reviews

C.1.3.5.1 Systems Engineering Integrated Product Teams

The Contractor shall conduct semi-annual SE IPTs. The first meeting shall take place no later than three months after contract award. The SE IPT shall include all functional and vehicle element engineering. The Contractor shall present the following:

- a. Process and Plan status
- b. Configuration Control Board (CCB) status
- c. Manufacturing status
- d. System Technical Support (STS) status

Name of Offeror or Contractor:

- e. Software status
- f. Cybersecurity status
- g. System safety status
- h. Human Systems Integration status
- i. Technical Risk status

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 day event. The Contractor shall provide meeting minutes (Reference CDRL A002, Minutes).

C.1.3.5.2 Functional Baseline**C.1.3.5.2.1 Functional Baseline Review**

The Contractor shall host and conduct a Functional Baseline Review (FBR) at or near the Contractor site NLT 45 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 CDRL B042, PD Report) and review of the SEMP (reference CDRL B038, SEMP). The FBR shall be considered complete once all requirements have been reviewed and discrepancies in the PD Report and SEMP are resolved. For planning purposes, this meeting is anticipated to be a five (5) consecutive day event.

C.1.3.5.3 Allocated Baseline**C.1.3.5.3.1 Allocated Baseline Review**

The Contractor shall host and conduct an Allocated Baseline Review (ABR) at or near the Contractor site NLT 90 days after Contract Award. The ABR will be a review of the draft System Level Design Document (SLDD) (reference CDRL B034, SLDD) and the changes to the configuration since the EMD Phase Design Understanding Review (DUR). The Contractor shall also itemize the traceability between the JLTV Purchase Description (Attachment 0001), CSDR Plan (reference Attachment 0004, CSDR Plan), Contractor Work Breakdown Structure (CWBS) (CDRL A005 reference, CWBS), SLDD (CDRL B034 SLDD), Product Baseline Index (PBLI) (CDRL B010, PBLI). The ABR shall be considered complete once all changes to the configuration have been reviewed in sufficient detail, discrepancies in the SLDD are resolved, and the traceability of the system to contract documentation are understood. For planning purposes, this meeting is anticipated to be a two (2) consecutive day event.

C.1.3.5.4 Product Baseline**C.1.3.5.4.1 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 (Work Breakdown Schedule level 1,2, and 3) Technical Data Package (TDP) (reference, C.2.1.1.6, TDP Information Requirements), System Level Design Document (SLDD) (reference CDRL B034, SLDD), and Product Baseline Index (PBLI) (reference CDRL B010, PBLI). The SLDD and PBLI will be put under formal Configuration Management (CM), as defined in section C.2.1.1.5 after the PBR. The PBR shall be considered complete once the TDP is understood and all discrepancies in the SLDD and PBLI are resolved. After PBR, all changes to the configurations must be approved by the Government. This meeting is anticipated to be a five (5) consecutive day event.

C.1.3.5.4.2 Initial Physical Configuration Audit

The Contractor shall perform an initial Physical Configuration Audit (PCA) per the Vehicle Equipment and System Integration Lab (SIL) Allocation Matrix (VEASAM) (Attachment 0056, VEASAM). The PCA shall be witnessed by Government to validate the as-built configuration matches the PBLI (reference CDRL B010, PBLI) and TDP (reference, C.2.1.1.6 TDP Information Requirements). 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 and approved by the Government (reference CDRL B021, 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 CDRL B030, PCA Plan). Upon close out of the initial PCA, the TDP will be put under formal CM as defined in section C.2.1.1.5. For planning purposes, this audit is anticipated to be a 45 consecutive day event, not including correction of the deficiencies, at the Contractor site.

C.1.3.5.4.3 Final Physical Configuration Audit

The Contractor shall perform a final Physical Configuration Audit (PCA) per the Vehicle Equipment and System Integration Lab (SIL) Allocation Matrix (VEASAM) (Attachment 0056, VEASAM). The final PCA shall be witnessed by Government to validate the as-built configuration matches the PBLI (reference CDRL B010, PBLI) and TDP (reference, C.2.1.1.6 TDP Information Requirements). 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 by the Government are corrected by the Contractor and reviewed and approved by the Government (reference CDRL B021, 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 CDRL B030, PCA Plan). For

Name of Offeror or Contractor:

planning purposes, this audit is anticipated to be a 20 consecutive day event, not including correction of deficiencies, at the Contractor site.

C.1.3.6 Manufacturing Readiness Assessment Review

The Contractor shall conduct a Manufacturing Readiness Assessment (MRA) review at or near the Contractor manufacturing facility 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 cover all parts of the JLTV FOV provided by the Contractor and their Subcontractors. The Contractor shall evaluate its manufacturing readiness in preparation for the FRP decision with the Manufacturing Readiness Level (MRL) 9 thread criteria identified in the MRL Criteria Matrix (latest version) at the following link: <http://dodmrl.com/>. The Contractor shall evaluate each thread and sub-thread in the MRL Criteria Matrix (latest version) and shall provide sufficient and objective evidence for all criteria in each thread and sub-thread to substantiate a MRL 9 rating. If the Contractor is rated lower than a MRL 9 for any of the criteria in the MRL Criteria Matrix, 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."

C.1.3.7 Supportability and Logistics Reviews**C.1.3.7.1 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.

C.1.3.7.2 In-Process Reviews

The Contractor shall host monthly In-Process Reviews (IPRs) to discuss all Integrated Product Support (IPS) related work effort until a FRP decision is approved. 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, present records of quality assurance reviews, and respond to Government comments regarding publications processes or work samples.

C.1.3.7.3 Technical Publications Guidance Conference

The Contractor shall host a Technical Publications Guidance Conference at the conclusion of the Contract Start of Work meeting. The purpose of this meeting is to review publications contract objectives (reference C.2.3.4.2), 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 CDRL A003, IMS).

C.1.3.7.4 Provisioning Guidance Conference

The Provisioning Guidance Conference (PGC) shall be held at the conclusion of 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 C.2.3.6) 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 CDRL A003, IMS).

C.1.3.7.5 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 Logistics Support Analysis (LSA) 036 report (CDRL C004, Logistics Product Data), 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 & Logistics Product Data (LPD) database and update the provisioning records (reference C.2.3) until a FRP decision is approved.

C.1.3.8 Quality Reviews**C.1.3.8.1 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 Contract 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 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.

C.1.3.8.2 Production and Product Quality Council Meetings

The Contractor shall conduct Quarterly JLTV Quality Council meetings at the Contractor's facility. This meeting will be known as the JLTV Quality Council (QC) IPT meeting. The Contractor shall coordinate the Quality Council meeting agenda issues, topics and schedules

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 14 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

with the Government PQM-IPT members. The Contractor shall prepare and deliver minutes of the Quality Council meetings (reference CDRL A002, 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.

C.1.3.8.3 Corrective Action Review Team Meetings

The Contractor shall attend weekly Corrective Action Review Team (CART) meetings that shall commence with the start of Government testing (reference C.2.4.2). The CART is the Government group responsible for reviewing the Contractor's Failure Analysis Corrective Action Reports (FACARs) (reference CDRL D008, FACAR), including root cause analysis and proposed fixes. The CART may provide feedback to the Contractor regarding its root cause analysis methodology. The JLTV 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, Test, 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.

C.1.3.9 Test Reviews

C.1.3.9.1 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 0053 Pre-TRR Checklist). For planning purposes, this meeting is anticipated to be a two (2) day event.

C.1.3.9.2 Government Conducted Test Readiness Review

The Contractor shall attend the Government Test Readiness Review (TRR), conducted at or in the vicinity of Aberdeen Proving Ground (APG), and be prepared to present the information prepared for the Pre-TRR. 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. For planning purposes, this meeting is anticipated to be a one (1) day event.

C.1.3.9.3 Operational Test Readiness Review

The Contractor shall attend the Government Operational Test Readiness Review (OTRR), conducted at or in the vicinity of Multi-Service Operational Test and Evaluation MOT&E site and be prepared to brief and display all of the information the Contractor prepared for the Pre-TRR and TRR. The Government OTRR is anticipated to be a one (1) day event and held no less than seven days prior to MOT&E and will assess readiness to enter MOT&E.

C.1.3.9.4 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 (CDRL D009, RAM Scoring Conference Package).

C.1.3.9.5 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 CDRL D010, 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 (CDRL D010, RAM Assessment Conference Package).

C.1.3.10 Business Management Reviews

C.1.3.10.1 Cost and Software Data Reporting and Other Cost Reports Readiness Reviews

C.1.3.10.1.1 Cost and Software Data Reporting Readiness Review

The Contractor shall host a Cost and Software Data Reporting (CSDR) readiness review with Government within 14 days of the Contract SOWM (reference C.1.3.2) at the Contractor facility where CSDRs are prepared. The purpose of this meeting is to prepare for the Post Award CSDR Conference (reference C.1.3.10.2). Per DFARS 252.234-7004(a), the Contractor shall use a documented CSDR process that satisfies the DoD 5000.04-M-1; management procedures that timely report; and a Government CSDR approved plan (reference Attachment 0004, CSDR Plan) and related Resource Distribution Table (reference CDRL A013, 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.

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 15 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

The Contractor shall present initial drafts of the CSDR CDRLs (reference CDRL A005, CWBS; CDRL A006, 1921; CDRL A007, 1921-1; CDRL A008, 1921-2; CDRL A009, 1921-3; CDRL A011 CDRL, SRDR Initial; CDRL A012 SRDR Final and CDRL A013, RDT) based on the entire contract value, including options. This meeting is expected to take two business days.

C.1.3.10.1.2 Contractor Manufacturing Cost Estimate Review

The Contractor shall host a meeting with the Government to walkthrough the Contractor's Multi-Year Procurement cost estimate, methodologies and source data, immediately following the completion of the CSDR Readiness Review (reference CDRL A023, Multi-Year Procurement Estimate). 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.

C.1.3.10.1.3 Other Cost Reports Readiness Review

The Contractor shall hold an Other Cost Reports Readiness Review with the Government upon completion of the Contractor Manufacturing Cost Estimate Review (reference C.1.3.10.1.2). This meeting will review the purpose and content of each of the Other Cost Reports and resolve any reporting issues (reference C.1.4.2). 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.

C.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 C.1.3.10.1.1). 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) and related Resource Distribution Table (reference CDRL A013, 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, CSDR Plan). Within seven days of completing the CSDR Readiness Review, the Government 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).

C.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 Attachment 0004) and CWBS element (reference CDRL A005). 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 Contractors 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 the Government prior to follow-on CSDR submission via the phone or email.

C.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 CSDR Plan). The intent of these reviews is to give Government 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 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.

C.1.4 BUSINESS MANAGEMENT

C.1.4.1 CSDR

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

CDRL#	Title
A005	Contract Work Breakdown Structure (CWBS)
A006	Cost Data Summary Report (CDSR) (DD Form 1921)
A007	Functional Cost-Hour Report (DD Form 1921-1)
A008	Progress Curve Report (DD Form 1921-2)
A009	Contractor Business Data Report (DD Form 1921-3)
A011	Software Resources Data Report (SRDR) Initial
A012	Software Resources Data Report (SRDR) Final
A013	Resource Distribution Table (RDT)

The Contractor shall reconcile reporting elements in the CSDR with the IMS (reference CDRL A003, IMS), any applicable Funds and Man-hour

Name of Offeror or Contractor:

Expenditure Report (reference CDRL A004, Funds and Man-hour Expenditure Report), any applicable Other Cost CDRLs (reference CDRL A016, Service & Consumption Report; CDRL A018, Inventory Receipt Report; CDRL A019, Parts Repair Report; CDRL A017, Current Inventory Report; CDRL A015, ASL; CDRL A014, BOM; CDRL A020, Project Expenditure Report; CDRL A022 CFSR; CDRL A025, Production Indentured Bill of Materials) when these documents are submitted with the same "as of" date and the Product Baseline Index (reference B010 CDRL, 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. 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.

C.1.4.1.1 Flow-Down Requirements

C.1.4.1.1.1 CSDR Flow-Down Requirements

The Contractor shall flow-down CSDR requirements to all subcontracts in accordance with DFARS 252.234-7004(b). 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). For Subcontractors not meeting CSDR reporting thresholds, the Contractor shall collect and provide Subcontractor data to comply with the Resource Distribution Table requirements (reference CDRL A013, RDT) and the CSDR Plan (reference Attachment 0004).

C.1.4.1.1.2 SRDR Flow-Down Requirements

The Contractor shall flow-down SRDR requirements (reference CDRL A011, SRDR-Initial; CDRL A012 SRDR-Final) 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).

C.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). 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). 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 Governments Cost Working Group Integrated Product Team (CWIPT). The CWBS Dictionary shall reflect the design as documented in the System Level Design Document (reference C.2.1.1.3) and Product Baseline Index (reference C.2.1.1.4). Any changes to an approved CWBS require Government approval. (CDRL A005, CWBS Index and Dictionary)

C.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). (CDRL A006, 1921)

C.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). (CDRL A007, 1921-1)

C.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). (CDRL A008, 1921-2)

C.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). (CDRL A009, 1921-3)

C.1.4.1.7 RESERVED

C.1.4.1.8 Software Resources Data Report (SRDR) - Initial

The Contractor shall prepare and submit the Software Resource Data Report (SRDR) which provides expectations and actual results of software development and upgrade efforts as specified in the approved CSDR plan (reference Attachment 0004, CSDR Plan). (CDRL A011, SRDR-Initial)

C.1.4.1.9 Software Resources Data Report (SRDR) - Final

The Contractor shall prepare and submit the Software Resource Data Report (SRDR) which provides results of software development and upgrade efforts as specified in the approved CSDR plan (reference Attachment 0004, CSDR Plan). (A012 CDRL, SRDR Final)

C.1.4.1.10 Resource Distribution Table

The Contractor shall prepare and submit a Resource Distribution Table (RDT) which identifies the value of work assigned to the

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 17 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

Contractor and any subsidiaries and Subcontractors. The RDT shall be based on the WBS used in the CSDR Plan (reference Attachment 0004). (CDRL A013, RDT)

C.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.

CDRL#	Title
A014	Current and Prior Configuration Indentured Bill of Materials
A015	Authorized Stockage List (ASL) Procurement
A016	Service & Consumption Report
A017	Current Inventory Report
A018	Inventory Receipt Report
A019	Parts Repair Report
A004	Funds and Man-hour Expenditure Report
A022	Contract Funds Status Report
A020	Project Expenditure Report
A023	Multi-Year Procurement Estimate
A025	Production Indentured Bill of Materials

The Contractor shall reconcile reporting elements in any applicable CSDRs (reference CDRL A005, CWBS; CDRL A0006, 1921; CDRL A007, 1921-1; CDRL A008, 1921-2; CDRL A009, 1921-3; CDRL A011, SRDR Initial; CDRL A012, SRDR Final; CDRL A013, RDT) when these documents are submitted with the same as of date and the Product Baseline Index (reference CDRL B010, 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.

C.1.4.2.1 Current and Prior Configuration Indentured Bill of Materials

The Contractor shall prepare and maintain an indentured Bill of Materials (BOM) of any and all parts that are or were ever included in the JLTv FoV configuration to include all ECPs, VECPS, and other configuration 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, the configuration prior to ECPs cut-in) of the JLTv FoV. The indentured BOM information shall correspond to the PBLI structure (reference C.2.1.1.4, PBLI). (CDRL A014, Current and Prior Configuration Indentured Bill of Materials)

C.1.4.2.2 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). (CDRL A015, ASL)

C.1.4.2.3 Service & 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. (CDRL A016, Service & Consumption Report)

C.1.4.2.4 Current Inventory Report

The Contractor shall maintain a database containing an inventory of all parts, fluids, leased items, and other tangible assets held in an inventory to support any scope against this contract. The Contractor shall prepare and submit a report to the Government containing information on the current inventory. (CDRL A017, Current Inventory Report)

C.1.4.2.5 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 an inventory during the execution of any scope against this contract. (CDRL A018, Inventory Receipt Report)

C.1.4.2.6 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. (CDRL A019, Parts Repair Report)

C.1.4.2.7 Project Expenditure Report

The Contractor shall track and report costs and hours associated with the development, procurement, and retrofit of any ECPs, STS, Independent Research and Development Costs, and other modifications to the JLTv FoV configurations. (CDRL A020, Project Expenditure Report)

C.1.4.2.8 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, Funds and Man-hour Exp Report Template). The Contractor shall reconcile reporting elements in the Funds and Man-hour

Name of Offeror or Contractor:

Expenditure Report with the IMS and the CSDR when these documents are submitted with the same as of date. (CDRL A004, Funds and Man-hour Expenditure Report)

C.1.4.2.9 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 (CDRL A022, CFSR).

C.1.4.2.10 Multi-Year Procurement Estimate

The Contractor shall prepare a Multi-Year Production Procurement estimate and provide it to the Government during the Contract SOWM (reference C.1.3.2). (CDRL A023, Multi-Year Procurement Estimate)

If Multiyear approval is pursued, the contractor shall provide a multiyear proposal for fixed-price hardware 45 days after the PCO makes a request. After negotiation of a fair and reasonable price, and multiyear approval is obtained, the Government will utilize this proposal to convert to a multiyear contract.

C.1.4.2.11 Production Indentured Bill of Materials

The Contractor shall prepare a Bill of Materials (BOM) for each production lot of JLTV FoV in an indentured level consistent with how parts used in the production of JLTV FoV were procured and incorporated into the final production end item. (A025 CDRL, Production Indentured Bill Of Materials)

C.1.4.3 Earned Value Management System (EVMS)

In the performance of an individual or combination of related STS Work Directive(s) issued by the Government valued at \$20 million or greater, the Contractor shall use an EVMS that complies with DFARS 252.234-7002 and DFARS 252.242-7005 and shall meet the Contractor's own documented System Description.

C.1.4.3.1 Performance Measurement Baseline (PMB)

The Contractor shall generate a time-phased budget baseline assigning all costs for the applicable STS work directive(s) to their specific Work Breakdown Structure (WBS) elements no later than 45 days after the work directive is issued. The PMB shall be the basis for the Integrated Program Management Report (reference CDRL A021, IPMR Formats). Retroactive changes to the PMB are prohibited, except for the correction of errors and routine accounting adjustments.

C.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 IAW DFARS 252.234-7002(f). 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 CDRL A001, Agenda - Read Ahead Package). The Contractor shall lead the IBR with its Subcontractors (reference C.1.4.3.4), with active participation from the Government.

C.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 CDRL A005) shall be required for scope identified as high risk in the contractors Risk Management Plan (reference C.2.1.5.2) and high variance items as identified in CDRL A021 and will be required until the problem is resolved. 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. (CDRL A021, IPMR)

C.1.4.3.4 Application to Subcontractors

The Contractor shall flow down DFARS Clause 252.234-7002. The performance information reported by the Subcontractors shall be incorporated and integrated into the Contractor's management system.

C.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 (NISPO) DoD, 5220.22-M), and Army Regulation (AR) 70-77.

C.1.5.1 Program Protection Working Group and Critical Program Information Assessment

For the life of the contract, the Contractor shall host a Program Protection Working Group (PPWG) not less than annually. The first PPWG shall be held as part of the Contract SOWM. Each PPWG will be chaired by the Government Systems Engineer and co-chaired by the Contractor's System Security Engineer. The co-chair shall develop the agenda and action items (reference CDRL A001, Read Ahead Agenda and CDRL A002, Minutes). The agenda will include a Critical Program Information Assessment (CPIA) that will identify Critical Program Information (CPI) or Critical Technology (CT) (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.

C.1.5.2 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

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 19 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

components as well as the hardware and software suppliers for the logic bearing components.

The Contractor shall host a one day review NLT 60 days after contract award with the Government 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 (CDRL 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). (CDRL B053, Critical Analysis)

C.1.5.3 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.

C.1.5.3.1 Anti-Tamper Plan

If the PPWG identifies CPI or CT, The Contractor shall develop, utilize, and maintain an Anti-Tamper Plan to address protection of CT from foreign intelligence, technology exploitation, supply chain, battlefield threats and system vulnerabilities. (CDRL B006, Anti-Tampering Plan)

C.1.5.3.2 Anti-Tampering Implementation

If Anti-Tamper Plan is required (reference C.1.5.3.1), The Contractor shall integrate the AT protections described in the AT Plan to protect CPI and Critical Technologies identified within the JLTV FoV.

C.1.5.3.3 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, 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 mitigations are briefed and displayed at each Program Management Review (PMR) (reference CDRL A001, Agenda and Read-Ahead Package, and CDRL A002, Minutes)

C.1.5.3.4 Post-Award Subcontract Content

The Contractor shall deliver, IAW the Supplier RFI form (Attachment 0028, 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). 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 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. (CDRL B052, Critical component Subcontractor and Supplier list)

C.1.6 Information Security

C.1.6.1 Cybersecurity Program Plan

The Contractor shall provide a Cybersecurity Program Plan. (CDRL A024, Cybersecurity Program Plan).

C.1.6.2 Data Protection

The Contractor shall protect JLTV program data that resides on the Contractors network IAW DoDI 8582.01.

C.1.6.2.1 Data at Rest (DAR)

The Contractor shall encrypt all unclassified JLTV FoV data (including CUI and FOUO) stored electronically using FIPS 140-2 validated encryption, IAW DoDI 8582.01, Security of Unclassified DoD Information on Non-DoD Information Systems.

C.1.6.2.2 Media Disposal

The Contractor shall purge any media used to store unclassified JLTV FoV data (including CUI and FOUO) IAW NIST SP 800-88 before external release or disposal, IAW DoDI 8582.01, Security of Unclassified DoD Information on Non-DoD Information Systems.

C.1.6.2.3 Data Loss Prevention

All JLTV FoV CUI and FOUO information stored electronically will shall be protected by a data loss prevention (DLP) system that is

Name of Offeror or Contractor:

configured to monitor, audit and only allow specifically authorized transfer of JLTV FoV data, IAW Secretary of Defense Memo "Safeguarding Unclassified Controlled Technical Information", dated 10 October 2013.

C.1.6.2.4 Wireless Computing and Networking

The Contractor shall ensure Contractor's wireless computing and capabilities used, when dealing with JLTV FoV data, must meet or exceed the requirements listed IAW DISA Wireless Security Technical Implementation Guide, Army Information Assurance Best Business Practices 09-EC-M-0010, Wireless Security Standards 4.0 (sections 4b-m and 5), IAW DoDI 8582.01, Security of Unclassified DoD Information on Non-DoD Information Systems.

C.1.7 GOVERNMENT FURNISHED EQUIPMENT (GFE) AND GOVERNMENT FURNISHED INFORMATION (GFI)**C.1.7.1 GFE and GFI Delivery**

The Government will provide the GFE and GFI IAW the schedule outlined in the GFE/GFI List (Attachment 0027, GFE/GFI List). At the Contract 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 and GFI.

C.1.7.2 Government Furnished Equipment Tracking

Contractor shall track and report Government Furnished Equipment, utilizing Attachment 0079 JLTV Government Furnished Equipment Tracking, in accordance with FAR 52.245-1 and DAFRS 252.211-7007.

C.1.7.3 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 (GFI) and integrate GFE. At the Contract 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 systems into the JLTV FoV as identified in the JLTV Purchase Description (Attachment 0001). Progress of NDAs and MOAs shall be discussed at the PMRs.

C.2 PRODUCTION

All paragraphs in C.2 apply only to LRIP, unless otherwise specified.

C.2.1 SYSTEMS ENGINEERING**C.2.1.1 Baseline Configuration Control****C.2.1.1.1 Purchase Description Report**

The Contractor shall provide a report to the Government to include the estimated Cost, Schedule, and Performance information to achieve the Request for Proposal (RFP) Purchase Description (PD) requirements summarizing only what the Contractor proposed as non-compliance areas and are not within the contractually binding JLTV Purchase Description (Attachment 0001). (CDRL B042, PD Report)

C.2.1.1.2 System Engineering Management Plan

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

C.2.1.1.3 System Level Design Document

For the life of the contract The Contractor shall establish manage, maintain, and submit 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) and the Product Baseline Index (PBLI) (reference A008, CWBS), (reference CDRL B010 PBLI), (CDRL B034, SLDD)

C.2.1.1.4 Product Baseline Index

For the life of the contract The Contractor shall establish, manage, maintain and submit a Product Baseline Index (PBLI). The PBLI shall consist of the lowest level that captures the Line Replaceable Units (LRUs and individual software elements. The baseline PBLI will be discussed and established at the PBR. (CDRL B010, PBLI)

C.2.1.1.5 Configuration Management

The Contractor shall execute Configuration Management (CM) for the life of the contract to the JLTV FOV (reference C.2.1.1.5.3). The Government shall be the approver of all changes to the configuration baselines and corresponding TDP through ECPs (reference B023 CDRL ECP). 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 Management Guidance.

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 21 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

C.2.1.1.5.1 Configuration Baseline

The JLTV Configuration Baselines are defined by the 1) JLTV PD (Functional Baseline); 2) SLDD (Allocated Baseline); and 3) PBLI and corresponding TDP (Product Baseline).

C.2.1.1.5.2 Configuration Control Board

For the life of the contract, The Contractor shall conduct a 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 CDRL A002, Minutes)

C.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 for the life of the contract to all process and activities contained within the approved CMP. (CDRL B011, CMP)

C.2.1.1.5.4 Configuration Management Web-based System

The Contractor shall establish a CM web-based system and maintain for the life of the contract, access to the As-Built Configuration List (ABCL) (reference Attachment 0031, ABCL), TDP (reference C.2.1.1.6.1, TDP Package) with metadata. The Contractor shall provide the Government with at least read-only online access of the TDP. The current TDP data shall be accessible to the Government via a light weight model viewer (such as ProductView). The Government will have the ability to download data from the CM Web-Based system. Each Download is considered a data deliverable in the context of DFARS Data Rights clauses including 252.227-7013, 252.227-7014, and 252.227-7015.

The CM 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 systems shall also maintain the records of approved and rejected ECPs and RFDs throughout the contract.

The CM Web-based System shall provide the access to the past versions of the System Level Design Documents (SLDD) (reference CDRL B034 SLDD) PBLI (reference CDRL B010, PBLI), and Interface Control Documents (reference CDRL B032), Vehicle Specification Sheets (reference CDRL B044, Vehicle Specification Sheet), and Configuration Status Accounting Information (CSAI) (reference CDRL B022, CSAI).

The Contractor shall provide the Government with contribute access to the CM workflow process in the Contractor's CM web-based system. The contribute access shall include approve, reject, and comments of the CM data resident on the system. 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 no later than the Product Baseline Review.

C.2.1.1.5.5 Configuration Status Accounting Information

The Contractor shall record, maintain and submit the Configuration Status Accounting Information (CSAI) for the life of the contract. The CSAI shall include status of changes, status of resulting action items, effectivity, and incorporation status of approved changes (reference CDRL B023 ECP, and CDRL B025, 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. (CDRL B022, CSAI)

C.2.1.1.5.5.1 Effectivity Certification

For the life of the contract, 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 CDRL B022, CSAI)

C.2.1.1.5.6 Physical Configuration Audit (PCA) Plan

The Contractor shall submit a PCA Plan prior to the initial and final PCA. Once the plan is approved by the Government, the Contractor shall adhere for the life of the contract, to all process and activities contained within the approved PCA Plan. Hardware presented at the PCA shall be built to the current baseline at the time of the PCA. (CDRL B030, PCA Plan)

C.2.1.1.5.6.1 Configuration Audit Summary Report

For the life of the contract, 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. (CDRL B021, Configuration Audit Summary Report)

C.2.1.1.5.7 Engineering Change Proposal

After the completion of the PBR for the life of the contract, the Contractor shall prepare ECPs and VECs IAW Attachment 0020, 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. Government approval of the ECP does not constitute relief from vehicle performance requirements. (CDRL B023, ECP)

Name of Offeror or Contractor:

All changes proposed by the Contractor shall be at the Contractors cost. All changes generated by the Government will be funded by the Government unless an exception in section H.7 applies. Government approval of the ECP does not constitute relief from vehicle performance requirements. (CDRL B023, ECP)

ECPs initiated by the Contractor to meet Purchase Description requirements (Attachment 0001), or to correct failures, or deficiencies (reference E.5) shall be retrofitted by the contractor to all vehicles produced.

C.2.1.1.5.7.1 Value Engineering Change Proposal

For the life of the contract, When the Contractor is interested in proposing a Value Engineering Change Proposal (VECP), the Contractor shall submit a VECP Request to the PCO and the CCB. The VECP shall be prepared and executed IAW Attachment 0020 ECP with the additional information required in 52.248-1(c). In accordance with 52.248-1(f), 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. (CDRL B024, Value Engineering Change Proposal).

C.2.1.1.5.8 Request for Deviation

For the life of the contract, Contractor may request to temporarily deviate from the Product Baseline or the JLTV Purchase Description (Attachment 0001) by submitting a Request for Deviation (RFD) IAW (Attachment 0021, Request For Deviation). All permanent changes shall require an Engineering Change Proposal to the JLTV PD (Attachment 0001). The Government is the approval authority for all RFDs. (CDRL B025, RFD)

C.2.1.1.6 Technical Data Package Information Requirements

For the life of the contract, the Contractor shall develop and maintain a complete production level TDP for the JLTV FOV. The TDP shall be the basis of managing the configuration of the JLTV FoV. The Government shall have the right to download the TDP through the CM Web Based System (reference C.2.1.1.5.4), regardless of the level of rights that the government will receive in that TDP.

C.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 for the life of the contract, 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.

C.2.1.1.6.1.1 Software

For the life of the contract, 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.

C.2.1.1.6.1.2 Paint Colors within the TDP

For the life of the contract, 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 and finish drawing in the TDP in order to allow the Government to order different exterior colored vehicle lots without impacting component drawings and part numbers.

C.2.1.1.6.2 Government Data Rights

In addition to the applicable DFAR clauses, ASME Y14.24 Appendix A shall be used for the life of the contract for determining the proper model and drawing types for all components.

C.2.1.1.6.3 Utilization of the TDP

For the life of the contract, 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 (reference C.2.1.1.5.7 Engineering Change Proposal).

C.2.1.1.6.4 Technical Data Package, 3D Solid Models, and 2D Drawings

For the life of the contract, the 3-D model, including metadata, is the master design record. All subsequent data rendering, drawings, and depictions are derived from the 3-D record.

C.2.1.1.6.5 Solid Models

For the life of the contract, 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

Name of Offeror or Contractor:

product structure that aligns with the WBS (reference Attachment 004), CWBS (reference CDRL A008), and the allocated baseline described in the SLDD (reference CDRL B034).

C.2.1.1.6.6 Engineering Drawings, Product Drawings, and Records

For the life of the contract, the Contractor shall maintain Product Design Drawings electronic files formatted IAW MIL-STD-31000, 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 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. The Quality Assurance Provisions shall note product controls, required tests for performance, and validation requirements.

C.2.1.1.6.7 Dressed Components

For the life of the contract, the TDP shall include dressed component drawings if the component is a properly manufactured, assembled and tested set of parts, subsystems and assemblies that are complete for installation in the vehicle. Examples of dressed components are an engine, transmission, axle, transfer case, cooling pack, or cab. 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.

C.2.1.1.6.8 Drawing Part Numbers

For the life of the contract, all product drawings and models including Packaging Content and Kit drawings produced under this contract shall be assigned Government issued part numbers located on the drawing and models. These part numbers can be obtained by submitting a written request to the Government 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.

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. (CDRL B035, Part Number Report)

C.2.1.1.6.9 Assembly Breakdown

For the life of the contract, 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 specifications, and software.

C.2.1.1.6.10 Documentation Maintenance

For the life of the contract, the Contractor shall prepare and maintain 3-D models, drawings, specifications and other technical data comprising the product baseline for the JLTV FoV.

C.2.1.1.6.11 Production Technical Computer Aided Design (CAD) Data

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

C.2.1.1.6.12 Interface Control Documents and Models

For the life of the contract, the Contractor shall develop all JLTV FoV and Contractor Furnished Equipment (CFE) kit 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 shall 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 shall be assigned a Part File number to be configuration managed. JLTV FoV ICDs will capture all changes as Engineering Change Proposals (ECPs). ICDs shall be validated in the final Physical Configuration Audit. (CDRL B032 CDRL, Interface Control Documents)

C.2.1.1.6.13 Software and Firmware

For the life of the contract, 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.

C.2.1.1.6.14 Source Code

For the life of the contract, the Contractor shall deliver a copy of all source code (including firmware) utilized on the JLTV FoV and developed by the Contractor or any Subcontractors, including C4ISR, Vetrionics, and GFE at-platform devices. (CDRL B050, Source Code)

C.2.1.1.6.15 Software Images and Executables

For the life of the contract, 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 (CSIL or GSIL) or on a vehicle. This software

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 24 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

and data shall include software virtual machine (VM) and system images, executables, firmware, parameter files, and configuration and calibration data utilized on the JLTV FoV, including C4ISR, Vetronics, and GFE at-platform devices. (CDRL B037, Software Images and Executables)

C.2.1.1.6.16 TDP Summary Data

C.2.1.1.6.16.1 Health Management System Report

For the life of the contract, the Contractor shall provide a Health Management System (HMS) Report. (CDRL B049, HMS)

C.2.1.1.6.16.2 Vehicle Network Configuration Package

For the life of the contract, the Contractor shall provide a Vehicle Network Configuration package. (CDRL B047, Vehicle Network Configuration Package)

C.2.1.1.6.16.3 Software Version Description (SVD)

For the life of the contract, the Contractor shall develop and deliver a SVD document to describe each software version release. (CDRL B051, Software Version Description)

C.2.1.1.6.16.4 Electrical Architecture Metrics

For the life of the contract, 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 measure 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 measure 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). (CDRL B043, Growth Margin Analysis)

C.2.1.1.6.16.5 Routing Diagrams - Cabling, Wiring Harnesses, and Plumbing

For the life of the contract, 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. If the Contractor utilized any Government provided GFE cables or harnesses from the GFE kits (either the original form or modified by the Contractor), the Contractor shall identify each GFE part number by NSN and supplier part number. (CDRL B005, Routing Diagrams-Cabling, Wiring Harnesses and Plumbing)

C.2.1.1.6.16.6 Key Subsystems and Design Margins

For the life of the contract, the Government has identified key subsystems (Attachment 0010, 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.14.1, and Process Failure Mode Effects and Analysis (PFMEAs) defined in Section E.14.2 and brief and display findings as part of the monthly PQM IPT meetings (reference Section C.1.3.8.1).

C.2.1.1.6.16.7 Growth Margin Analysis

For the life of the 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).

As part of the Growth Margin Analysis, the Contractor shall conduct an analysis to determine how future systems are to be integrated into the JLTV FoV, using the potential future requirements in Future Systems Growth (Attachment 0011 Future Requirements) and items identified as Evaluation in GFE/GFI List (Attachment 0027). The analysis shall include plans for space, weight, power, system and network interconnects, mounting provisions, computing resources, and thermal loads. The Contractor shall provide a fully detailed report documenting these available growth margins. (CDRL B043, Growth Margin Analysis).

C.2.1.2 SE Program Support

C.2.1.2.1 Environmental, Safety and Occupational Health (ESOH)

For the life of the contract the Contractor shall perform Environmental, Safety, and Occupational Health (ESOH) activities under this Section.

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 25 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

C.2.1.2.1.1 ESOH Management Plan

For the life of the contract, 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. Once the plan is approved by the Government, the Contractor shall adhere to all process and activities contained within the approved ESOH Management Plan. (CDRL B018, ESOH Management Plan)

C.2.1.2.1.2 ESOH Working Group

For the life of the contract, 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.

C.2.1.2.1.3 Hazard Tracking Log

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

C.2.1.2.1.4 Hazardous Materials Management

For the purposes of this contract and for the life of the contract, hazardous materials are defined in FED-STD-313. 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.

C.2.1.2.1.4.1 Exceptions to Hazardous Materials Requirements

Request for Deviation (RFD) from the hazardous materials requirements shall not be permissible except where a suitable alternative does not exist. The Contractor shall submit RFDs to the COR no later than the Contract SOWM using the, Request for Use of Prohibited Materials (Attachment 0019, Exceptions to Hazardous Materials Requirements). RFDs shall include detailed technical justification for the use of prohibited hazardous materials. Government response will be provided to the Contractor within 45 calendar days of receiving sufficient justification for the RFD. For the life of the contract the Contractor shall not deliver any items containing prohibited materials without the Government approval of the RFD. Permanent exceptions will require an ECP to change the JLTV PD Requirements.

C.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 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 Sustainment) that each material is required for or created in.

For the life of the contract, 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. (CDRL B015, HMMR)

C.2.1.2.1.4.3 Disposal of Hazardous Manterials

For the life of the contract, 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.

C.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. (CDRL B013, Safety Assessment Report)

C.2.1.2.1.6 Safety Review

The Contractor shall provide SMEs to attend two Joint Services Weapons Safety Reviews (JSWSR) in the Washington DC area. The Government estimates the Contractor to provide two (2) SMEs for each review and each review is expected to be a one (1) day event. 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 if used in the system design.

C.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.

C.2.1.2.1.8 Engine Emissions Analysis Report

Name of Offeror or Contractor:

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. (CDRL B004, Engine Emissions Analysis Report).

C.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.

C.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. (CDRL B014, Lithium Battery Safety Data Package)

C.2.1.2.2 Human System Integration and MANPRINT Working Group

For the life of the contract the Contractor shall conduct Human System Integration (HSI) and 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 attend and provide input at monthly Joint HSI and MANPRINT Working Group (JMWG) VTCs, and quarterly face to face 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 and discuss changes to the HSI Issue Log changes, HSI and MANPRINT program status and updates, design data, planned HSI and MANPRINT events, and event findings. (reference B026 CDRL, HSI Issues Log)

C.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 report shall include diagrams, illustrations, and drawings with measurements as applicable to support the analysis. (CDRL B016, HESAR)

C.2.1.2.2.2 Human Systems Integration (HSI) Issues Log

For the life of the contract, the Contractor shall develop and maintain an HSI Issues Log in Contractor format for HSI and MANPRINT issues. The HSI Issues Log shall be discussed at the Joint HSI and 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 and 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 and MANPRINT lead, in writing. (CDRL B026, HSI Issues Log)

C.2.1.2.3 Corrosion Prevention and Control Plan and Finish Specification Report

For the life of the contract the Contractor shall develop, deliver, and implement a Corrosion Prevention and Control Plan (CPCP). Once the plan is approved by the Government, the Contractor shall adhere to all process and activities contained within the approved CPCP. The Contractor shall provide a Finish Specification Report with the CPCP. (CDRL B001, CPCP and Finish Specification Report)

C.2.1.2.3.1 Joint Interfaces, Materials, and Coatings

For the life of the contract, 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. (CDRL B002, Joint Interfaces, Materials, and Coatings)

C.2.1.2.3.2 Contractor Corrosion Team

For the life of the contract, the Contractor shall establish a Contractor Corrosion Team (CCT) that will interact with the Government 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 (CDRL B003, Contractor Corrosion Team Log).

C.2.1.2.4 Software**C.2.1.2.4.1 Software Certification and Licenses**

For the life of the contract, 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 JLTV 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.

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 27 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

C.2.1.2.4.2 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 for the life of the contract upon Government request.

C.2.1.2.4.3 Software Development Plan (SDP)

For the life of the contract the Contractor shall provide a SDP. The Contractor shall use its own corporate software standards and shall tailor the SDP to JLTV FoV software development. All JLTV FoV software shall be developed IAW the Contractor developed SDP. (CDRL B020, Software Development Plan)

C.2.1.2.4.4 Software Test Plan (STP)

The Contractor shall provide a STP. For the life of the contract, all software on the JLTV FoV shall be tested IAW the Contractor developed STP. (CDRL B027, Software Test Plan)

C.2.1.2.5 Cybersecurity on JLTV FoV, CSILS, GSILS, and Kits

C.2.1.2.5.1 Cybersecurity Accreditation Artifact Package

For the life of the contract, the Contractor shall provide a Cybersecurity Accreditation Artifact Package (CDRL B008, Cybersecurity Artifact Package).

C.2.1.2.5.2 Cybersecurity and Software Scans

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

C.2.1.2.5.2.1 Baseline Cybersecurity and Software Scan

For the life of the contract, The Contractor shall provide the Government access to the CSIL for the Baseline Cybersecurity scan. The Baseline Scans shall be held NLT 150 days after Contract Award.

C.2.1.2.5.2.2 Follow-on Cybersecurity Scans

For the life of the contract, the Contractor shall provide the Government access to the CSIL for additional testing identified at the Baseline Cybersecurity and Software Code Scans. The follow-on-scans will only be conducted if the baseline scan requires action on the Contractor's part to resolve deficiencies.

C.2.1.2.5.2.3 Recurring Cybersecurity and Software Scans

For the life of the contract, the Contractor shall provide the Government access to the CSIL and software source code repositories for all JLTV software and systems for recurring scans. The scans shall be conducted not less than annually and following significant changes to the JLTV software or architecture.

C.2.1.2.5.3 TEMPEST Review

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

The Government estimates the Contractor to provide two (2) SMEs for ten (10) business days for the TEMPEST Baseline review and no more than five (5) business days for Follow-On reviews. TEMPEST reviews shall occur at the Contractors facility.

C.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 individual certificates), PKI authentication infrastructure and interoperation 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. (CDRL B019, Tactical Public Key Infrastructure Implementation Analysis TPKI Report)

C.2.1.2.5.5 Cybersecurity Workforce

For the life of the contract, 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.

C.2.1.2.5.6 Cybersecurity Testing

The Contractor Cybersecurity personnel shall attend execution of and recovery from Cybersecurity readiness (Blue and Red Team) testing.

Name of Offeror or Contractor:

Cybersecurity readiness testing will be conducted during the developmental and operational test and evaluation event. The Government estimates the Contractor to provide two (2) SMEs for two (2) weeks.

C.2.1.2.5.7 Cybersecurity Log Management Plan

For the life of the contract, the Contractor shall conduct an analysis to determine how logistics 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. Once the plan is approved by the Government, the Contractor shall adhere to all process and activities contained within the approved Cybersecurity Log Management Plan. (CDRL B028, Cybersecurity Log Management)

C.2.1.2.5.8 Cybersecurity Vulnerability Management Software Maintenance Plan

For the life of the contract, 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 CSIL, GSIL, CM and test fleet, and to delivered operational fleet. Implementation plan must address both cyclic and out-of-cycle updates based on severity. Once the plan is approved by the Government, the Contractor shall adhere to all process and activities contained within the approved Cybersecurity Vulnerability Management Software Maintenance Plan. (CDRL B029, Cybersecurity Vulnerability Management Plan)

C.2.1.2.5.8.1 Cybersecurity Vulnerability Management - Notification Monitoring

For the life of the contract, 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/>.

C.2.1.2.5.8.2 Cybersecurity Vulnerability Management - Database

For the life of the contract, 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.

C.2.1.2.5.8.3 Cybersecurity Vulnerability Management - Software Code Scan

For the life of the contract, the Contractor shall correct deficiencies identified in all software (including open source software) evaluated in the software code scans.

C.2.1.2.5.9 Annual Security Review

For the life of the contract, the Contractor shall provide C4ISR and Cybersecurity SMEs; vehicle access; documentation for all vehicle and equipment (CFE & GFE) configurations for joint Government and Contractor annual security reviews. The reviews shall occur annually from the date of baseline cybesrsecurity and software scan (reference C.2.1.2.5.2.1) and previous annual security review. The Government estimates the Contractor to provide two (2) SMEs for one week per event.

C.2.1.3 As-Built Configuration List

For the life of the contract, the Contractor shall maintain an As-Built Configuration List (ABCL) for each vehicle built IAW (Attachment 0031, 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.

C.2.1.4 External Integration**C.2.1.4.1 Vehicle Specification Sheet**

For the life of the contract, the Contractor shall maintain and update vehicle specification sheets for each JLTV FoV Configuration, IAW Vehicle Specification Sheet (Attachment 0026, Vehicle Specification Sheet). These sheets shall be updated when configuration changes are made that affect the data reported. (CDRL B044, Vehicle Specification Sheet)

C.2.1.4.2 Vulnerability Analysis Input Data

For the life of the contract, the Contractor shall submit fully completed Vulnerability Analysis input data for each JLTV FoV configuration (Attachment 0013, Vulnerability Analysis Input Data Sheets) (CDRL B039, Vulnerability Analysis Input Data).

C.2.1.4.2.1 Armor Recipes

For the life of the contract, for each Base Vehicle Platform, the Contractor shall provide descriptions of the unique armor recipes, at both the A-structure and B-kit protection levels, for each vehicle surface (sides, top, front, rear, underbody), to include the applique armor for EFP protection. For each armor recipe, the Contractor shall specify the material and thickness of each armor layer (including air spaces), from outside to inside, plus the areal density of the overall recipe. In the recipe descriptions, any new recipe which was not provided during the EMD phase will be clearly identified as such. Based on a review of the armor recipes, the Government will decide how many coupons need to be tested for each armor recipe. The number of coupons which will be tested for some recipes may be less than the quantities delivered. (CDRL B039 Vulnerability Analysis Input Data)

Name of Offeror or Contractor:**C.2.1.4.2.2 Armor and Vehicle Schematics**

For the life of the contract, for each Base Vehicle Platform, the Contractor shall provide schematics of each vehicle aspect view (overhead, sides, front, rear, underbody) which identify locations of each unique armor recipe and show the obliquity angles of all surfaces. In addition to vertical obliquities (layback angles) of all surfaces, horizontal obliquity angles (angles which would be seen if looking directly top-down or bottom-up) shall be included. The schematics shall include illustrations of the armor seams and attachment points on each surface of the vehicle. The schematics shall also depict the Contractor designed operational ride height referenced from identifiable location on vehicle underbody and the height off the ground with vehicle at operational ride height of the lowest portion of each roof or overhead B-kit panel surface. The Contractor shall also provide additional schematics to depict the details of the B-kit armor overlap designs and armor attachment methods. (CDRL B039 Vulnerability Analysis Input Data)

C.2.1.4.3 High Fidelity Modeling Technical Exchange

For the life of the contract, 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 with the HF modeling organization and allowing the transfer of Contractor, subcontractor, and component vendor CAD models (reference CDRL B041, Production Technical CAD data) and other M&S data (reference CDRL B039, Vulnerability Analysis Input Data, and CDRL B040, CAE Models and M&S Input Data) 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 attend 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 present at these technical exchange meetings. For planning purposes, these meetings are expected to be one (1) day events.

C.2.1.4.4 Computer Aided Engineering Models and Modeling and Simulation Input Data

For the life of the contract, 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. The Contractor shall submit fully completed Modeling and Simulation (M&S) input data for each JLTV FoV configuration. (Attachment 0012, M&S Input Data) (CDRL B040, CAE Models and M&S Input Data)

C.2.1.4.5 Government Managed C4ISR Interoperability Initiatives Participation

For the life of the contract, 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 Vehicular Integration for C4ISR and Electronic Warfare Interoperability (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 technical personnel to participate in Government interoperability initiatives.

C.2.1.4.6 At-Platform Test Devices For the life of the contract, the Contractor shall utilize only GFE At-Platform test devices (Maintenance Support Device-MSD, Vehicle Automated Diagnostic System-VADs, and Electronic Maintenance Support System-EMSS) for the electronic maintenance of the JLTV Vetronics. The Contractor shall provide technical information to the GFE At-Platform PMs to add JLTV FoV capabilities to existing GFE At-Platform software specific applications hosted on the At-Platform test devices. If the Contractor requires additional JLTV applications (either COTS or Contractor developed) to be installed on the GFE At-Platform devices the Contractor shall work jointly with the JPO JLTV and GFE PM(s) to obtain an Army Certificate of Networthiness (CON) and Cybersecurity verification. JLTV applications hosted on the GFE At-Platform devices shall be included in all JLTV FoV software activities to include configuration management, source code delivery, software verification, installation media and executables, Cybersecurity Assurance, Contractor Systems Integration lab (CSIL) and Government Systems Integration Lab (GSIL) integration, TDP and software.

Each of the GFE At-Platform test devices shall be able to independently support the electronic maintenance needs of the JLTV FoV.

C.2.1.4.7 GFE Integration

For the life of the contract, 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).

C.2.1.4.7.1 GFE Modification

For the life of the contract, the Contractor can modify GFE wiring to support JLTV LRIP GFE integration and shall not modify any other part of the GFE items. If the Contractor is not able to integrate complete GFE kit wiring to meet performance requirements, the Contractor shall provide integration items as part of the vehicle design. The Contractor shall identify all re-used (in original or modified form) GFE kit wiring part numbers (NSN and supplier part number) in the PBLI. (CDRL B010, PBLI).

C.2.1.4.7.2 GFE Software Integration

For the life of the contract, the Contractor shall integrate the current version of Software GFE and GFI as of the first CSIL

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 30 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

Demonstration (Section C.2.1.6.1.2). Throughout contract performance, the Contractor shall integrate updated versions of Software GFE and GFI, in the CSIL, GSIL, and on all vehicles, for critical fixes or significant functionality improvements.

C.2.1.4.8 Reserved

C.2.1.4.9 CSIL/GSIL GFE Integration and Evaluation

The Contractor shall evaluate the suitability of GFE systems identified in GFE/GFI List (Attachment 0027) as GSIL and CSIL integration and evaluation. The Contractor shall integrate the specified systems into the CSIL and GSIL and document the systems performance in CDRL B043, Growth Margin Analysis.

C.2.1.5 Risk Management

For the life of the contract, the Contractor shall perform Risk Management activities identified in this section.

C.2.1.5.1 Manufacturing Development Strategy

For the life of the contract, 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 (reference C.1.3.6). 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, Manufacturing Development Strategy)

C.2.1.5.2 Contractor Risk Management Planning

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 for the life of the contract, 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 CDRL A001, Agenda and Read Ahead and CDRL A002, Minutes).

C.2.1.5.2.1 Risk Tracking Reports

For the life of the contract, 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 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, Risk Management Scoring Criteria and Reporting Template. (CDRL B009, Risk Tracking Reports)

C.2.1.6 Verification

C.2.1.6.1 Verification Testing

The Contractor shall perform verification testing activities identified in this section.

C.2.1.6.1.1 Systems Interoperability

The Contractor shall deliver an interoperable and certifiable system including Net Ready Certification, Army Interoperability Certification (AIC), and USMC Interoperability Certification (UIC). Systems interoperability shall include interoperability of all hardware, software, and logistics systems included in the JLTV FoV (including CFE, GFE, and GFI). The Contractor shall generate substantiating data to demonstrate system interoperability (reference CDRL B007, System Interoperability Report).

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 CSIL 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.

C.2.1.6.1.1.1 Systems Interoperability Report

For the life of the contract, 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. The report shall include all interoperable systems and be updated as the JLTV FoV design evolves. (CDRL B007, System Interoperability Report)

C.2.1.6.1.1.2 Systems Interoperability Post-LRIP

The Contractor shall provide and deliver interoperable and certifiable systems (as defined in C.2.1.6.1.1) in the post-LRIP phase. The contractor shall conduct recertification examinations prior to the certification expiration date at the CSIL or Government sites.

Name of Offeror or Contractor:**C.2.1.6.1.2 Contractor Systems Integration Lab (CSIL)**

For the life of the contract, the Contractor shall develop and use the CSIL to integrate and test all JLTV FoV electrical system (incl. Vetronics, 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 CSIL 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 CSIL connectivity and data exchanges to Government satellites (incl. GPS) and near-by test vehicles. The CSIL 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 CSIL shall be able to demonstrate actual hardware for both four-seat and two-seat variants. The Contractor shall provide the Government access to the CSIL and provide the ability for the Government to execute tests and collect its own data independently.

The CSIL shall be functional and the Contractor conducts a SIL Configuration and Verification Audit (SCAVA) prior to the Baseline Cyber Security Scans. The Contractor shall also conduct a SCAVA prior to subsequent Cyber Scans and changes to software or hardware production baseline and interoperability test events. Starting at the Baseline Cyber scans the CSIL shall: be considered a configuration managed item IAW MIL-HDBK-61A; remain operationally functional and complete; up-to-date software and hardware. The Contractor shall not transfer allocated CSIL assets without Government CM notice.

ECPs, when directed in an STS Work Directive or when proposed by the Contractor shall be validated in the CSIL and documented prior to implementation on the vehicles.

C.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.

C.2.1.6.1.2.2 Spectrum Frequency Allocations

For the life of the contract, the Contractor shall obtain frequency authorization for all GFE radio transceivers, from the Federal Communication Commission (FCC), prior to utilizing controlled frequencies at a Contractor location.

C.2.1.6.1.2.3 Communication Security

For the life of the contract, the Contractor shall maintain a Communication Security (COMSEC) Account under the guidelines and policy established by the National Security Agency. The COMSEC account will be equipped to operate as an Electronic Key Management System (EKMS) Tier two (2) workstation capable of generating and receiving electronic keying material from the National Security Agency Tier zero (0) EKMS, EKMS Tier one (1), and other COMSEC Accounts, Tier two (2) EKMS. The account will also be capable to be equipped in the future (post EKMS) as a fully functioning Key Management Infrastructure (KMI) client COMSEC Account.

C.2.1.6.1.3 Government System Integration Lab

The Contractor shall deliver the technical documents (reference CDRL B054, Technical Documents), hardware and software for two GSILs, one located near Warren MI, and one located near Quantico VA. The contractor shall install all equipment and software into the GSILs. The Contractor shall provide all technical information required for installation of the hardware and software into the GSILs. In addition to installing GSILs equipment and software, the Contractor is responsible for maintaining software and hardware updates to ensure synchronization of the GSILs and CSIL. The Contractor shall provide the necessary JLTV FoV CFE (Kits, LRUs, hardware, software, wiring) and technical information for the GSILs to exactly replicate the systems and equipment in the CSIL. The Contractor shall be responsible for ensuring any changes (hardware, software, and interfaces) made to CSIL are also incorporated in GSILs throughout the life of contract (including, but not limited to, CSIL changes made as a result of a contractor proposed ECP). The Government will provide GFE, benches, 120V and 208 single phase AC power, and COTS laboratory test equipment.

C.2.1.6.1.3.1 Government Initiated GSIL Change

All changes to the GSIL generated by the Government will be funded by the Government as part of an ECP or STS Work Directive. If changes to the GSILs are required as result of the Government ECP, the required efforts will be captured in an STS work directive.

C.2.1.6.1.4 Cybersecurity Vulnerability Management - Operational Cybersecurity Testing

The Contractor shall analyze the results of Operational Cybersecurity (Blue and Red Team) test events and implemented countermeasures to enhance the overall security posture of the JLTV FoV information systems. The Contractor shall brief and display their analysis of the test results during Program Management Reviews, and IPT meetings (reference CDRL A001, Agenda and Read-Ahead Package and CDRL A002, Minutes)

C.2.1.6.1.5 Software Test Report

The Contractor shall deliver a Software Test Report for the life of the contract. The Software Test Report shall document all testing (regression, unit, subsystem, system) performed on the software release prior to delivery to the Government, and all known deficiencies with the software. (CDRL B033, Software Test Report)

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 32 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001
Name of Offeror or Contractor:		

C.2.1.6.2 Verification Reporting

C.2.1.6.2.1 Environmental Survivability and Reliability

C.2.1.6.2.1.1 Electromagnetic Environmental Effects (E3)

For the life of the contract, the Contractor shall perform analyses, studies, inspections, and tests to characterize the E3 performance of the integrated system including all spectrum-dependent subsystems, CFE Kits, and GFE. The Contractor shall provide an E3 Performance Report that details the E3 performance and compliance with the applicable E3 standards identified in the JLTV Purchase Description (CDRL B045, E3 Performance Report).

C.2.1.6.2.1.2 Co-site Interference and Antenna Optimization Report

For the life of the contract, the Contractor shall analyze potential interference patterns (co-site interferences) 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. (CDRL B046, Co-Site Interference and Antenna Optimization Report)

C.2.1.6.2.1.3 MIL Grade Connector Requests for Deviation

The Contractor shall submit a Request for Deviation (RFD) for non-MIL grade connectors to include the content defined in MIL Grade Connector RFD Form (Attachment 0014 MIL Grade Connector RFD Form), Attachment 0021 Request For Deviation, and shall include technical justification and qualification standards for the use of the alternate connector. All non-MIL grade connector RFDs shall be submitted to the COR by PBR. Permanent waivers are not approved until incorporated via modification to the contract.

C.2.1.6.2.2 Data Bus Communication Failure Default Mode Analysis

For the life of the contract, 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 shall be captured as part of DFMEA and reported when responding to ECPs, FACARs, and PQDRs (reference E.14.1).

C.2.1.6.2.3 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. (CDRL B048, Transportability Report)

C.2.2 RELIABILITY, AVAILABILITY, AND MAINTAINABILITY (RAM) PROGRAM

C.2.2.1 RAM Program

The Contractor shall develop, implement, and maintain a comprehensive RAM Management Program for the life of the 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 C.2.2.2. 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. (CDRL D001, RAM Management Plan).

C.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 life of the contract. The Government will provide the JLTV FoV Failure Definition Scoring Criteria (FDSC) (reference Attachment 0054, 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 (Engineering Change Proposals (ECPs)

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 33 of 111**

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD 0001

Name of Offeror or Contractor:

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 (Attachment 0058, JLTVM RAM FEF Guidelines). (CDRL D004, Failure Mode Tracking Report)

C.2.2.1.2 Software Reliability

For the life of the contract, 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 CDRL A002, Minutes).

C.2.2.1.3 RAM IPT

The Contractor shall host weekly RAM IPT meetings for the life of the contract. The Contractor and Government shall establish the date, time, and duration of the weekly RAM IPT meetings at the Contract SOWM. The Contractor shall provide meeting minutes (Reference CDRL A002, Minutes).

C.2.2.2 Reliability Availability Maintainability Model

For the life of the contract, the Contractor shall develop and utilize a RAM model for each JLTVM 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.

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 items, 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 Contractor shall use the JLTVM Failure Definition and Scoring Criteria (FDSC) (Attachment 0054, JLTVM FDSC) and the Operational Mode Summary and Mission Profile (OMS/MP) (Attachment 0055, OMSMP).

C.2.2.2.1 RAM Predictions

For the life of the contract, the Contractor shall develop, maintain, and deliver a RAM prediction report. The report shall provide detailed RAM predictions IAW the JLTVM Purchase Description (Attachment 0001) based on a defined mission package configuration. RAM predictions shall include predictions at the LRU level for the JLTVM 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 system level, component level, and subsystem level test demonstrated data from Government RAM testing on JLTVM assets. When JLTVM Government RAM test data is not available, the Contractor may use Government test data from previous systems or test data generated from commercial items with inputs at least equivalently demanding as the JLTVM FoV Operational Terrain (JLTVM Purchase Description (Attachment 0001), Annex OMS/MP). The Contractor shall not base its RAM predictions solely on models, on Non-Electronic Parts Reliability Data (NPRD), MIL-HDBK-217 data, or RAM allocations. 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. (CDRL D002, RAM Prediction Report).

C.2.2.3 Reliability Improvement Plan

For the life of the contract, the Contractor shall develop, implement, and deliver a Reliability Improvement Plan for identifying candidates for growing reliability above the requirements in the JLTVM 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. (CDRL D003, Reliability Improvement Plan)

C.2.3 INTEGRATED PRODUCT SUPPORT (IPS)**C.2.3.1 IPS Program**

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 34 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

For the life of the contract, 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 and LPD tasks and subtasks that is required to develop and produce the required logistics products to be used by the Government.

C.2.3.2 IPS Program Management

For the life of the contract, 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 in conjunction with the Contract SOWM. The Contractor shall plan to conduct weekly IPT meetings through FRP decision to discuss all IPS elements with the Government. In support of weekly IPT meetings, the Contractor shall present metrics to the Government for development of logistics products that include the Technical Publication work packages, provisioning data, training data, and packaging data in graph form with supporting data. The establishment of metrics shall be discussed with and agreed to by the Government. The Contractor shall submit the metrics in a read ahead package (reference CDRL A001, Agenda and Read-Ahead Package).

C.2.3.2.1 IPS Program Management Plan

For the life of the contract, 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. (CDRL C001, IPS Program Management Plan)

C.2.3.2.2 Data Validation

For the life of the contract, The Contractor shall validate all Integrated Product Support data deliverables prior to submittal to the Government.

C.2.3.2.3 Dedicated Hardware

For the life of the contract, The Contractor shall ensure sufficient quantities of dedicated hardware and support items to accomplish all IPS development, reviews, validations, verifications, and logistics demonstrations (LDs) are available to support each event

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

For the life of the contract, 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 who will notify the Contractor of the determination. 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).

C.2.3.2.4 IPS Schedule

For the life of the contract, the Contractor shall develop and maintain, as a subset of the JLTV program IMS, an IPS Schedule to manage the JLTV IPS activities. 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 CDRL A004, 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.

C.2.3.2.5 IPS Management Control Log

For the life of the contract, the Contractor shall maintain an IPS Management Control Log that tracks all changes to the JLTV FoV configuration and Logistics Data baseline. The log shall identify impacts to IPS and LPD, whether required or not, and include the data elements identified IAW CDRL C003, IPS Management Control Log.

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.

C.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 shall serve as the JLTV

Name of Offeror or Contractor:

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.

C.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 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. (CDRL C004, Logistics Product Data) (CDRL C005, Logistics Product Data plan)

C.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. (CDRL C006, Level of Repair Analysis Report)

C.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.

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). Sequential narrative instructions and procedures shall be input into PowerLOG-J after TM and IETM validation and shall be updated in PowerLOG-J after successful TM and IETM verification and Government acceptance.
- (c) Support requirements for performing each task. These requirements shall include Military Occupational Specialty (MOS), skill levels, tools, support equipment, Automatic Test Equipment (ATE), Test Program Sets (TPS), and repair parts.

C.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, 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. Results of the RCM

Name of Offeror or Contractor:

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 and update RCM analysis data. 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. (CDRL C007, Reliability Centered Maintenance Report)

C.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 days 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 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, Read Ahead and Agenda) and the results of these reviews will be documented in the meeting minutes (reference A002, Minutes).

C.2.3.3.5 Spares Acquisition Integrated with Production Planning

The Contractor shall develop a 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, Minutes) of the Logistic IPT meeting. The Government intends to purchase Initial Spares and Authorized Stockage List (ASL) items based on results of sparing analysis conducted using the Selected Essential-Item Stock for Availability Method (SESAME)(reference Attachment 0009 SESAME Guide), as follows in the subparagraphs.

C.2.3.3.5.1 SAIP Initial Spares List

The Contractor shall develop and provide a recommended initial spares list of JLTV FoV support items using SESAME. The Government will review and approve the list and may procure initial spares by modification to this contract. The Contractor shall update the approved 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. (CDRL C008, SAIP Initial Spares)

C.2.3.3.5.2 Authorized Stockage List

The Contractor shall develop and provide an initial recommended Authorized Stockage List (ASL) for the JLTV FoV, using SESAME. This list shall include prices and quantities for each support item. The Government will review and approve the list and may procure ASLs by modification to this contract. 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. 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. (CDRL C009, Authorized Stockage List)

C.2.3.3.6 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 CDRL C004, Logistics Product Data).

C.2.3.3.7 RESERVED**C.2.3.3.8 System Support Package Content List**

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. (CDRL C010, SSPCL).

C.2.3.3.9 Failure Modes Effects and Criticality Analysis

The Contractor shall perform Failure Modes Effects and Criticality analysis (FMECA) on the product baseline(s) for the JLTV FoV. The FMECA shall be IAW Attachment 0036, 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 Contract 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 CDRL

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 37 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

C004, Logistics Product Data).

C.2.3.3.10 Kit Installation Instructions

C.2.3.3.10.1 The Contractor shall develop installation instructions for all JLTV FoV kits. A copy of the installation instructions shall be included with each hardware kit delivered. Unless otherwise specified by the Government, kit instructions shall be written for Field Level Maintenance (FLM) to install.

C.2.3.3.10.2 The Contractor shall conduct a validation for each kit installation instruction prior to verification by the Government; all kits are subject to Logistics Demonstration (LD). The Contractor shall update the installation instructions based on Government comments and provide a copy of the final instructions, (CDRL C002, Kit Installation Instructions).

C.2.3.3.11 Fault Inducement Kit

C.2.3.3.11.1 Contractor shall design and produce Fault Inducement Kits (FIK) to support log demo verification and New Equipment Training (NET).

C.2.3.3.11.2 Depending on system design, the FIK shall consist of Electrical, Hydraulic, or Air system components or devices designed or altered to be used to simulate faults on vehicles. These may include jumper wires, switches, circuit breakers, dummy connectors. The FIK shall be used to induce faults identified in Program of Instruction (POI) and be non-intrusive and not easily recognized by the personnel being trained. The FIK shall include parts content listing and include purpose, install and removal procedures, and related technical information.

C.2.3.3.11.3 The FIK shall allow for 12-20 faults to be induced and be portable and self contained in a carrying case, pouch, or bag. Examples of FIK items are:

1. Fault connector to be inserted on Throttle Position Sensor between MC and TPS-low voltage fault code.
2. Fault connector to be inserted on Oil Pressure Sensor between major component (MC) and sensor-low voltage fault code.
3. Fault connector to be inserted on Turbo Boost Sensor between MC and sensor.
4. Fault relays to insert in place of original relay to create fault codes for Anti-Lock Brake System (ABS) and other systems.
5. Fault connector to be inserted on Central Tire Inflation System (CTIS) power manifold inflate/deflate solenoid MC connector.
6. Fault connector to be inserted on transmission sensors to create fault codes.

C.2.3.3.11.4 Fault Inducement Kit Quantities

C.2.3.3.11.4.1 Fault Inducement Kits in System Support Package

Two kits shall be provided as part of the System Support Package and verified at Log Demo.

C.2.3.4 Technical Publications

C.2.3.4.1 Copyright License

All JLTV FoV technical publications prepared under this contract are expected to come to the Government with unlimited rights. While the Contractor is entitled to mark a copyright notice on material created under this contract, the Governments technical data rights will include a license to this copyrighted material. 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 license from the Subcontractor and furnishing such license to the Government IAW DFARS 252.227-7013(d). The Contractor shall provide a copyright license document including a license document for its own materials created or delivered under this contract. (CDRL C011, Copyright Release)

C.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 develop technical publications for Operator, Field and National Maintenance Work Requirement (NMWR) level tasks IAW AR 25-30 (reference C.2.3.4.8 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 CDRL C004, Logistics Product Data), and shall support the 2 Level Maintenance standard.

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 and all associated kits. Technical publications shall be developed using additional military standards and 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).

The following technical publications shall be developed and delivered in accordance with Section C.2.3.4.8 and CDRL C017, Technical Publications:

Name of Offeror or Contractor:

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 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 and 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 TABLE A-II (Operator Matrix)).

(b) Hand Receipt. The Contractor shall develop a Hand Receipt (-10-HR) containing all items to be accounted with the vehicle 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 TABLE A-XVII Functionality Matrix, and Attachment 0039 TABLE A-XXI Content Selection Matrix. 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 with Smart Wireless Internal Combustion Engine (SWICE) and Marine Corps Vehicle Automated Diagnostic System (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 TABLE A-II (-13 and 13 and P)), 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 CDRL C004, LPD).

C.2.3.4.3 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. The plan is to be submitted to the Government for review and acceptance prior to the development of the TMs IAW CDRL C012, 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. (CDRL C012, TM Book Plan)

C.2.3.4.4 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. (CDRL C013, Technical Publications Interactive Electronic Technical Manual (IETM) Content Plan)

C.2.3.4.5 Technical Publications Schedule and Status Report

The Contractor shall provide a Technical Publications Schedule and Status Report to the Government to permit the Government 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 CDRL A003 IMS). 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. (CDRL C014, Technical Publications Schedule and Status Report)

C.2.3.4.6 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. (CDRL C015, Electronic Maintenance System (EMS) Next Generation (NG) Software Report)

C.2.3.4.7 Technical Publications Cost Report

The Contractor shall develop a Technical Publications Cost Report that provides the Government with the actual technical publication costs that the Government can use for planning, evaluation, and future TM development cost estimating. (CDRL C016, Technical Publications Cost Report)

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 39 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

C.2.3.4.8 Technical Publications

The Contractor shall provide Technical Publication deliveries for each manual developed under 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 or FRC review(s) at no additional cost to the Government. (CDRL C017, 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 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.

C.2.3.4.9 Technical Publications Quality Assurance Plan and Records

All delivered TM and IETM information shall be complete in content, technically accurate, and useable by target audience. The TM and IETM shall match the vehicle configuration as defined by the IPS configuration freeze. To meet these requirements, the Contractor shall develop and use a Quality Assurance (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 the Contractors QA Plan, records, and processes throughout the duration of the contract.

C.2.3.4.10 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 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. (CDRL C019, Technical Publications Validation Plan)

C.2.3.4.11 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 with SWICE, 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/>

C.2.3.4.12 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). The Contractor shall deliver the Sustainment Level Preliminary NMWRs within 60 days after validation. (CDRL C020, NMWR Delivery)

C.2.3.4.13 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. (CDRL C021, Technical Publications Validation Certificate)

C.2.3.4.14 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

Name of Offeror or Contractor:

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 with SWICE along with the EMS NG Autonomous Diagnostic Manager (ADM) software for interactive diagnostics. The Government will provide Contractor with GFE to test software usability and functionality.

C.2.3.4.15 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.

C.2.3.4.16 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. Sequential narrative instructions and procedures and other associated LPD shall be input into PowerLOG-J, within the appropriate associated record fields, after TM and IETM validation and shall be updated in PowerLog J after successful TM and IETM verification and Government acceptance. (CDRL C022, Content Management System)

C.2.3.4.17 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 (reference Attachment 0037 TABLE A-II (Operator Matrix)).

C.2.3.5 Logistics Demonstration

C.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.

C.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. For planning purposes, the Log Demo is planned to take place approximately 18 months after award.

The contractor shall:

a. provide on-site support during the logistics demonstration (LD) by providing the following:

1. An experienced contractor Engineering representative shall be present to respond to issues identified during the LD. This representative will coordinate with all functional organizations necessary to resolve this issue.

2. have the contractor's provisioning and training representative on site during logistics demonstration to ensure RPSTL and training issues are identified and resolved.

3. 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.

b. 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.

c. 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.

d. consolidate, package, and mark all Mandatory Replacement Parts (MRP) by task, for ready access during the Log Demo.

Name of Offeror or Contractor:

- e. have back-up documentation for each work package organized and readily available during the Log Demo.
- f. 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 CDRL C023, Log Demo Results Report).
- g. conduct a Log Demo readiness review with the Government at the event site six weeks prior to start of the logistics demonstration.
- h. provide facilities and equipment that minimizes distraction and offers a safe, comfortable, and relatively clean work environment.
- i. provide for a Government conference room near the worksite with two (2) phone and four (4) internet access points, excluding WI-FI.

C.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. (CDRL C023, Log Demo Results Report)

C.2.3.6 Provisioning Program**C.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 plan shall address the Contractors provisioning process and organization, to include any Subcontractors. (CDRL C024, Provisioning Plan and Analysis)

C.2.3.6.2 Provisioning Parts List

The Contractor shall develop, maintain, and provide Provisioning Parts Lists (PPL) IAW Attachment 0043, Provisioning Requirements Statement, and Attachment 0044 Data Requirements Form for Acquisition Requirement Package (ARP).

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. A single Provisioning Contract Control Number (PCCN) will be assigned to JLTV vehicles and trailer. Separate Provisioning Control Codes (PCCs) will be provided for each JLTV FoV Model. 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 download 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).

C.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 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 or 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:

Name of Offeror or Contractor:

- 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 or 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.

C.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.

C.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 (For example, 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. (CDRL C025, Pre-Procurement Screening Data)

C.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.

C.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.

C.2.3.6.8 Provisioning Technical Documentation Guidance**C.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.

C.2.3.6.8.2 Maintenance Replacement Rates

The Contractor shall use results from RAM data 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

Name of Offeror or Contractor:

(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.

C.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.

C.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. For items already in the federal supply system, the Contractor shall use the price identified in FED LOG (or comparable information service). Determination of pricing data shall be in the following order of precedence:

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

C.2.3.6.8.5 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.

C.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 JLTIV 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)
- 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

C.2.3.7 Packaging, Handling, Storage and Transportation**C.2.3.7.1 Packaging for the JLTIV FoV**

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

C.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 and DMWR candidate items, Line Replaceable Units, and any large, high cost item classified as a Special Group Item (reference C.2.3.7.3.2, Special Group). 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 in paragraphs 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.

C.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, C.2.3.7.3.1, and C.2.3.7.3.2.

C.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

Name of Offeror or Contractor:

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 C.2.3.7.4).

C.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.

C.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 Packaging Data Products, and Attachment 0046 Incoming Transaction Format. All associated packaging LPD shall be input, maintained and updated in the PowerLOG-J application. (CDRL C026, LPD Coded Data Products Packaging).

C.2.3.7.5 Special Packaging Instructions

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. (CDRL C027, SPI)

C.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. (CDRL C028, Packaging Validation Test Report)

C.2.3.7.7 Equipment Preservation Data Sheets

The Contractor shall develop 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 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. (CDRL C029, Equipment Preservation Data Sheets)

C.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 uniqueness of the process and 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. (CDRL C030, EPDS Validation Report)

C.2.3.7.8 Long Life Reusable Containers

C.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, Revisions and Exceptions to SAE ARP 1967A. All associated packaging LPD shall be input, maintained and updated in the PowerLOG-J application. (CDRL C031, Container Design Retrieval System (CDRS) Search Request)

C.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

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 45 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

containers is forbidden except for the container skids.

C.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 TB 9-289 Technical Bulletin for the Reconditioning of Type I and Type II Reusable Metal Containers, shall be used as a guide.

C.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 Attachment 0047 Revisions and Exceptions to SAE ARP 1967A. The Contractor shall develop the container for multi-modal transportation including truck, rail, air, and ocean.

C.2.3.7.8.5 Concept Drawing

The Government will furnish TACOM CAGE Code (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. (CDRL C032, Concept Drawing-LLRC)

C.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 CDRL C033 Prototype Container and Test Plan. Testing shall be IAW SAE ARP 1967A and Appendix A of Attachment 0047 Revisions and Exceptions to SAE ARP 1967A. (CDRL C033, Prototype Container and Test Plan)

C.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. (CDRL C034, Container Fit-up Validation Report)

C.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 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 CDRL C033, 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. (CDRL C035, LLRC Test Report)

C.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 Government approval of a reusable container design and test report. The Government will supply part numbers and drawing numbers for the new parts and drawings. Product drawings shall comply with the most current version of ASME-Y14.100 and ASME-Y14.5M at time of award. Configuration management data shall comply with paragraph C.2.1.1.5. Electronic drawing file format shall be PRT, IGES, or PDF. (CDRL C036, Packaging LLRC TDP)

C.2.3.8 Training

C.2.3.8.1 Training Products Objectives

The Contractor shall develop JLTV training for 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 C.2.3.8.6) 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 issued an OF 346 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. Upon completion, the training shall have enabled

Name of Offeror or Contractor:

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.

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. Upon completion, the training shall have enabled 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.

C.2.3.8.2 Program Training Support

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

C.2.3.8.2.1 RAM Training

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 in Attachment 0056, VEASAM. 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.

C.2.3.8.2.2 Logistics Demonstration

The Contractor shall conduct a JLTV FoV familiarization training for operator, crew, and maintainer to military personnel, civilian personnel and Contractor personnel in support of the Logistics Demonstration at the locations indicated by Government. The Contractor shall conduct up to four training events, not to exceed two days for each event, 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.

C.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 locations indicated in Attachment 0056, VEASAM. 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 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.

C.2.3.8.2.4 Instructor and Key Personnel Training

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

C.2.3.8.3 Management of Training Development**C.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 CDRL C037, Training Program Development and Management Plan.

C.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.

C.2.3.8.3.3 Instructors

The Contractor shall provide qualified instructors experienced with teaching methods, strategies, and techniques. Instructors shall be

Name of Offeror or Contractor:

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 CDRL C037, 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.

C.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 Government 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 CDRL C038, Training Program Development Reports).

C.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. (CDRL C038, Training Program Development Reports)

C.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 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.

C.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. (CDRL C039, Training Support Package)

C.2.3.8.4.2 Training Materials Changes

The Contractor shall develop training materials changes to be incorporated into the Training Support Packages (reference CDRL C039, 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.

C.2.3.8.4.3 Classroom Set-Up

The Contractor shall provide all instructor equipment required to conduct the class 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.

Name of Offeror or Contractor:

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

C.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. The JPO JLTV NET Managers will review the certificate template and provide notification of corrections, if required. (CDRL C040, Course Certificates)

C.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. 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. (CDRL C041, Class Demographic Data)

C.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 After Instruction Report or an After Action Review (AIR/AAR). Content of the AIR and AAR will be tailored to the specific course taught and submitted to the Government for review (reference CDRL C088, 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 (CDRL C042, After Instruction Report (USMC), After Action Review (Army), and End of Course Survey).

C.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.

C.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, Maintainer, and Sustainer.

The Contractor shall compare existing military training and readiness standards, Formal School Programs of Instructions and Learning Analyses 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.

In the analysis Contractor shall also use;

For Operator tasks, the Government developed JLTV FoV Master Task List (Attachment 0083 JLTV FoV Master Task List).

For Maintainer and Sustainer tasks, the National Automotive Technicians Education Foundation (NATEF) Program Accreditation Standards, Applied Academic & Workplace Skills for Collision Repair & Refinish Technicians and Applied Academic & Workplace Skills for Medium and Heavy Truck Technicians for Maintainer Task List available at the NATEF web-site (<http://www.natef.org/>).

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, and updated in PowerLOG-J. (CDRL C043, Training Task Data)

C.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. (CDRL C044, Learning Analysis Report)

C.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 description 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

Name of Offeror or Contractor:

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. (CDRL C093, Training Support Package)

C.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. (CDRL C045, Lesson Plans)

C.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. (CDRL C046, Instructor Guides)

C.2.3.8.6.6 Student Guides

The Contractor shall develop and deliver 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. (CDRL C047, Student Guides)

C.2.3.8.6.7 Training Test Package

The Contractor shall utilize the Government approved Training Test Package (CDRL C048, Training Test Package) which shall include two written examination versions and one set of performance tests for the examination of an individual's knowledge, skills, abilities, and achievement of terminal and enabling learning objectives based upon the Learning Analysis Report (reference CDRL C044). 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 (3) test items for each learning objective. Written test shall contain no more than 50 questions and no less than 25 questions. The performance tests shall be developed to evaluate the students ability to perform specific operator or maintainer task 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.

C.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. (CDRL C049, Job Aids)

C.2.3.9 Item Unique Identification Markings

For the life of the ccontract, 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, 211.274-2, 211.274-4, and 211.274-5.

C.2.3.9.1 IUID Requirements

For the life of the ccontract, 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

C.2.3.9.1.1 Data Plates

For the life of the ccontract, 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

Name of Offeror or Contractor:

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.

C.2.3.9.1.2 Data Plate Information

For the life of the contract 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)

C.2.3.9.1.3 Sub-assembly Data Plates or Markings

For the life of the contract, 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)

C.2.3.9.2 IUID Marking Plan

For the life of the contract, 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 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. (CDRL C053, IUID Marking Plan)

C.2.3.9.2.1 IUID Review Session

For the life of the contract, 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 CDRL C053, IUID Marking Plan) and for the Government to approve the list of components that must include IUID markings.

C.2.3.9.3 IUID Validation and Verification Report

For the life of the contract, 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. (CDRL C054, IUID Validation and Verification Report)

C.2.3.9.4. IUID Logistics Product Data

For the life of the contract, 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 life of the contract shall be immediately updated in PowerLOG-J as they occur.

C.2.3.9.5 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

Name of Offeror or Contractor:

IUID Schema document. For the life of the ccontract, 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. (CDRL C055, Unique Item Identifier Report)

C.2.3.9.6 Radio Frequency Identification

For the life of the ccontract, the Contractor shall affix one Radio frequency Identification (RFID) tag to each vehicle and support package shipped Outside Continental 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.

C.2.3.9.7 Registration Numbers

For the life of the ccontract, 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.

C.2.3.9.8 Vehicle Serial Numbers

For the life of the ccontract, 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 delivery.

C.2.3.10 Support Equipment**C.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 verifications, MOT&E and I&KP Training.

C.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 C.2.3.3.3.

C.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 C.2.3.3.3.

C.2.3.11 Technical Support**C.2.3.11.1 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 Representative (FSRs) shall be experienced and qualified to 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.

C.2.3.11.2 Training Aids, Devices, Simulators, and Simulations Support

For the life of the contract, Program Executive Office (PEO) for Simulation Training and Instrumentation (STRI) in conjunction with JPO JLTV will develop Training aid Devices, Simulators, and simulations (TADSS) 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,

Name of Offeror or Contractor:

components, software, and assemblies required to manufacture or build the virtual, live, part task and hands-on trainers. (reference A002 CDRL, Minutes)

C.2.3.12 The Army Maintenance Management System

For the life of the contract, 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. (CDRL C056, The Army Maintenance Management System (TAMMS))

C.2.3.12.1 Logistics Information Warehouse

For the life of the contract, 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 CDRL C056, The Army Maintenance Management System (TAMMS))

C.2.3.13 Warranty

The Contractor shall perform all work under this subsection C.2.3.13 for the life of the contract.

C.2.3.13.1 Pass -Through Applicable Warranties

For the life of the contract, 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. (CDRL C057, Pass Through Warranty List)

C.2.3.13.2 Pass - Through Warranty Claims

For the life of the contract, 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. 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 request PCO approval to replace or repair the parts and or assemblies IAW the pass through warranties offered from its Subcontractors and vendors.

C.2.3.13.3 Warranty Coverage Database

For the life of the contract, the Contractor shall maintain warranty information in the Contractors database. This database will provide the coverage dates for the warranty coverage accessible to the Government's COR 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.

C.2.3.14 Production Report

For the life of the ccontract, 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. (CDRL C058, Production Report)

C.2.3.15 Parts Management Program**C.2.3.15.1 Parts Management Program Objectives**

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

The planning, documented procedures, all other documentation, media, information, 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 CDRL C059, 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

Name of Offeror or Contractor:

2. Material shortages
3. Lack of alternate material sources

C.2.3.15.2 Parts Management Program Manager

For the life of the contract, 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 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 In-Process Reviews (reference C.1.3.7.2).

C.2.3.15.3 Parts Management Program Plan

For the life of the contract, 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.

(CDRL C059, Parts Management Program Plan)

C.2.3.16 Diminishing Manufacturing Sources and Material Shortages

C.2.3.16.1 Diminishing Manufacturing Sources and Material Shortages Management Program

For the life of the contract, 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 DMSMS Standard Document-22 (SD-22). The Contractor's DMSMS Manager shall be designated as a key personnel position 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.

C.2.3.16.2 Designation of DMSMS member

For the life of the contract, the Contractor shall designate a DMSMS member (at a minimum a DAWIA technician level or industry certified DMSMS Technician equivalent) to the Government 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 C:\Users\James.Daily\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\0WF3NYMI\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 Government for the most cost effective solutions. The Contractor shall attend bi-annual (two meetings per FY) DMT Obsolescence Program Review meetings at a place within CONUS TBD.

C.2.3.16.3 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

Name of Offeror or Contractor:

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, 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 for the life of the contract. The plan shall use American National Standards Institute (ANSI)/TECHAMERICA STD-0016-2012, SD-22, DoDM 4140.01-V3, and MIL-STD-3018 as guidance where applicable. (CDRL C060, DMSMS Management Plan)

C.2.3.16.4 Reporting of DMSMS and obsolete parts

For the life of the contract, 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.

(CDRL C061, DMSMS Obsolescence Report)

C.2.3.16.5 Health Status Report

For the life of the contract, the Contractor shall provide a Health Status Report IAW CDRL C062, Health Status Report.

C.2.3.16.6 DMSMS quarterly report

For the life of the contract, 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 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 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, assembly, and part descriptions and any other changes that would affect the content and accuracy of the BOM. (CDRL C063, DMSMS Quarterly Status Report)

C.2.3.16.7 DMSMS Annual Progress Report

For the life of the contract, 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. (CDRL C064, Annual Report)

C.2.3.17 Failure Reporting, Analysis and Corrective Actions System**2.3.17.1 Failure Reporting, Analysis and Corrective Actions System Objective**

For the life of the contract, 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.

C.2.3.17.1.1 FRACAS Program

For the life of the contract, the Contractor shall establish and implement a closed loop FRACAS program to address JLTV PQDRS selected

Name of Offeror or Contractor:

by the Government. PQDR data and 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.

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. (CDRL C065, FRACAS REPORT)

C.2.3.18 Overpacking Operators Manual and Basic Issue Items**C.2.3.18.1 Overpacking Operators Manual**

For the life of the contract, the Contractor shall overpack a hard copy Operators Manual (-10) with each vehicle delivery.

C.2.3.18.2 Overpacking Basic Issue Items

For the life of the contract, the Contractor shall overpack Basic Issue Items (BII) with each vehicle delivery.

C.2.3.19 STORAGE AND MAINTENANCE OF VEHICLES**C.2.3.19.1 CARE AND STORAGE**

The care and storage for conditionally accepted LRIP vehicles (not including conditional acceptance of nonconforming vehicles) starts immediately upon conditional acceptance of vehicles and continues until the Government provides shipping instructions. Care and storage of all other vehicles will begin 45 days after Government final acceptance. Storage of the accepted FRP vehicles shall be provided at no charge to the Government for 45 days from DD250. The Contractor shall notify the COR and PCO when 75% of the awarded vehicle days for storing and maintaining vehicles have been expended. The Contractor shall use a checklist for each vehicle to document the inspection(s), to include how the checks were accomplished; exercising of the vehicle to include the beginning and ending mileage and maintenance performed, and include a signature of the person performing the inspection. The completed checklists will be saved in an electronic format and provided to the Government monthly. (CDRL C095, Vehicle Checklist)

C.2.3.19.2 CARE AND STORAGE PLAN

To assure that vehicles remain in an acceptable condition equal to the Final Inspection Record (FIR), the contractor shall develop and deliver a storage, exercise, maintenance plan and checklist to the Government for conditionally accepted vehicles or any vehicle that is on the lot for longer than 45 days due to lack of shipping instructions. The care and storage plan shall include instructions for exercising, inspecting, and replacement of components during storage and prior to shipment. At a minimum, the care and storage plan shall include a flowchart of the process, vehicle inspection schedule, vehicle specific exercise schedule, maintenance schedule, and description of inspections. (CDRL C094, Care and Storage Plan)

C.2.3.19.3 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. If shipping instructions are not provided by the 45th day, storage charges will begin accrual on the 46th day and actual care and storage will commence (ref C.2.3.19.1) until shipping instructions are provided.

C.2.4 VERIFICATION AND VALIDATION ACTIVITIES**C.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 ensure preparedness for Government testing by the early identification and correction of workmanship and quality issues. 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.

C.2.4.1.1 Break-in Testing

The Contractor shall develop a break-in test plan 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, 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.

C.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. (CDRL D005,

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 56 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

System-Level Verification Test Plan)

C.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. (CDRL D006, System-Level Verification Test Report)

C.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-compliant test performance is grounds for non acceptance of production deliveries.

The Vehicle Equipment and SIL Allocation Matrix (Attachment 0056, VEASAM) contains the vehicle configurations and planned test sites, schedule, estimated test duration, and types of tests required under this contract.

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.

C.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. PQT will support the FRP decision and provide information to help determine system readiness for MOT&E.

The PQT results will be utilized to establish a production baseline. In addition to the requirements set forth in Attachment 0001, all other threshold requirements set forth in Attachment 0087 (Reinstatable Production Baseline Requirements) will also be assessed during PQT. For those requirements set forth in Attachment 0087, the level of performance that is demonstrated at PQT will become part of the production baseline and added into Attachment 0001 via a contract modification at no additional cost to the government.

C.2.4.2.1.1 Performance Testing

The Government will execute Performance Testing at various test centers as described in the VEASAM (Attachment 0056, VEASAM). Performance Testing will require LRIP vehicles of each JLTV FoV mission package configuration. 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, Performance Testing may be tailored by the Government to reduce test duration.

C.2.4.2.1.2 Reliability Qualification Testing

The Government will execute Reliability Qualification Testing (RQT) at the Government test sites indicated in the VEASAM (Attachment 0056, VEASAM) for a cumulative total of up to a maximum of 160,000 miles (16,000 miles per vehicle x 10 vehicles). RQT will be accomplished in two three-month segments (for a combined total of six months), and one additional two-month segment.

During the first three months of RQT, Vehicles shall accumulate up to a cumulative 60,000 miles and shall demonstrate RAM specifications in the Purchase Description (Attachment 0001). At the end of the first segment of RQT, the Government will hold a decision review to determine if PD requirements PDFOV-2908, PDFOV- 8760, PDFOV-2917, PDFOV-3946, PDFOV-2971, and PDFOV-2973, were demonstrated. The demonstrated Mean Miles Between Hardware Mission Failure (MMBHMFF) point-estimate is calculated by taking cumulative test miles and dividing by cumulative scored Hardware Mission Failures (HMF) during RQT. The demonstrated Mean Miles Between Essential Function Failure (MMBEFF) point-estimate is calculated by taking cumulative test miles and dividing by the sum of cumulative scored Hardware Mission Failures (HMF) and cumulative scored Essential Function Failures (EFF) during RQT. If demonstrated, then the Government will continue the next 3 month segment of RQT and continue testing. A second decision review will be held by the Government after 6 months of testing (up to a cumulative 120,000 miles) to determine if the aforementioned purchase description requirements are demonstrated.

After the Second decision review, if the aforementioned purchased description requirements are demonstrated, the Government will continue into the third testing segment, accumulating up to a maximum of 160,000 cumulative test miles. During the third testing segment, the Government will conduct monthly scheduled decision reviews to determine if the aforementioned purchase description requirements are demonstrated.

The contractor shall demonstrate the requirements for each segment of RQT. If the contractor fails to demonstrate any requirements at

Name of Offeror or Contractor:

any decision review, the Government may disapprove the FAT article and, if disapproved, will require all costs related to these RQT segment FAT re-tests to be borne by the Contractor, including any and all costs for additional tests following a disapproval IAW FAR clause 52.209-4.

If the contractor traded any of the aforementioned purchase description requirements then that traded PDFOV will not be included in the Government decision review.

Vehicles and trailers planned for RAM testing, and their planned test configurations, are indicated in the VEASAM (Attachment 0056, VEASAM). Course terrain profiles are in the JLTVM OMS/MP (Attachment 0055, OMSMP). Duty cycles and payload configurations, to include trailers, are included in RAM Duty Cycles (Attachment 0057, RAM Duty Cycles).

C.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, VEASAM). SDT is intended to expose failure modes and determine gross reliability issues prior to Government RAM testing. SDT shall consist of 1500 miles on each of these vehicles IAW with the JLTVM OMS/MP (Attachment 0055, OMSMP). SDT shall be conducted with vehicles configured IAW the VEASAM (Attachment 0056, VEASAM), and performed IAW RAM Duty Cycles (Attachment 0057, RAM Duty Cycles).

C.2.4.2.1.3 Live Fire Test and Evaluation**C.2.4.2.1.3.1 Live Fire Test Evaluation Description**

The Government will execute Live Fire Test and Evaluation (LFT&E) on the JLTVM FoV to verify Force Protection requirements are met (reference Attachment 0001, JLTVM Purchase Description). LFT&E includes all ballistic, Full-up System Level (FUSL), AFES, and all armor options (reference C.2.4.2.1.3.3), if exercised. The Government may 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. (CDRL D007, Vehicle Design Changes)

C.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 JLTVM 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 (reference CDRL D007, Vehicle Design Changes). For example, if the GP and HGC have the same bottle volume, but will have unique nozzle orientation or configuration, that should be noted.

C.2.4.2.1.3.3 Armor Test Assets**C.2.4.2.1.3.3.1 Armor Coupon Sets**

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

The Contractor shall deliver to the Government an armor coupon set, for each transparent, opaque, and Explosively Formed Penetrator (EFP) armor recipe required to satisfy the protection levels defined in the JLTVM Purchase Description (Attachment 1), which was not previously characterized in testing during the EMD phase. Each recipe constitutes a unique set, such as different frontal, flank, rear, underbody, and roof armor recipes, according to the Contractor's design. 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 vehicle configuration, location of solution on the vehicle to include frontal, flank or underbody and the attack or strike side. (CDRL B039 Vulnerability Analysis Input Data)

C.2.4.2.1.3.3.2 Transparent Armor

Each TA coupon shall be 400mm by 400mm in size, with a +/- 5mm tolerance on each linear dimension. One armor coupon set of each TA unique solution shall consist of 40 coupons if B-kit level protection, 36 coupons if A-structure level protection.

C.2.4.2.1.3.3.3 Opaque Armor

The Contractor shall deliver the Opaque Armor (OA) coupons in the sizes specified below.

The Contractor shall deliver B-kit solutions bolted to the appropriate A structure coupons near each corner. Each bolt center shall be

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 58 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

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.

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.

C.2.4.2.1.3.3.4 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.

For armor solutions which contain only metallic layers and are designed to provide A-structure level protection, one coupon set of each OA unique solution shall consist of 15 coupons.

For armor solutions that contain only metallic layers, which are designed to provide B-kit level protection, one armor coupon set of each OA unique solution shall consist of 20 coupons.

C.2.4.2.1.3.3.5 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.

For armor solutions which contain ceramic or composite layers, which are designed to provide A-structure level protection, one coupon set of each OA unique solution shall consist of 19 coupons.

For armor solutions which contain ceramic or composite layers, which are designed to provide B-kit level protection, one armor coupon set of each OA unique solution shall consist of 28 coupons.

C.2.4.2.1.3.3.6 Explosively Formed Penetrator Coupons

If the Contractor proposes a non-Government provided EFP protection kit solution, the Contractor shall deliver one set of each EFP protection kit solution. One set shall consist of 10 coupons.

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 305 mm by 305 mm 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 to prevent twisted or bent bolts from making it difficult to disassemble targets after shots to assess damage.

C.2.4.2.1.3.3.7 Ballistic Cabs

Each ballistic cab shall be configured without the wheels, suspension, drivetrain, or any interior components unless they are designed to provide ballistic protection to include spall protection partitions or curtains.

The Contractor shall also deliver a test stand with each ballistic cab, 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 each test stand shall be located where the vehicle tires would normally be.

The specific configurations for three types of ballistic cabs are described as follows:

a. Two-Door A-Structure Ballistic Cab

This ballistic cab shall be two-door configuration and will have the A-structure armor level of protection.

b. Two-Door B-Kitted Ballistic Cab

This ballistic cab shall be two-door configuration and will have the B-kit armor level of protection.

c. Four-Door B-Kitted Ballistic Cab

This ballistic cab shall be four-door configuration and will have the B-kit armor level of protection. This ballistic cab shall be provided with one set of right side B-kitted replacement doors. This cab does not require a gunner protection kit (GPK).

C.2.4.2.1.3.4 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

Name of Offeror or Contractor:

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 the test site when vehicles arrive to address discrepancies as well as reconfigure the vehicle GFE and CFE for weight evaluations. FSRs shall be knowledgeable of vehicle ballistic and 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), conduct repairs necessary to allow vehicles to continue testing, and serve as a conduit for timely information exchange between the Test Center and the Contractor organization.

Each Full Up System Level (FUSL) testing vehicle is scheduled to undergo two ballistic or blast events, and the Contractor shall provide test asset repair support between these events. Between events, the Contractor shall repair these vehicles to a condition that allows for realistic assessment of accelerative load inputs to crew during blast events. For both FUSL tests, the AFES system shall be maintained to a fully operational condition. 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.

C.2.4.2.1.4 Roof Crush Test Assets

As indicated in the VEASAM (Attachment 0056, VEASAM), the Contractor shall provide two (2) cabs for roof crush testing consisting of 1 GP four-seater cab and 1 UTL two-seater cab. The following hardware shall be required as part of these test assets:

- a. Crew cabs and any supporting structural features or components
- b. Mounting hardware for the cab to allow for cab to be fastened to test fixture
- c. Seats for GP cab, drivers seat and both rear crew seats are required; For UTL cab, drivers seat only
- d. Interior spall liners and design features mounted directly to roof including foam or other materials.

C.2.4.2.1.5 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 Government testing.

C.2.4.2.1.5.1 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.

C.2.4.2.1.5.2 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 under the baseline configurations. Subsequent changes directed by the Government and testing will occur under STS portion of this contract 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 including configuring all communications hardware and software, and verifying communication with an external source. All changes proposed by the Contractor shall be at the Contractors cost. All changes generated by the Government through STS will be funded by the Government. Government approval of any changes does not constitute relief from vehicle performance requirements.

C.2.4.2.1.5.3 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. (CDRL B007, Systems Interoperability Report)

C.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 FoV in operational environment executing missions IAW the JLTV OMSMP (Attachment 0055, 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 vehicles).

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.

C.2.4.3 Refurbishment of Test Assets

The Contractor shall perform the following refurbishment activities:

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

Page 60 of 111

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD 0001

Name of Offeror or Contractor:

C.2.4.3.1 The Contractor shall refurbish all test assets that do not undergo destructive end of life testing (FUSL, AFES, roof crush) as indicated in VEASAM (Attachment 56). The assets shall be refurbished to condition code A of AR 7250, Table C-38.

C.2.4.3.2 The AFES test assets (as identified in VEASAM, attachment 56) will be test assets from the EMD phase. The contractor shall refurbish these test assets to ensure each vehicle has production representative and operational engine, AFES and HVAC system. In addition, the vehicles shall have correct and undamaged underbody armor, doors, seats, restraints, wheels, suspensions, and other components needed to support underbody blast shot. Note if AFES design in CCWC is identical to GP, then only GP will be tested for the four door variant and CCWC AFES vehicle will not be required.

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 CDRL A014, Current and Prior Configuration Indentured Bill of Materials).

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 E008 CDRL, FIR).

C.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, 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 the Contractor shall coordinate directly with Test Centers.

C.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 notification.

C.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.

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. The Contractor shall provide sufficient FSRs to support this schedule 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 and CFE throughout the Government test period whenever Government testing is being performed. Refer to the VEASAM (Attachment 0056, VEASAM) for test duration, location and types. The Contractor shall also provide dedicated FSR support for the ballistic testing of armor structures outlined in C.2.4.2.1.3. 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

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 61 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

- Recovery
- Maintenance

C.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 and 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, IMP, and CDRL A001, Agenda and Read-Ahead Package).

C.2.4.7.1 System Support Package (SSP)

The Contractor shall deliver and manage System Support Package (SSP) to to the Government no later than 45 days prior to Pre TRR. The SSP shall be sufficient in quantity and anticipated components to maintain test or demonstration schedules. The Contractor shall provide a report on all parts consumed during test events IAW CDRL A023, Service and Consumption Report. 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 MOT&E SSPs and 48 hours for other test SSPs. The Contractor shall ensure adequate support items and quantities are available during test events.

C.2.4.7.2 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 request the test sites for additional space 120 days prior to start of testing.

C.2.4.7.3 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 and 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 Government disposition.

C.2.4.8 Test Support Materials

C.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 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 and 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, Routing Diagrams-Cabling, Wiring Harnesses and Plumbing)

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

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 62 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

shall extend a minimum of 5 from any point of the external perimeter of the JLTV FoV, and not be limited to just the cab.

C.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:

- * 1 harness for each AC Export Power Kit
- * 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.

C.2.4.9 Lithium Batteries

The Contractor shall coordinate with Naval Sea Systems Command (NAVSEA) to obtain safety approval of each lithium battery system (including lithium ion batteries) used in the JLTV 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 JLTV FoV. (CDRL B014, Lithium Battery Safety Data Package)

C.2.5 TEST DEFICIENCIES AND FAILURES

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

C.2.5.1 VISION Digital Library System (VDLS) Utilization

The Contractor shall access VDLS (<https://vdls.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.

C.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 C.2.1.1.5, 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 JLTV FDSC (Attachment 0054 JLTV FDSC). 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. (CDRL D008, FACAR)

C.2.5.3 TIR Responses

The Contractor shall respond to TIRs that require a FACAR (reference CDRL D008 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

Name of Offeror or Contractor:

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. A one time extension of seven days may be requested in writing to the CART Chairperson. Requests for extensions beyond seven days require a written request to the PCO.

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 to the CART Chair, and approved by the CART Chair. Extension to Final FACARs does not constitute changes to contractual requirements for test.

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.

C.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 do not apply.

C.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 unless otherwise specified elsewhere in this contract. 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 (reference 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.

C.2.6.1.1 Government Data Rights for the Delivery of the TDP Purchase Option

If the TDP Option is exercised, then the Contractor shall deliver a TDP with markings conforming to its proposed option rights in Attachment 0072.

C.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 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 selections as defined in Attachment 0023.

C.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 JLTIV FoV. The Contractor shall not maintain or utilize a separate TDP for the purposes of production unless specific approval has been given by JPO JLTIV through the PCO. All changes to the vehicle design shall be incorporated into the TDP to be delivered to the Government by the Contractor.

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

The JLTIV 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.

C.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, TDP2. The models shall be marked IAW DFARS 252.227-7013, DFARS 252.227-7014 and DFARS 252.227-7015.

C.2.6.2.2.2 Modeling Standard

Government acknowledges that the modeling standard specified in Attachment 0024, 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 JLTIV FoV TDP. In cases where Pdm-MTV is referenced in the standard, JPO JLTIV will serve as the point of contact in all matters relating to the JLTIV FoV TDP. All technical requirements found within the standard apply unless the contractor is notified to the contrary by the PCO.

C.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 CDRL B023 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

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 64 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

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.

C.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 herein and none of the individual pieces are provisioned as spare or repair parts.

C.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.

C.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. After Government approval of a drawing (reference CDRL B023, ECP) 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.

C.2.6.2.2.7 Drawing Part 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 Government 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 CDRL B035, Part Number Report)

C.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.

C.2.6.2.2.9 Drawing Custodianship

The Contractor shall be responsible for all original document files in its possession to include 3-D CREO 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 Government to the original document files. The Contractor shall not transfer any Government drawing files without written approval from the Government.

C.2.6.2.2.10 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.

C.2.6.3 TDP Delivery Schedule

The Contractor shall begin delivery of the TDP NLT 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.

C.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, and 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,

Name of Offeror or Contractor:

Warranty of Data and shall begin at the date of submittal to the Government.

C.2.6.5 CAD Software Updates

For security reasons, the Government will occasionally migrate to updated versions of CAD software. The Contractor will be notified which CAD software is currently in use at the time of TDP option award. The Government will send updated information for any future software updates, after the option is exercised. The contractor is responsible for keeping the most current versions throughout performance of TDP efforts and shall update to this software at the same time as the Government.

C.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 and technical data necessary for the segregation of an item or process from, or the reintegration of that item or process (or a physically or functionally equivalent item or process) with, other items or processes (reference CDRL B023, ECP) to allow the Government the ability to test and qualify 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 having only the same data. Source Controlled and Vendor Item Control drawings shall also include repair part information, to include vendor part numbers to be repaired.

C.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.

C.2.6.8 Order of Precedence for TDP Requirements

In the event of a conflict between this TDP Purchase Option section (C.2.6) and section C.2.1 the requirements 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.

C.2.6.8.1 Order of Precedence for Technical Requirements within Section C.2.6

In the event of any conflict between technical requirements specified within section C.2.6, the following order of precedence shall be invoked. If no conflict exists, all requirements apply.

1. Attachments 0023 and 0024
2. MIL-STD-31000A
3. ASME Y14.41

C.2.6.9 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 and consistent with DFARS 252.227-7013, 252.227-7014 and 252.227-7015.

C.2.6.10 Engineering Change Proposals (ECP)

The Contractor shall prepare all ECPs and VECs IAW (Attachment 0020, ECP). The Windchill ECP Standard Operation Process is defined in (Attachment 0025, 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 unless exception in section H.7 applies. Government approval of the ECP does not constitute relief from vehicle performance requirements. (CDRL B023, ECP)

ECPs initiated by the Contractor to meet Purchase Description requirements (Attachment 0001), or to correct failures, or deficiencies (reference E.5) shall be retrofitted by the contractor to all vehicles produced.

C.2.6.10.1 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.

Name of Offeror or Contractor:

C.2.6.10.2 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/>.

C.3 SYSTEM TECHNICAL SUPPORT

C.3.1 GENERAL

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 under the work directive(s) modified into the contract. All work conducted under the STS effort shall be performed only as specified in the work directives approved by the Procuring Contracting Officer (PCO). ECPs, VECs and RFDs shall follow the process in Attachment 0032, Work Directive Process. When authorized by work directive, the Contractor shall furnish all services and supplies requested to accomplish Engineering, Configuration Management, Quality Assurance, IPS, maintenance, training, and testing associated with Government-initiated changes and improvements to the production vehicles, logistics products, and fielding of the JLTV. These efforts shall be performed IAW Sections C and E of this contract, and all specifications, standards, regulations, drawings, guidance and DIDs unless otherwise stated in the work directive. The engineering and related technical support functions shall also apply to development of new, changed, revised, or updated engineering and logistics efforts applicable to the JLTV FoV, auxiliary kits, training packages and test requirements. The Contractor's responsibilities shall include maintaining control of Subcontractor efforts to ensure Government requirements are met.

Specific tasks will be assigned through work directives. Beyond responding to the COR e-mail request to provide the estimated hours for FSR support and Other Direct Costs (ODC) to complete the effort defined in a draft work directive, the Contractor is to perform NO effort unless the appropriate option(s) is exercised and a Work Directive (WD) authorizes the effort. The Government is not obligated to exercise the STS option(s), detailed in section H, in part or in full.

The STS portion of this contract shall be priced out on a Cost plus Fixed Fee basis. The Contractor shall only be paid for hours actually used. The contractor shall review the proposed scope of work in each draft work directive and shall provide the estimated hours for FSR support and Other Direct Costs (ODC) to complete that effort within 10 business days of the request for proposal and draft work directive. Estimated labor hours will be funded at the composite hourly rate for each option year. All material, or other direct costs, required to perform STS efforts will be negotiated on a case by case basis. The contractor shall include a scope of work to be performed, milestone chart, and itemized projected man hour and material expenditures, with cost information to the PCO. The government will use this information to determine reasonableness of the hours and cost proposed.

The Contractor shall not exceed any amount authorized for each individual work directive. The Contractor shall notify the COR immediately by telephone and e-mail if the dates that work must be performed or data to be delivered will not be met. The Contractor shall follow-up with a letter to the PCO and COR. The Contractor shall furnish a revised statement of total hours and dollars to complete such work together with said notice. Accordingly, the Contractor shall notify the COR and PCO when 75% of the allocated funds or hours for that particular work directive have been expended or obligated IAW FAR 52.232-20 contained in this contract.

The contractor shall submit monthly Project Expenditure Reports IAW CDRL A020 for each work directive.

Work Directives.

All work under this STS section shall be performed IAW work directives approved by the PCO. Each work directive shall include the following information:

- (1) Work Directive number and Title
- (2) Reference to applicable paragraph # in Section C or E
- (3) Objective of the work to be performed
- (4) Maximum number of hours authorized
- (5) Detail description of work to be performed
- (6) Detail estimate of Other Direct Costs (ODC), including materials, purchased services, freight, travel, and other pertinent costs
- (7) Completion Date
- (8) Relative priority of the work to be performed
- (9) Identification of applicable contract number, contractors name and address
- (10) Identification of any items deliverable to the Government.

Each WD is regulated by the latest COR and PCO signed WD Revision and its listed period of performance. STS CLIN completion dates are for administrative purposes only.

The COR has the right to prioritize the work being performed under this STS clause.

Work directives shall be generated in an electronic format and transmitted via electronic media that are mutually acceptable to the Government and Contractor.

C.3.1.1 GFE Integration

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

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 67 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

C.3.1.2 Applicable Document

The Contractor shall prepare technical data in the format and scope specified in the applicable DIDs. 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 unless otherwise specified in the SOW, WD, or CDRL.

C.3.1.3 Project Status Meetings

The Contractor shall conduct an STS Start of Work Meeting at the Contractor's facility within 30 days after award of each work directive. The Contractor and Government will discuss the STS and ECP work directive requirements. For planning purposes this meeting is anticipated to last no more than one day.

C.3.1.4 Biweekly Review

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

C.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, and Contractor's efforts during reporting period. Meeting location, time and attendance shall be coordinated with the COR.

C.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 that maintain compatibility of all physical, functional and technical interfaces with the established JLTV system design and definition. This shall be accomplished without degradation to the established JLTV FoV system performance unless otherwise approved by the Government.

The Contractor shall conduct technical studies to correct known or potential operational deficiencies, to accomplish product improvements, to accomplish cost reductions, and to maintain current the contract item data for serviceability and intended use. All efforts shall consider any impact to logistics, maintainability, reliability, survivability, human systems integration, safety, interoperability or supportability. The Contractor shall consider Program Protection 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. In performance of these efforts, the Contractor may be required to contact or coordinate with manufacturers and major vendors to resolve issues and 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 Product Support (IPS) (initial or 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.

If directed by the Government, the contractor shall prepare an ECP in accordance with the base LRIP contract format. All configuration baseline changes, associated TDP changes, and updated IPS products shall be submitted with the ECP under this work.

C.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 Contractor 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.

C.3.2.1.1 Design for Manufacturability

The Contractor shall perform assessments of Design for Manufacturability (DFM) 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 production Manufacturability per the Manufacturing Development Strategy by using methods to simulate full rate production manufacturing processes.

C.3.3 General Field Service Representative

Name of Offeror or Contractor:

The Contractor shall provide Field Service Representative technical support as defined by the Work Directive as specified in an individual Work Directive. Technical support includes technical guidance, operating Government vehicles, user training, technical data collection and reporting, troubleshooting, repairing, retrofit, 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.

C.4 INTERIM CONTRACTOR SUPPORT**C.4.1 INTERIM CONTRACTOR SUPPORT OBJECTIVES**

Interim Contractor Support (ICS) approach includes 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.

C.4.2 Interim Contractor Support Options

The ICS portion of this contract shall be priced on a Cost plus Fixed Fee basis. The Contractor shall only be paid for hours actually used. The contractor shall review the scope of work, and Attachment 50, Fielding Schedule to provide the estimated hours for FSR support and Other Direct Costs (ODC) to complete that effort within 10 business days of a request for cost proposal IAW C.4. Estimated labor hours will be funded at the composite hourly rate (CONUS or OCONUS) for each option year. All material, or other direct costs, required to perform ICS efforts will be negotiated on a case by case basis. The contractor shall include a description of work to be performed, milestone chart, and itemized projected man hour and material expenditures, with cost information to the PCO. The government will use this information to determine reasonableness of the hours and cost proposed.

The Contractor is to perform NO effort unless the appropriate options are exercised. The Government is not obligated to exercise ICS options in Section H in part or in full. The Contractor shall not exceed any amount authorized under any CLIN on contract for ICS. The Contractor shall notify the COR immediately by telephone and e-mail if the dates that work must be performed or services to be performed will not be met. The Contractor shall follow-up with a letter to the PCO and COR. The Contractor shall furnish a revised statement of total hours and dollars to complete such work together with said notice. Accordingly, the Contractor shall notify the COR and PCO when 75% of the allocated funds have been expended or obligated IAW FAR 52.232-20 contained in this contract.

The contractor shall submit monthly Funds and Man-hour Expenditure Report IAW CDRL A004.

C.4.3 CONTRACTING OFFICERS REPRESENTATIVE

The Government will designate a Contracting Officer Representative (COR). The COR 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 appointment letter after award that will specify the extent of the COR authority to act on behalf of the Procuring Contracting Officer (PCO). The COR is NOT authorized to make any commitments or changes that will affect price, quantity, delivery or any other term or condition of this contract.

C.4.4 TECHNICAL SUPPORT AND SERVICES**C.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 the first ICS Options. 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.

C.4.4.2 Field Service Representative Support**C.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 0050, Fielding Location and Schedule). These personnel shall be trained and qualified to operate, diagnose, troubleshoot, maintain, train, retrofit and repair the JLTV FoV. FSRs shall have the ability to identify failures of 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 provide 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 0050, Fielding Location and Schedule)

C.4.4.2.2 Field Service Representatives Response Time

The Contractor shall ensure sufficient FSRs are available to meet all performance metrics for training and field exercises as defined by each units training and exercise employment plan to be identified by the Government. 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 Government requests for support in less than 60 minutes after notification and provide status of the maintenance action and the availability of the supported item.

C.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 activities provided by the FSRs. (CDRL C066, After Action Report)

C.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.

C.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. (CDRL A016, Service and Consumption Report)

C.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 (CDRL A001, Read Ahead Agenda) (CDRL A002, Minutes).

C.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. (CDRL A001, Read Ahead Agenda) (CDRL A002, Minutes).

C.4.4.3.3 Operator Preventive Maintenance Checks and Services

The Contractor shall provide quality assurance to the Army and Marine Corps operators and Units to ensure Preventive Maintenance Checks and Services (PMCS) for the JLTV FoV are performed IAW the current JLTV TM(s).

C.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. (CDRL C067, Compliance Report)

C.4.5 ICS METRICS REPORTING**C.4.5.1 Turn Around Time**

The Contractor shall ensure that Turn Around Time (TAT) does not exceed the designated TAT in Attachment 0051, 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. The contractor shall provide a monthly report. (CDRL C068, TAT Report)

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 70 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

C.4.5.2 Inventory Accuracy and Accountability

The Contractor shall maintain an Inventory Accuracy of 100% at any warehouse facility issuing or storing JLTV 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. The Government will use CDRL A017, Current Inventory Report to evaluate the results of each review.

C.4.6 GOVERNMENT PROVISIONS

The Government will provide access to Unit or Organization's facilities during work hours for performing maintenance on JLTV 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.

C.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.

C.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 contractor shall ensure all FSRs have appropriate safety items to perform ICS. The Government assumes no responsibility for Contractor-owned property.

C.4.7.2 Common Access Card

All Contractor personnel performing work under this effort shall obtain a Common Access Card (CAC) (reference C.1.2.4) within 15 days after exercise of option period.

C.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.

C.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 COR.

C.4.7.5 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.

C.4.7.6 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.

C.4.7.7 Special Qualifications

The Contractor FSRs must have the following qualifications:

- a. Information Assurance Technician (IAT) Level I Professional Training and Certification, IAW DoD 8570.01-M.
- 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>

C.4.7.8 Identification of Contractor Employees and Work Products

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.

C.4.7.9 Contractor Travel

The Contractor may be required to travel to CONUS and OCONUS locations during the performance of this effort to attend meetings, conferences, and train the end user. Travel to the same location on multiple occasions may be necessary. The Contractor may be required

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 71 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

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.

C.4.8 SPARES and PARTS MANAGEMENT

C.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. The Contractor shall order only Original Equipment Manufacturer (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.

C.4.8.2 Parts Procurement

The Contractor shall be responsible for all ordering, receiving, repair, packaging, handling, storage, and disposal of parts. The Contractor shall ensure the availability of parts to sustain all fielded configurations and any Government directed changes to configurations after items are fielded.

C.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.

C.4.8.4 Common Parts Managed by Government Sources of Supply

For common parts supporting all activities, the Contractor is authorized to 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). If the Contractor chooses to order parts from the Government supply system, it does not constitute relief of any other contractual requirements.

C.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/>.

C.4.8.6 Reserved

C.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 COR. 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 parts. 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 (CDRL A019, Parts Repair Report).

C.4.8.8 Reserved

C.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.

C.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 Bi-weekly 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 raised by the Government.
- 2: Identify process improvements which could increase Unit readiness or reduce Government costs.

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 72 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

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 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 (CDRL A001, Read Ahead Agenda) and meeting minutes (CDRL A002, Minutes).

C.4.10 INVENTORY MANAGEMENT

C.4.10.1 Inventory Management Plan

The Contractor shall provide a plan to manage the inventory of parts acquired to support the JLTV 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 JLTV FoV SAIP strategy. (CDRL C071, Inventory Plan)

C.4.11 WARRANTY MANAGEMENT

C.4.11.1 Warranty Coverage

If any part(s) is determined to be covered by a warranty included in this contract, the Contractor shall immediately initiate and submit a warranty claim to repair or replace (whichever is applicable) the defective parts and provide a copy to the COR and PCO. The Contractor will be allowed to inspect defective supplies under the warranty. The Contractor shall request PCO approval to replace or repair the parts and or assemblies IAW the pass through warranties offered from its Subcontractors and vendors.

C.4.11.2 Reserved

C.4.12 CONFIGURATION MANAGEMENT

C.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 COR. The Contractor shall document actions in the DMSMS Management Plan (reference CDRL C060, DMSMS Management Plan). The material disposition shall be categorized as one of three options; use until exhausted, upgrade or dispose. The Contractor shall provide any ECP and ECO related data to the Government. The COR will provide final disposition instructions of said material to allow the Contractor to take the appropriate action and adjustments of the inventory. (CDRL C072, Obsolete Material)

C.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.

C.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. (CDRL C073, Cybersecurity Vulnerability Report)

C.5 TOTAL PACKAGE FIELDING

The Contractor shall perform all work in Section C.5 and subparagraphs on a Cost Plus Fixed Fee Basis when an option is exercised in accordance with Section H.

C.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.

C.5.1.1 Introduction and Objectives

Government 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.

C.5.1.2 TPF Options

The TPF portion of this contract shall be priced on a Cost plus Fixed Fee basis. The Contractor shall only be paid for hours actually used. The contractor shall review the scope of work, and Attachment 50, Fielding Schedule to provide the estimated hours for FSR support and Other Direct Costs (ODC) to complete that effort within 10 business days of a request for proposal. Estimated labor hours will be funded at the composite hourly rate (CONUS or OCONUS) for each option year. All material, or other direct costs, required to

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 73 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

perform TPF efforts will be negotiated for each option exercised. The contractor shall include a description of work to be performed, milestone chart, and itemized projected man hour and material expenditures, with cost information to the PCO. The government will use this information to determine reasonableness of the hours and cost proposed.

The Contractor is to perform NO effort unless the appropriate options are exercised. The Government is not obligated to exercise TPF options in Section H in part or in full. The Contractor shall not exceed any amount authorized under the contract for TPF. The Contractor shall notify the COR immediately by telephone and e-mail if the dates that work must be performed or services to be performed will not be met. The Contractor shall follow-up with a letter to the PCO and COR. The Contractor shall furnish a revised statement of total hours and dollars to complete such work together with said notice. Accordingly, the Contractor shall notify the COR and PCO when 75% of the allocated funds or hours on contract have been expended or obligated IAW FAR 52.232-20 contained in this contract.

The contractor shall submit monthly Funds and Man-hour Expenditure Report IAW CDRL A004.

C.5.1.2.1 Total Package Fielding and New Equipment Training Requirements

The POP includes all TPF actions and New Equipment Training (NET) required to support the fielding of JLTV FoVs to multiple locations. The Contractor shall provide TPF support for quantity identified in Attachment 50, Fielding Location and Schedule if options are exercised. The Contractor shall provide NET with each fielding, as set forth in:

- Attachment 0050 (Fielding Location and Schedule)
- Attachment 0033 (New Equipment Training)

C.5.1.2.2 Labor Hour Usage

The Contractor shall advise the COR, if the Contractor anticipates a labor hour burn rate increase of more than 10% over the hourly rate on contract for each option period or anticipates that all labor hours will be exhausted prior to the last month of the POP, to include rationale for the increase.

C.5.1.3 General Information

C.5.1.3.1 Recognized Holidays

Contractors shall not perform 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

C.5.1.3.2 Hours of Operation

The Contractor shall provide TPF services during a 40 hour work week, Monday through Friday, at both CONUS and OCONUS locations except 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. The Government will only authorize travel during the work week (Monday through Friday), except as authorized by the COR to meet mission requirements. The Contractor shall 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.

C.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. 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 Pendleton, CA, and Camp Lejeune, NC, Japan (Okinawa and Iwakuni). All fielding will occur at Government facilities.

C.5.1.3.4 Changes Due to Other Issues

The Contractor shall provide personnel 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.

C.5.1.3.5 CONTRACTOR PROVISIONS

The Contractor shall provide FSRs, and all necessary provisions, not provided by the Government, to perform the maintenance, training,

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 74 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

and supply support TPF tasks.

C.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 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.

C.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 notify the COR when personnel having access to the combinations no longer have a need to know such combinations in order for the Government to change combinations.

C.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 COR.

C.5.1.3.5.4 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 COR.

C.5.1.3.5.5 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.

C.5.1.3.5.6 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 all Contractor personnel wear a visible identification badge at all times during the performance of this effort.

C.5.1.3.6 Special Qualifications

The Contractor shall ensure FSRs have the following qualifications:

- a. Information Assurance Technician (IAT) Level I Professional Training and Certification, IAW DoD 8570.01-M.
- 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>

C.5.1.3.7 Contracting Officer Representative

The Government will designate a Contracting Officer Representative (COR). The COR is 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 appointment letter to the Contractor immediately after award that will specify the extent of the COR's authority to act on behalf of the PCO. The COR is NOT authorized to make any commitments or changes that will affect price, quantity, delivery or any other term or condition of this contract.

C.5.1.3.8 Contract Administrator

The Contractor shall provide a Contract Administrator Point of Contact (POC) who shall have full authority to act for the Contractor when the Program Manager is unavailable. The POC shall be designated in writing to the PCO and COR.

C.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.

C.5.1.3.10 Material & Equipment

For Material and Equipment required for conduct of TPF that is not otherwise accounted for on the contract, the contractor shall follow the process stated below:

Name of Offeror or Contractor:**C.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 approval in writing prior to purchase. The Contractor shall not purchase any Material and Equipment prior to receiving COR approval. For any purchase of Material and Equipment exceeding \$5,000, the Contractor shall submit its competitive purchase results to the PCO, and COR IAW C.5.1.3.10.2 and shall receive PCO approval prior to each purchase. (CDRL C074, Material and Equipment Purchases - Supporting Data)

C.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 and COR. 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. (CDRL C074, Material and Equipment Purchases - Supporting Data)

C.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 phase-out period as follows:

C.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.

C.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 prior to the end of the contract. 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. (CDRL C075, Phase-Out Plan)

C.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.

C.5.1.3.11.4 Final Inventory Report

The Contractor shall prepare and submit a detailed final inventory report to be approved by the Government and the Contractor within one week of completing the Final Inventory (reference C.5.1.3.11.3). The inventory shall include the same information called for in the Current Inventory Report (reference CDRL A017, 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. (CDRL A013, Current Inventory Report)

C.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 (CDRL A001 Agenda and Read Ahead Package) (CDRL A002, Minutes)

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 76 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

C.5.2 GOVERNMENT FURNISHED ITEMS

It is anticipated that the Government will provide the JLTV FoV, facilities, equipment, utilities, stock shop, and materials to enable the Contractor to perform TPF as outlined in C.5 of the SOW on Government Installations. 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. Government Furnished items will be further defined during New Material Introductory Briefings (NMIBs) and subsequent fielding meetings.

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. The Government will provide Government Furnished Equipment (GFE) including Test Measurement Diagnostic Equipment (TMDE), desks, chairs, office supplies, lighting, At-Platform Test Devices, and heavy lift equipment at sites in support of TPF.

C.5.3 CONTRACTOR FURNISHED ITEMS AND RESPONSIBILITIES

C.5.3.1 General

The Contractor shall provide qualified personnel and items not provided by the Government to perform TPF.

C.5.3.2 Materials and Information

The Contractor shall provide Government approved TSPs for each fielding site to support OPNET and FLMNET training. (CDRL C039, TSP).

5.3.3 Equipment

The Contractor shall provide inspection equipment, test equipment, tools, and 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. The Contractor shall provide all personnel and personal safety equipment required to accomplish all deprocessing and fielding missions. Any new material or equipment procured under the contract at the Governments expense will become Government property at the end of the contract.

C.5.3.4 Fault Inducement Kits for NET Training

Fault Inducement Kits (Reference C.2.3.3.11) shall be provided to each NET training team for use during Total Package Fielding (TPF).

C.5.4 TOTAL PACKAGE FIELDING TASKS

C.5.4.1 Telecommunications and Automation Support

The Contractor shall provide Telecommunications and Automation Support as described in the subparagraphs below.

C.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.

C.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 and 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

Name of Offeror or Contractor:

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 Government 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 or in vehicles, when identified by COR and or Fielding team

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.

(CDRL C076, DA Form 3161 Submittal)

(CDRL C077, TPF Database)

(CDRL A004, Funds and Man-hours Expenditure Report)

C.5.4.1.3 Post Fielding Status Report

The Contractor shall provide a Post Fielding Status Report to the COR, 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 CDRL C078, Post Fielding Status Report.

C.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 a supply activity identified by the Government. As the MRL document changes for each fielding during the performance of this effort, the Contractor shall update the MRL and resubmit a call forward for tools and ASL, as required to ensure packages are in agreement with the MRL. (reference CDRL C076, DA Form 3161 Submittal and CDRL C077, TPF Database)

C.5.4.2 Logistics Management**C.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.

C.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 CDRL A002, Minutes)

C.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.

C.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

Name of Offeror or Contractor:

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. (CDRL C079, Post Fielding TPF Documentation)

C.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. (CDRL C080, Weekly Fielding Reports)

C.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.

(CDRL C081, Joint Inventory Report)

(CDRL C082, After Action Report)

C.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 CDRL C083 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 and fieldings within 24 hours of discovery.

C.5.4.2.6 Documentation for Audit

The Contractor shall ensure that TPF documentation (reference CDRL C079, Post Fielding 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.

C.5.4.3 Deprocess and Fielding

The Contractor shall provide Deprocessing and Fielding and Post-Fielding Efforts to Support Mission Requirements and Readiness as described below.

C.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 Government fielding schedule (reference Attachment 0050). The Contractor shall 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.

C.5.4.3.1.1 Deprocessing Checklist

The Contractor shall update and provide the deprocessing checklist (Attachment 0034 Deprocessing Checklist) for each Mission Package Configuration to include kits 15 days after the first TPF option is exercised. The Contractor shall use the Government approved deprocessing checklists for all fielding. (CDRL C084, Deprocessing Checklist)

C.5.4.3.2 Reserved**C.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 and 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 by 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 CDRL C079 Post Fielding TPF Documentation). All Government-furnished property provided for short-term use shall be returned to the Government source of issue

Name of Offeror or Contractor:

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.

C.5.4.3.4 Contractor Performance at Fielding Site

The Contractor shall have the required personnel present at fielding sites based on the NMIB and 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 the required personnel based on the NMIB and 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, 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 CDRL C084, Deprocessing Checklist)
- g. Take appropriate action IAW the warranty provisions of the end item efforts and the appropriate Warranty Technical Bulletins. Deprocess, load software, and perform operational checks on the MSD/VADS with ICE and any future generations of this type of equipment.
- h. 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.
- i. Conduct a closeout briefing with the respective Force Modernization Office (FMO), Unit POC, and TACOM Logistics Assistance Office (LAO), if available.
- j. Install all kits identified and approved by COR.
(reference CDRL C084, Deprocessing Checklist)
(reference CDRL C079, Post Fielding TPF Documentation)

C.5.4.3.5 GFE and Legacy Vehicles

If authorized by the Government, the Contractor shall be responsible for the transfer of material, accountability, and installation of GFE kits removed from Government provided legacy vehicles.

C.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 CDRL C077, TPF Database)

C.5.4.3.7 Schedule and Component Changes

The Contractor shall make no changes to agreed upon deprocessing and hand-off schedules or changes to the components or items scheduled to be fielded to a unit, without the prior written approval of the COR.

C.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 CDRL C082, After Action Report). The AAR shall include pictures and 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.

C.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 obtaining a signed DA Form 3161 (Transfer) from the gaining units Property Book Officer.

C.5.4.3.10 Recovery of Radio Frequency Identification

The Contractor shall recover all Recovery of Radio 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 reprogramming and reutilization.

C.5.4.4 New Equipment Training

The Contractor shall provide New Equipment Training (NET) IAW the subparagraphs in this section.

Name of Offeror or Contractor:**C.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, 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 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 (CDRL C085, 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)). 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.

The contractor shall perform overall training requirements to include the following:

C.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.

C.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.

C.5.4.4.1.3 Welder and Machinist Training

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

C.5.4.4.2 Program Training Events

The Contractor shall conduct training to support the JLTV FoV per the NET plan (reference Attachment 0035). Training shall be based upon the task and learning requirements for the operator, maintainer and sustainer personnel.

C.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 JLTV FoV NET Location Plan (Attachment 0033, New Equipment Training).

C.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 CDRL C086, Training Program Management Plan

C.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. Additionally, the Training Manager shall be responsible for the Program Management, coordination, and implementation of the NET training.

C.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 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

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 81 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

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 CDRL C037, 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. (CDRL C087, Instructor Certification)

C.5.4.4.7 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 (Attachment 0049, Observation Checklist), and will notify the training manager of any discrepancies or recommendations.

C.5.4.4.8 Cleanup of Training Areas

The Contractor 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.

C.5.4.4.9 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. (CDRL C088, Training Support Package)

C.5.4.4.10 Training Materials Changes

The Contractor shall document training materials changes to be incorporated into the Training Support Packages (reference CDRL C088, 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 CDRL C043, Training Task Data). The Contractor shall provide the Government with Training Materials Change data for the course within ten (10) working days after completion of each training course. (CDRL C089, Training Materials Change Data)

C.5.4.4.11 Class Room 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 multi-media materials necessary to provide a complete course of instruction.

C.5.4.4.12 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.

C.5.4.4.13 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. (CDRL C090, Course Completion Certificate)

C.5.4.4.14 Class Demographic Data

Name of Offeror or Contractor:

The Contractor shall record and provide to the Government the class demographic data for each JLTVM 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. (CDRL C091, Course Completion Data)

C.5.4.4.15 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 course iteration using Attachment 0082 (After Instruction Report or an After Action Review.). Content of the AIR and AAR will be tailored to the specific course taught and submitted to the Government for review (reference CDRL C088, 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. (CDRL C092, After Instruction Report, After Action Report, and End of Course Survey)

C.5.4.4.16 Lesson Plans

The Contractor shall utilize the Government approved Lesson Plans (reference CDRL C045, Lesson Plans) in support of NET.

C.5.4.4.17 Instructors Guides

The Contractor shall utilize developed Instructors Guide (IG) (reference CDRL C046, 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.

C.5.4.4.18 Student Guides

The Contractor shall utilize Government approved Student Guide (reference CDRL C047, Student Guides).

C.5.4.4.19 Training Test Package

The Contractor shall utilize the Government approved Training Test Package (CDRL C048, Training Test Package) which shall include two written examination versions and one set of performance tests for the examination of an individual's knowledge, skills, abilities, and achievement of terminal and enabling learning objectives based upon the Learning Analysis Report (reference CDRL C044). 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 (3) test items for each learning objective. Written test shall contain no more than 50 questions and no less than 25 questions. The performance tests shall be developed to evaluate the students ability to perform specific operator or maintainer task 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.

C.5.4.4.20 Job Aids

The Contractor shall utilize the Government approved Job Aids (reference CDRL C049, Job Aids). Job Aids are considered a facet of the Training Support Package.

C.5.4.4.21 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.

C.5.4.4.22 Conduct of Trainers

New Equipment Training Team Instructors shall be helpful, timely, and professional in providing JLTVM 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.

C.5.4.4.23 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.

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN W56HZV-14-R-0039 MOD/AMD 0001	Page 83 of 111
---------------------------	--	-----------------------

Name of Offeror or Contractor:

C.5.4.4.24 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 (CDRL C085, 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.

C.5.5 PHYSICAL SECURITY PLAN

The Contractor shall establish, and implement, 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).

C.5.6 SAFETY PLAN

The Contractor shall comply with applicable Government health and safety regulations. The Contractor shall prepare, and maintain, a Safety Plan for the efficient, effective, and safe operation of the Contractor operated maintenance facilities.

*** END OF NARRATIVE C0001 ***

Name of Offeror or Contractor:

SECTION H - SPECIAL CONTRACT REQUIREMENTS

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 or the period of performance, under these options may continue beyond the eight years.
- b. All option CLINs may be exercised by the Government in one or more increments. All prices shall be determined by the option period in which the hardware or service is procured in accordance with Attachment 0060 Option Prices.
- c. The Government reserves the right to exercise options in accordance with the option period dates defined below:
1. Option Period One: Date of Contract award through 366 days after contract award
 2. Option Period Two: 367 days after contract award through 732 days after contract award
 3. Option Period Three: 733 days after contract award through 1098 days after contract award
 4. Option Period Four: 1099 days after contract award through 1464 days after contract award
 5. Option Period Five: 1465 days after contract award through 1831 days after contract award
 6. Option Period Six: 1832 days after contract award through 2197 days after contract award
 7. Option Period Seven: 2198 days after contract award through 2563 days after contract award
 8. Option Period Eight: 2564 days after contract award through 2929 days after contract award

H.1.2. Range Pricing, Initiating Orders, Top-Up Periods, and Top-Up Orders: This contract utilizes range pricing to determine unit prices for vehicles (H.1.3.1) and kits (H.1.3.3) as identified in Attachment 0060. Attachment 0060 identifies the unit price that will be paid when the quantity of hardware is procured within identified quantity ranges for the four seat configurations (GP, CCWC, HGC) and the two seat configuration (Utility). In the event that additional items are procured within a Top-Up Period, the cumulative total quantity of hardware procured on the initiating award and the subsequent awards within the top-up period will be used to determine the price range for the subsequently awarded hardware.

All exercised options to procure vehicles or kits under this contract are classified as either an initiating award or as a Top-Up Award. An Initiating Award is defined as either 1) the base award or 2) any exercised option to procure the same vehicle variant (i.e. four-seat or two-seat) or the same kit(s) that is not exercised during an applicable Top-Up Period. A Top-Up Period is defined as the date of an initiating award plus 60 calendar days. Exercised options which procure additional quantities of the same vehicle variants or the same kit(s) shall be referred to as Top-Up Awards. Top-Up Periods are independent of and may span across option periods.

For example, suppose an Initiating Award to procure 599 Silent Watch Energy Storage Kits is exercised on the last day of Option Period 2; the price for these 599 kits would come from Option Period 2, Range 2 unit prices. Suppose that on the following day (the first day of Option Period 3) the Government exercises an option to procure one Silent Watch Energy Storage Kit. The combined quantity of 600 Silent Watch Energy Storage Kits (599 from the Option Period 2 Initiating Award and 1 from the Option Period 3 Top-Up Award) results in Range 3 prices for the Top-Up Award. The unit price paid for the 1 unit procured during Option Period 3 is therefore priced at the Option Period 3, Range 3 unit price. There is not a backward adjustment for price paid for the Initiating Award of 599 units during Option Period 2.

Multiple Top-Up Awards may be placed during a 60-day Top-Up Period; however, a Top-Up Award does not extend a Top-Up Period. Initiating Awards and Top-Up Periods are unique to the vehicle variant or specific kit being procured, e.g. an Initiating Award for armor kits does not start a vehicle Top-Up Period.

H.1.3 Firm Fixed Price Options

H.1.3.1. Vehicles. By written notification to the Contractor, the Government reserves the right to unilaterally exercise options for up to 16,700 vehicles on a firm fixed price basis in any increment regardless of the JLTV mission package mix (GP, HGC, CCWC, UTL) and the option period which vehicles are ordered under this contract. Vehicle options will be exercised in accordance with the Attachment 0060. Option Prices will be based on the period that the option is exercised and not the period of delivery (e.g. if vehicle options are exercised in the Second Option period and delivered in the Third Option Period, the Government will use the Second Option Period prices).

H.1.3.1.1 The Government requires deliveries to begin no later than 10 months after exercise of an option(s) and end no later than 22

Name of Offeror or Contractor:

months after exercise of an option, unless mutually agreed upon by the parties.

H.1.3.2 Trailers. By written notification to the Contractor, the Government reserves the right to unilaterally exercise options for up to 32 JLTV Trailers on firm fixed price basis and in any increment regardless of the option period which trailers are ordered under this contract. Trailer options will be exercised in accordance with Attachment 0060. Option Prices will be based on the period that the option is exercised and not the period of delivery (e.g. if trailer options are exercised in the Second Option period and delivered in the Third Option Period, the Government will use the Second Option Period prices).

H.1.3.2.1 The Government requires deliveries to begin no later than six months after exercise of an option(s) and end no later than 18 months after exercise of an option, unless mutually agreed upon by the parties.

H.1.3.3 Packaged and Installed Kits. By written notification to the Contractor, the Government reserves the right to unilaterally exercise options for up to 164,590 packaged and installed kits on a firm fixed price basis and in any increment regardless of the kit quantity for packaged or installed kit configuration for each option period under this contract. Kit options will be exercised in accordance with Attachment 0060. Option Prices will be based on the period that the option is exercised and not the period of delivery (e.g. if kit options are exercised in the Second Option Period and delivered in the Third Option Period, the Government will use the Second Option Period prices).

H.1.3.3.1 The Government requires deliveries to begin no later than 10 months after exercising the option(s) and end no later than 22 months after exercise of an option, unless mutually agreed upon by the parties.

H.1.3.4 System Engineering/Program Management (SEPM). By written notification to the Contractor, the Government reserves the right to unilaterally exercise options for up to 115 Months of SEPM on a firm fixed price basis. SEPM options will be exercised in accordance with Attachment 0060. The option periods defined in Attachment 0060 indicate the option period when the applicable SEPM may be ordered. Performance of the applicable SEPM for that option period may continue into the following option period. SEPM options will be exercised in monthly increments following the six month period of performance in the base contract. For option periods 1 through 7, the Government may exercise up to 12 months of SEPM during each option period. All remaining option months may be exercised in option period eight.

The period of performance for the SEPM services shall not exceed 121 months after the date of award of this contract.

H.1.3.5 Storage and Maintenance of Vehicles. By written notification to the contractor, the Government reserves the right to unilaterally exercise options for up to 2,211,308 vehicle days of Storage and Maintenance for Vehicles on a firm fixed price basis regardless of the JLTV mission package mix (GP, HGC, CCWC, UTL) and the option period which storage and maintenance is ordered under this contract. Storage and Maintenance of Vehicles options will be exercised in accordance with Attachment 0060.

A vehicle day shall include any and all costs associated with labor, material and ODC required to perform all Storage and Maintenance of Vehicles for a single vehicle for a given day in accordance with the Section C Paragraphs set forth in Attachment 0060.

The period of performance for Care and Storage shall not exceed 121 months after the date of award of this contract.

H.1.3.6 Test Hardware. By written notification to the contractor, the Government reserves the right to unilaterally exercise options for up to 224 ea Test Hardware on a firm fixed price basis in any increments during Option Periods One through Three. The Government reserves the right to unilaterally exercise these options regardless of the Test Hardware mix quantity. Test Hardware options will be exercised in accordance with Attachment 0060.

H.1.3.6.1 The Government requires deliveries to begin no later than one month after exercising the option(s) and end no later than 18 months after award, unless mutually agreed upon by the parties.

H.1.3.7 Test Support. By written notification to the contractor, the Government reserves the right to unilaterally exercise options for up to 4 lots of Test Support on a firm fixed price basis. Test Support options may be exercised in increments of one lot per Option Period for each Option Periods One through Four. Test Support options will be exercised in accordance with Attachment 0060. The contractor shall provide Test Support in accordance with Attachments 0056 and 0060. Test Support lot options will be exercised in yearly increments.

The period of performance for Test Support shall not exceed 54 months after the date of award of this contract.

H.1.3.8 JLTV-FoV Refurbishment. By written notification to the contractor, the Government reserves the right to unilaterally exercise options for up to 100 JLTV-FoV Refurbishment on a firm fixed price basis in any increment during Option Periods One through Five. JLTV-FoV Refurbishment options will be exercised in accordance with Attachment 0060. The three Automatic Fire Extinguishing System (AFES) vehicles shall be delivered eight months after exercising the option at the contractors facilities. For the remaining 97 vehicle refurbished assets delivery shall be three months after exercising the option and delivery of the vehicles at the contractors facilities. Option Prices will be based on the period that the option is exercised and not the period of delivery (e.g. if a JLTV-FoV Refurbishment options are exercised in the Second Option period and with completion occurring in the Third Option Period, the Government will use the Second Option Period prices).

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 86 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001
Name of Offeror or Contractor:		

H.1.3.9 Technical Data Package (TDP). The Government reserves the right to exercise an option to purchase one TDP on a firm fixed price basis. The TDP option will be exercised in accordance with Attachment 0060.

H.1.3.9.1 The contractors identification and assertion of use, release, or disclosure of restrictions submitted in accordance with DFARS 252.227-7017 will be incorporated as an attachment prior to award.

H.1.3.9.2 The Government requires deliveries to begin no later than six months after exercising the option and end no later than 12 months after award, unless mutually agreed upon by the parties.

H 1.4 Cost Plus Fixed Fee Options

H.1.4.1 System Technical Support (STS). The Government reserves the right to exercise options for up to 2,400,000 man-hours of STS on a cost plus fixed fee basis. The individual work directive will define if it is CPFF term or completion effort. These 2,400,000 man-hours may be exercised in any increment regardless of the option period. STS Options will be exercised in accordance Attachment 0060. All STS efforts shall be performed in accordance with Work Directives issued by the PCO in accordance with Clause 52.242-4011 and Section C.3.1 of this contract. Option costs will be based on the period that the option is exercised and not the period of completion (e.g. if STS Work Directives are issued in the Second Option Period and completed in the Third Option Period, the Government will use the Second Option Period costs). All Other Direct Costs (ODCs) for STS shall be negotiated with each Work Directive. The Government will utilize the material handling rate in attachment 0060 for the option period in which the option is exercised.

The period of performance for STS shall not exceed 121 months after the date of award of this contract.

H.1.4.2 Interim Contractor Support (ICS). The Government reserves the right to exercise up to 700,000 man-hours of ICS on a cost plus fixed fee term basis in any increment regardless of CONUS or OCONUS place of performance, ICS may be exercised in any increments during Option Periods three through five. ICS Options will be exercised in accordance with Attachments 0050 and 0060. All Other Direct Costs (ODCs) for ICS shall be negotiated prior to negotiating each option in accordance with C.4.2. The Government will utilize the material handling rate in attachment 0060 for the option period in which the option is exercised.

The period of performance for ICS shall not exceed 75 months after the date of award of this contract.

H.1.4.3 Total Package Fielding (TPF). The Government reserves the right to exercise up to 830,000 man-hours of TPF on a cost plus fixed fee term basis in any increment regardless of, CONUS or OCONUS place of performance. TPF may be awarded in any increment during Option Periods three through eight. TPF Options will be exercised in accordance with Attachments 0050 and 0060. All Other Direct Costs (ODCs) for TPF shall be negotiated prior to negotiating each option in accordance with C.5.1.2. The Government will utilize the material handling rate in attachment 0060 for the option period in which the option is exercised.

The period of performance for TPF shall not exceed 121 months after the date of award of this contract.

H.2 Reinstatable Production Baseline Requirements

H.2.1 The PQT results will be utilized to establish a production baseline. In addition to the requirements set forth in Attachment 0001, all other threshold requirements set forth in Attachment 0087 will also be assessed during PQT. For those requirements set forth in Attachment 0087, the level of performance that is demonstrated at PQT will become part of the production baseline and added into Attachment 0001 via a contract modification at no additional cost to the government.

H.3 PROGRAM SECURITY AND PUBLIC RELEASE

H.3.1 Protection and Disclosure of JLTV program Information shall be in accordance with DFARS 252.204-7000.

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, Threat and Awareness Reporting Program, 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.

Name of Offeror or Contractor:

- 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 Economic Price Adjustment

H.5.1 The purpose of this clause is to provide economic price adjustments, upward or downward, for the JLTV program, for only the vehicle production CLINs ordered in Option Periods 6, 7, and 8. For Option Period 6, the applicable CLINs are 6101-6104 and 6201-6204. For Option Period 7, the applicable CLINs are 7101-7104 and 7201-7204. For Option Period 8, the applicable CLINs are 8101-8104. This clause applies to the aforementioned vehicle CLINs only; no adjustment will be applied to installed or packaged kits or any other hardware or services.

H.5.2 The contractor warrants that the prices set forth in this clause do not include allowances for any contingency to the extent covered by this clause.

H.5.3 Regardless of the actual cost during the performance of this contract, economic price adjustments shall be made only as provided herein.

H.5.4 Any such price adjustment shall be determined by completion of the EPA Tables located at the end of this provision and is applicable only to vehicles ordered within the future 12-month period. The adjustment period shall begin at the beginning of each option period. The contractor shall do the calculations required to complete the attached Tables for each applicable computation period shown in the Tables. The contractor shall complete a separate Table for each mission configuration package (GP, HGC, CCWC, and UTL) that has a unique Unit Price subject to Adjustment, and shall indicate in its calculations to which CLINs each table applies. Also, if the contract includes prices that vary by quantity ordered (range pricing), the contractor shall complete an EPA Table for each quantity/price.

Name of Offeror or Contractor:

The contractor shall submit the calculations to the Contracting Officer no later than thirty (30) days after the Bureau of Labor Statistics publishes the first available indexes (even if the publication labels the index value as preliminary) for the month that is three months prior to that shown in Column (1) of the applicable EPA Table. In all cases, not-seasonally-adjusted indexes shall be used in Column (4) of the Tables. A submittal is required even if no adjustment to the contract is deemed applicable. Submission of EPA Tables shall be at no additional cost to the Government.

Any Economic Price Adjustment will be incorporated by a contract modification, which shall include adjusted contract unit prices. If an agreement on adjustment cannot be reached prior to the first vehicle option ordered in Option Period 6,7, or 8, or within any extension granted by the Contracting Officer, the Contracting Officer may determine a reasonable adjustment in accordance with this provision, subject to contractor appeal as provided in the Disputes clause.

H.5.5 Any dispute arising under this provision shall be resolved in accordance with the Disputes clause of this contract.

H.5.6 A total of seventy percent (70%) of the original contract unit price shall be that portion of the Unit Price Subject to Adjustment, hereinafter referred to as the UPSA, for all adjustments herein. The original contract unit price is the unit price contained in the contract, for Option Period 6, 7, or 8, as applicable, at the date of the base award. The original contract unit price shall not be affected by any subsequent changes in price throughout the terms of the contract.

H.5.7 For computing adjustments under this clause, the price subject to adjustment shall be apportioned as shown in the Amount per Adjustment Period column (Column (2)) of the EPA Table.

H.5.8 Economic Price Adjustment Tables are contained in Attachment 0085: Column (1) is the applicable date for the start of each adjustment calculation period. Column (1) also lists the index to be used. Column (2) is the amount of contract unit price subject to adjustment within the adjustment period. Column (3) is the upper and lower index values of the non-adjustment band. Column (4) is the actual index value, which is to be the first available index value published for the month that is three months prior to the month shown in Column (1) (e.g., if the month in Column (1) is Jul 2020, use the actual index value for Apr 2020). The index value shall be used even if the Bureau of Labor Statistics labels it as preliminary. Columns (4), (5), (6), and (7) are completed at the time of each adjustment calculation.

H.5.9 Economic price adjustments to the contract price shall be made as follows for each CLIN subject to adjustment, based on the applicable initial published index:

H.5.9.1 When the actual index value (Column (4)) is within the non-adjustment band (Column (3)), no adjustment will be made.

H.5.9.2 When the actual index value in Column (4) is greater than the upper projected index value in Column (3), the difference (plus) will be entered in Column (5). When the actual index value in Column (4) is less than the lower projected index value in Column (3), the difference (minus) will be entered in Column (5).

H.5.9.3 The differences, whether plus or minus, shall be divided by the projected index value in Column (3) used to calculate the difference. The resulting percentage change shall be set forth in Column (6). That percentage shall be carried to two (2) decimal places.

H.5.9.4 The amounts in the projected Economic Price Adjustment profile set forth in Column (2) of the Economic Price Adjustment Table will be multiplied by the percentage change (plus or minus) in Column (6). The resulting amount shall be set forth in Column (7). The resulting amount shall be rounded to the nearest dollar.

H.5.9.5 The amount in Column (7) shall be the adjustment to contract unit price for the applicable CLIN.

H.5.10 Under this clause, the maximum increase to any particular vehicle unit price shall be 10% of the original contract unit price (as of the date of base contract award) for that vehicle. There shall be no limitation on the amount of decrease under this clause.

H.5.11 In the event any index cited is discontinued or substantially altered by the Bureau of Labor Statistics, the parties shall mutually agree on an appropriate substitute index to be effective as of the date of index discontinuance or alteration.

In the event an index is discontinued or substantially altered, the contractor shall notify the Contracting Officer in writing within 60 days of discontinuance or alteration. Upon such notification from the contractor, the parties will proceed to mutually establish a replacement index. If mutual agreement cannot be reached prior to the date the contractor is required to submit the applicable Economic Price Adjustment Tables, the Contracting Officer may make a unilateral index replacement. Alternatively, the parties may continue to mutually proceed to establish a replacement index. In this case, the Government may exercise options using the original contract unit price (as a billing price), pending agreement on a replacement index needed to calculate the price adjustment.

H.5.12 The contractor shall certify on a final adjusting invoice that the amounts invoiced under this contract reflect all decreases required by this clause.

H.5.13 ADJUSTMENTS PURSUANT TO THE CHANGES PROVISION Pricing actions pursuant to the Changes clause or other provisions within this

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 89 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

contract will be priced as though there were no provision for Economic Price Adjustment.

H.5.14 INDEX AND PERCENTAGE OF UPSA The Bureau of Labor Statistics data to use, and the percentage of UPSA, shall be as follows:

Index	Unit Price Subject to Adjustment (UPSA)
PPI Code 1412, Motor Vehicles Parts	70%

H.5.15 EXAMPLES Attachment 0085 includes three (3) examples for Option Period 6, CLIN 6101, using Economic Price Adjustment Table 1, in which the actual index value exceeds the projected index value range (Example A), falls within the range (Example B), and is less than the range (Example C).

For each example, assume the CLIN 6101 original contract unit price is \$250,000.

H.5.16 ECONOMIC PRICE ADJUSTMENT TABLES Attachment 0085 includes the tables shall be used for vehicle quantities in Option Periods 6, 7, and 8, for all mission configuration packages.

H.5.17 In the event the contract is modified to incorporate multi-year contract pricing all Economic Price Adjustment provisions will be removed from the contract.

H.6 Alternate Financing Arrangements

H.6.1 Proposal and award will be based on the use of customary progress payments, in accordance with Office of the Under Secretary of Defense for Acquisition, Technology and Logistics memorandum dated April 27 2011, Subject Cash Flow Tool for Evaluating Alternative Financing Arrangements . Pursuant to the memo, after contract award, the contractor may propose alternative financing arrangements, such as performance based payments schedule, to the Contracting Officer for consideration. If a proposed performance based payment schedule is desired by the contractor, the proposed performance based schedule should be submitted which includes all performance based payment events, completion criteria, and event values along with the contractors expected expenditure profile, and any consideration being offered by the contractor for a more favorable payment structure.

H.7 Advance Change Adjustment Agreements for Engineering Change Proposals

H.7.1 Purpose and Terms. This clause establishes the procedures by which the parties agree to incorporate engineering change proposals (ECPs) under this contract without an equitable adjustment to the contract price. This clause only applies to Configuration Control Board (CCB) approved Engineering Changes (exclusive of VECs) applicable to supplies to be delivered under this contract. The parties agree that each change that reflects a net total for an increase or decrease of \$50,000.00 or less shall be a change having no effect on the contract price. The net total is in relation to the total amount of vehicles and kits (on contract and including unexercised options) affected by the ECP.

H.7.2 Procedure. When it is proposed to make a change under the Changes clause and both parties agree that such a change shall require no equitable adjustment as contemplated by paragraph (a) of this clause, the Contractor shall submit a written proposal or offer to accomplish the proposed change without an equitable adjustment. If the Contracting Officer determines no adjustment is necessary, the Contractor's proposal may be accepted by issuing a unilateral modification using an SF Form 30, Amendment of Solicitation/Modification of Contract. The modification shall (1) be issued under the Changes clause; (2) cite this clause; (3) reference the Contractor's proposal or offer; and (4) direct the changes to be made. The issuance of the modification shall constitute acceptance of the Contractor's proposal or offer, shall be binding on both parties, and shall be a full, complete and final settlement for the directed changes.

*** END OF NARRATIVE H0001 ***

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 90 of 111**

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD 0001

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>
Attachment 0001	PURCHASE DESCRIPTION (FOUO)	05-JAN-2015	001	MAIL
Attachment 0018	HAZARD TRACKING LOG	18-DEC-2014	005	EMAIL
Attachment 0035	NET PLAN	22-DEC-2014	011	EMAIL
Attachment 0050	FIELDING LOCATION AND SCHEDULE (FOUO)	23-DEC-2014	006	EMAIL
Attachment 0054	JLTV FDSC (FOUO)	07-AUG-2012	022	EMAIL
Attachment 0055	JLTV OMSMP (FOUO)	12-JAN-2014	014	EMAIL
Attachment 0056	VEASAM (FOUO)	22-DEC-2014	004	EMAIL
Attachment 0060	OPTION PRICING ATTACHMENT (FOUO)	05-JAN-2015	020	EMAIL
Attachment 0066	RAM DATA SHEET	23-DEC-2014	002	EMAIL
Attachment 0068	CREW SEATING DATA SHEET (FOUO)	23-DEC-2014	007	EMAIL
Attachment 0070	PRICING MATRIX (FOUO)	06-JAN-2015	037	EMAIL
Attachment 0078	OBJECTIVE ADJUSTMENT SCALES (FOUO)	04-NOV-2014	003	EMAIL
Attachment 0084	JLTV LRIP AND FRP VEHICLE KIT MATRIX (FOUO)	22-DEC-2014	019	EMAIL

Name of Offeror or Contractor:

SECTION L - INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS

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. However, in accordance with M.4.1.1, the Government reserves the right to utilize data not provided in the Offerors proposal to supplement the substantiating data provided in the Offerors proposal.

L.2 Proposal Content, Format, and Instructions

L.2.1 Proposal Content

The Offeror's proposal shall be submitted in five 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: Small Business Participation Factor. Submit three identical sets of CD-ROMs or DVDs.

(d) Volume 4: Proposal Terms and Conditions Volume. Submit three identical sets of CD-ROMs or DVDs.

(e) Volume 5: 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 8 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 the Warren Electronic Contracting Clause (52.204-4016).

L.2.5 Unclassified Proposal Submission Address

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 92 of 111**

PIIN/SIIN W56HZV-14-R-0039

MOD/AMD 0001

Name of Offeror or Contractor:

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), Block 9
TO BE DELIVERED UNOPENED (Offerors name)

Exterior envelopes must identify the solicitation number, as well as the time and date specified for receipt of proposals in block nine of the Standard Form (SF) 33.

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 and time stamped by the time and date specified for receipt of proposals in block nine of the Standard Form (SF) 33, 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. 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.

*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 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 from Detroit Arsenal security prior to the closing date and time for receipt of proposals.

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 and ensure proposals reach the intended destination.

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 time and date specified for receipt of proposals in block nine of the Standard Form (SF) 33, 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:

Outer Envelope:

PEO Combat Support & Combat Services Support
SFAE-CSS-JL/MS 640
6501 E. Eleven Mile Road
Warren, MI 48397-5000

Inner Envelope:

SFAE-CSS-JL/MS640
Source Selection Board
Attn: Security Manager (Gioacchino (Jack) Ciraulo)
6501 E. Eleven Mile Road
Warren, MI 48397-5000

Solicitation Number: W56HZV-14-R-0039
DATE & Time: Refer to Standard Form 33 (Pg. 1), Block 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.

Name of Offeror or Contractor:

This RFP includes two classified annexes - Annexes E and F. Offerors must have a copy of Annexes E and F in order to meaningfully respond to the solicitation (Reference M.2.a. In order to receive a copy of Annexes E and F, 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 the 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 Annexes shall be received within 10 calendar days of RFP release. Requests received greater than 10 calendar days after the RFP release date may not be processed with enough time for the Offeror to submit a proposal which meaningfully responds to the RFP. The Offeror shall 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 OSD Access to Proposal Information & Marking of Proposals

Offerors are advised that information submitted as part of its proposal 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. Information contained within an Offerors proposal shall be marked in a manner which allows this information to be shared with OSD, DA, and DON. An example of such as marking is as follows:

This proposal includes data that shall not be disclosed outside the Government and shall not be duplicated, used, or disclosed -- in whole or in part -- for any purpose other than to evaluate this proposal or support the JLTV Milestone C approval decision. If, however, a contract is awarded to this offeror as a result of -- or in connection with -- the submission of this data, the Government shall have the right to duplicate, use, or disclose the data to the extent provided in the resulting contract. This restriction does not limit the Governments right to use information contained in this data if it is obtained from another source without restriction. The data subject to this restriction are contained in sheets [insert numbers or other identification of sheets].

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. The Government may conduct a crosswalk between the information provided in Offerors proposal volumes to assess whether the Offeror submits consistent proposal information.

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 five 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 Small Business Participation (L.4.3);
- (d) Volume 4: Proposal Terms and Conditions (L.4.4);
- (e) Volume 5: Classified Information (L.4.5);

L.4.1 Volume 1: Factor 1- Primary Technical

Attachment 0061 (Primary Technical Performance Requirements List) identifies the Threshold Purchase Description (PD) requirements from Attachment 0001 which will 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). The Offerors proposal shall consider the performance of the JLTV PoV, IAW PD definitions and requirements, including definitions PDFOV-875 and PDFOV-942.

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. The Offeror may include text, photos, illustrations, and model/drawing extracts. The description shall include subsystems and components. The description shall identify the differences between the JLTV base vehicle platforms. It is recommended that the

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 94 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

system description be presented in no more than 75 total pages.

L.4.1.1.2 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.4.1.1.3 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. Also, for each test event identified as substantiating data on Attachment 0062, 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 (As-Tested Spec Sheet).

L.4.1.1.4 Substantiating Data

The Offeror shall provide data to substantiate, in the format defined in Attachment 0062 (Primary Technical Requirements Worksheet), the performance of the proposed design for each requirement in Attachment 0061 (Primary Technical Requirements List). Substantiating Data shall 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/or rationale. Substantiating data shall be complete, specific, and relevant only to the specific performance levels proposed to be achieved by the Offeror for each requirement. 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).

Offerors are required to submit the information and supporting data required for the other factors (Total Evaluated Cost/Price, and Small Business Participation) by separate stand alone submission in each of the appropriate volumes.

L.4.1.1.5 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 Offerors Proposed Contract Cost/Price, Life Cycle Cost Adjustment inputs, Technical Data Package Adjustment inputs, Tier 1 Objective Requirements Adjustment inputs, and Secondary Technical Adjustment inputs.

In accordance with FAR 15.306, the Government reserves the right to request additional or more detailed information to support its evaluation of the TEC/P Factor in addition to the information requested in L.4.2.

L.4.2.1 Offerors Proposed Contract Cost/Price

The Offerors Proposed 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 Contract Cost/Price (not including any cost realism adjustment) is automatically calculated by the Excel formulas in the attachment. The workbook 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 mitigate the risk of exchange rate fluctuation for this prospective contract.

Name of Offeror or Contractor:

b. Submission of Offeror-constructed Excel spreadsheets providing cost element breakdowns supporting proposed prices, as set forth in L.4.2.1.2 through L.4.2.1.4.9 below. The Offeror must also provide associated rationale required by L.4.2.1.1 through L.4.2.1.4.9.

L.4.2.1.1 Attachment 0070

The Offeror shall fill in the Government-provided Excel spreadsheet found in Attachment 0070. Attachment 0070 shall contain all of the Offerors prices as indicated in the attachment. The Offeror shall not enter any proposed prices in Section B. 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 the base award or at the time of the option award. 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 vehicles and the applicable kits identified in Attachment 0070 for option periods 1-8, using the format in Attachment 0070. The Offeror may enter the same or different unit prices for all ranges in each Ordering Period.

L.4.2.1.2 Table of Contents

The Offeror and each Major Subcontractor as defined in L.4.2.1.4.2 shall provide a Table of Contents showing each file submitted as part of the Offerors Proposed Cost/Price 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

When supporting narratives are required as indicated below, including Basis of Estimate (BOE) sheets, they shall be submitted 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

The Offeror shall 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 for each Major CLIN as identified on the Contract Cost Price Summary worksheet within Attachment 0070 for each contract period (i.e., a separate top-level spreadsheet for the Base Award and each of the eight option periods). 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 Government 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.

In addition to the above information, for Cost Reimbursement CLINs, the offeror shall provide BOEs that include the following:

- (d) A narrative description of the tasks to be performed, and the calculations showing the computation of the respective direct labor hours proposed for each specific task.
- (e) A narrative description of the method used to estimate the hours, identifying assumptions used and cost estimating relationships.

L.4.2.1.4.2 Major Subcontracts for Select Service CLINs.

If there are major non-hardware subcontractors (those with a total labor cost expected to be greater than 50% of the ICS, STS, or TPF efforts of the contract), provide pricing information from the subcontractor equivalent to that required in Section L.4.2.1 of the prime Offeror.

(a) Include the analysis 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 offeror can demonstrate the subcontract item is either based on adequate price competition or is commercial, cost information from the subcontractor is not required. However, copies of competitive subcontractor price quotes, or the kind of information in FAR 52.215-20(a)(1)(ii) must be provided.

(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

Name of Offeror or Contractor:

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.4.2.1.4.2 shall be provided for inter-organizational transfers, regardless of dollar value, except the Offeror need not provide its analysis of the submission. Inter-organizational transfer includes transfers between divisions, subdivisions, subsidiaries, or affiliates of the Offeror under a common control.

L.4.2.1.4.4 Material Cost

For all components, 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, or any other information necessary to substantiate the proposal.

The Offeror shall provide a complete 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

L.4.2.1.4.5 Other Direct Costs

Depending on the Offerors accounting system, Other Direct Costs may include costs such as computing charges, shipping, or other types of direct costs. The Offeror shall 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, 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 (e.g. number of labor hours, labor costs), and the calculation showing how the CER factor was derived. In addition, the Offeror shall 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

The Offeror shall 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 by the Offeror to develop its proposal. These rates shall be consistent with the Offerors accounting system. Identify the proposal allocation base and calculation. The Offeror shall identify the impact the award of this contract will have on its business volume, including the effects upon the rate pools and bases. The Offeror shall 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.
- (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

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 97 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

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.4.2.1.4.10 Cost Decrements

In the event the proposed pricing reflects any form of cost decrement, to include cost discounting, expected negotiation decreases, corporate investment or management challenges, the Offeror shall identify such decrements in the proposal. Where cost decrements are proposed, identify the nature, amount and basis for the decrement, and any accounting treatment implications. Also, the Offeror shall provide supporting data to substantiate how the decrement will be achieved. In the event of corporate investment or management challenges that may result in the contract being performed at a loss, provide corporate level substantiating information which both recognizes the potential for performance at a loss and supports the ability of the offeror to finance contract performance in a loss position.

L.4.2.1.5 DCAA and DCMA Contact Information

The Offeror and each Major Subcontractor as defined in L.4.2.1.4.2 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) and Attachment 0080 (Idle Fuel Efficiency Input) in Microsoft Excel 2007 format.

L.4.2.2.1 Attachment 0071 - LCC Adjustment Calculator

The Offeror shall enter its proposed inputs for Operating Fuel Efficiency (PDFOV-3388), Idle Fuel Consumption Rate (PDFOV-8192), Mean Mile Between Hardware Mission Failure (PDFOV-2909), Average Unit Manufacturing Cost (AUMC), Average Contractor Furnished Equipment (CFE) Kit price per vehicle, and Average Armor Kit price per vehicle. 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.4.2.2.2 Attachment 0080 - Idle Fuel Efficiency Input

The Offeror shall enter its proposed Idle Fuel Consumption Rate (PDFOV-8193).

L.4.2.3 Technical Data Package (TDP) Adjustment

It is the Governments 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 JLTV FoV and all its components. The Offeror shall identify a proposed option 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 JLTV FoV.

L.4.2.3.1 Attachment 0072 - TDP Proposal

The Offeror shall complete Attachment 0072 (TDP Proposal) for its proposed JLTV FoV Government Technical Data Package and submit it in Microsoft Excel 2007 format as described in Sections L.4.2.3.1.1 and L.4.2.3.1.2 below. 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 JLTV Configuration, Trailer, and CFE Kits.

L.4.2.3.1.1 Part 1 - TDP Bill of Material (BOM)

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 98 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

For Part 1 of 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.

(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, and 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 (e.g. 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 with data rights or software rights owned by, or a component which was designed exclusively by, the offeror at its own expense (including its parent, affiliate, or subsidiary companies) 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 identifies the offeror (including its parent, affiliate, or subsidiary companies) as the sole approved source of supply and provides the JLTV form, fit, function, interface, and minimum performance requirements. The Offeror shall provide unlimited rights for this type of drawing.

(iii) SOURCE CONTROLLED - COMMERCIAL 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 identifies the commercial manufacturer (not the JLTV OEM) as the sole approved source of supply and the JLTV form, fit, function, interface, and minimum performance requirements. The Offeror shall provide unlimited rights for this type of drawing.

(e) IDENTIFIED SOURCE(S) FOR SOURCE CONTROL COMPONENTS: 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 COMPONENTS: 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.4.2.3.1.2 Part 2 - A Listing of Assertion of Restrictions for Items Included in the TDP Option

For Part 2 of each tab, the Offeror shall assert any restrictions on the Government's rights to use, release, or disclose each unique part identified on Part 1 of Attachment 0072 after the option is exercised.

For each item identified as a Competitive Rights Component in Part 1 of Attachment 0072, the Offeror shall specify the government will be given either Government Purpose Rights or Unlimited Rights upon exercise of the option. This information shall be identified within the Asserted Rights column of Part 2.

For each item identified as a Source Controlled OEM Component or Source Controlled - Commercial Component in Part 1 of Attachment 0072, the Offeror shall specify the government will be given either Limited Rights to the component with Unlimited Rights to the JLTV source controlled drawing, or Restricted Rights to the component with Unlimited Rights to the JLTV source controlled drawing upon exercise of the option. This information shall be identified within the Asserted Rights column of Part 2.

For each item identified as a having restricted or limited rights in Part 2, the Offeror shall specify the Basis for Assertion. Generally, development at private expense, either exclusively or partially, is the only basis for asserting restrictions. For technical data, other than computer software documentation, development refers to development of the item, component, or process to which the data pertain. The Government's rights in computer software documentation generally may not be restricted. For computer software, development refers to the software. Indicate whether development was accomplished exclusively or partially at private expense. If development was not accomplished at private expense, or for computer software documentation, enter the specific basis for asserting

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 99 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

restrictions.

Part 2 of Attachment 0072 shall be dated and signed by an official authorized to contractually obligate the Offeror

Part 2 of Attachment 0072 will not be evaluated in Source Selection; however it will be incorporated as an attachment in Section J of the resulting contract. If the TDP Option is exercised, the information provided in Part 2 of Attachment 0072 will replace the Assertion of Restrictions submitted in response to L.4.6.4 and DFARS 252.227-7017.

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 Governments 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.4.2.5 Secondary Technical Adjustment

The Offeror shall identify, in Attachment 0074 (Requirements Compliance Matrix), whether the Offerors JLTV is compliant or non-compliant to each requirement listed in the Compliance Matrix tab. The Offeror shall submit its proposed Attachment 0074 (Requirements Compliance Matrix) in Microsoft Excel 2007 format. The Offeror must propose to be compliant to requirements PDFOV-3511, PDFOV-8194, PDFOV-7640, PDFOV-7643, PDFOV-2579, PDFOV-2581, PDFOV-1224, PDFOV-2653, PDFOV-1003, PDFOV-3328, PDFOV-6548, PDFOV-1355, PDFOV-7714, PDFOV-1719, PDE-21. Other than filling in the identified input variables, the Offeror shall not adjust, edit, or change Attachment 0074 in any way.

L.4.3 Volume 3: Factor 3 - Small Business Participation

The Small Business Participation Factor Volume is comprised of a single volume. Offerors are responsible for including sufficient detail to permit a complete evaluation.

L.4.3.1 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.4.3.2 Definitions

(a) Affiliate is defined in 13 CFR 121.103.

(b) Alaskan Native Corporation is defined in FAR 19.701 as 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).

(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

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 100 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

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).

L.4.3.3 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 0076) 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 Office Excel 2007 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.

L.4.3.4 Additional Information

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.4.3.5 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 small business subcontractor.

L.4.3.6. 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.4.3.7 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.

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 101 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

(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.4.3.8 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 ALT II, Small Business Subcontracting Plan and DFARS Clause 252.219-7003 (or DFARS Clause 252.219-7004 if the Offeror has a comprehensive subcontracting plan) 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.4.4 Volume 4: Proposal Terms and Conditions

The offeror shall submit the following information for the proposal terms and conditions volume of its proposal:

L.4.4.1 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 L with all completed fill-ins, and data required by clauses and provisions incorporated by reference; including all signed copies of Amendments to the solicitation.

L.4.4.2 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

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 102 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

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.4.4.3 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.4.4.4 Cost Accounting System

In order to be considered for award as part of the responsibility determination, 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 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.4.4.5 Pricing Assumptions

For evaluation purposes, offerors shall prepare proposals assuming that the only JLTV quantities Offerors will receive shall be for the quantity set forth in this RFP. Offerors shall make a clear statement in their Proposal Terms and Conditions Volume that the proposal is based on only the quantities set forth in this RFP.

L.4.5 Volume 5: Classified Information

The offeror shall submit all classified information associated with its proposal in Volume 5 in accordance with Section L.2.7 above. For all classified information submitted within Volume 5, the offeror shall clearly identify which proposal volume (1-4) with which it is associated.

*** END OF NARRATIVE L0001 ***

Name of Offeror or Contractor:

SECTION M - EVALUATION FACTORS FOR AWARD

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 choose not to award a contract where it concludes that no proposal exists with a reasonable probability of complying with contract terms and conditions. The Government will select for award the proposal which represents the best value to the Government as described below.

There are three 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 Small Business Participation (M.4.3);

Relative Order of Importance: Primary Technical is more important than TEC/P. TEC/P is significantly 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.1.2 Reserved

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 as defined in Clause 52.215-1 and paragraph M.4.2.2.3.2.

(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 Offeror proposes exceptions to the attachments, exhibits, enclosures, or other RFP terms and conditions.

(f) The Offeror proposes performance below threshold performance for any Primary Technical Performance Requirements identified in Attachment 0061.

(g) The Offeror's proposal contains any inconsistencies between proposal volumes.

(h) The Offeror fails to obtain the appropriate export compliance documentation as required by M.1.3.

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 104 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

(i) The proposal reflects Unsubstantiated Technical Commitments as defined in M.4.1.5 or an inherent lack of technical competence which suggests the Offeror has a failure to comprehend the complexity and risks required to perform the RFP requirements or proposed technical performance that is unobtainable.

(j) The Offeror proposes to be non-compliant in its Secondary Technical Adjustment proposal (Attachment 0074) to any of the following requirements: PDFOV-3511, PDFOV-8194, PDFOV-7640, PDFOV-7643, PDFOV-2579, PDFOV-2581, PDFOV-1224, PDFOV-2653, PDFOV-1003, PDFOV-3328, PDFOV-6548, PDFOV-1355, PDFOV-7714, PDFOV-1719, PDE-21.

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.1.1, 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 will be considered, as specified below, in addition to the other evaluation methods described below, 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.

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 four 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 will be considered for award if unaffordable. Affordability will be calculated by Attachment 0070 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 either of the 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

Proposed prices which result in exceeding any of the Then-Year Dollars (TY\$) 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 (BY11\$) 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, subassemblies, and major assemblies and subsystems needed for the final system. The manufacturing cost also includes recurring costs of subcontractors and purchased parts and 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.

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 105 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

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. As a part of this determination, the Contracting Officer may utilize the Offeror's proposed prices, as well as other information, to determine if the prospective contractor has adequate financial resources to perform the contract. 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 (See L.4.5.3)

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 assess whether 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 in the Primary Technical, or Small Business Participation Factors.

M.4 Evaluation Factors

There are three 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 Small Business Participation (M.4.3);

M.4.1 Primary Technical Factor

The Primary Technical Factor will assess the proposal risk that the Offerors JLTV will achieve the Governments defined 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,

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 106 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

including definitions PDFOV-875 and PDFOV-942.

Government test data which establishes conformance to the proposed design configuration represents the most credible form of substantiating data. Therefore, 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 relevance of the test data as substantiating information. Substantiating data other than government test data will be considered less credible.

Since the Government will only assess risk under the Primary Technical Factor, the Government will not identify "strengths" and "weaknesses" when evaluating proposals, however the Government is committed to engaging in meaningful discussions with offerors and will apprise offerors of areas where their proposal demonstrates deficiencies or appreciable increased risk associated with meeting the technical requirements, in order to be consistent with FAR 15.306(d)(3).

M.4.1.1 System Description, 3D CAD Model, Specification Sheets, Substantiating Data, and Vehicle Configuration Tracking

The Government will review the proposal data and information required in Section L under the Primary Technical Factor to conduct its Primary Technical evaluation of the Offerors proposal. The Government reserves the right to utilize Government Test Data not provided in the Offerors proposal in addition to the substantiating data provided in the Offerors proposal in the evaluation of the offerors primary technical factor. 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. The system description is one of the pieces of information that may be used to assess consistency per M.3.7.

M.4.1.2 Exceeding Threshold Performance

Offerors proposing performance beyond the Government defined threshold performance levels identified in Attachment 0061 (Primary Technical Performance Requirements List) that is supported by credible substantiating data may be assessed at a reduced 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 Secondary Technical Requirements In Primary Technical Risk Evaluation

While risk will not be assessed or evaluated within the Secondary Technical Adjustment, the Offeror's proposed PD performance under the Secondary Technical Adjustment may be considered in the risk assessment under the Primary Technical Factor evaluation as described in M.4.2.6.

M.4.1.5 Unsubstantiated Technical Commitments

Proposed performance in the Primary Technical Factor, including proposed performance above the threshold requirement, which is not supported by credible substantiating data may be assessed as an Unsubstantiated Technical Commitment and the Offerors proposal may be rejected in accordance with Section M.2(i).

M.4.2 Total Evaluated Cost/Price (TEC/P) Factor

The Government will evaluate Offerors for award by summing the Evaluated Contract Cost/Price to the Government as detailed in Sections M.4.2.2 through M.4.2.6 below. The TEC/P is equal to the Offerors Evaluated Contract Cost/Price as defined by Section M.4.2.2 modified by the Life Cycle Cost Adjustment, Technical Data Package Adjustment, Tier 1 Objective Requirements Adjustment, and Secondary Technical Adjustment.

TEC/P = Evaluated Contract Cost/Price (M.4.2.2) - LCC Adjustment (M.4.2.3) - TDP Adjustment (M.4.2.4) - Tier 1 Objective Requirement Adjustment (M.4.2.5) - Secondary Technical Adjustment (M.4.2.6).

The Total Evaluated Cost/Price may differ from an Offerors Proposed Contract Cost/Price. The Total Evaluated Cost/Price, rather than the Offerors Proposed Contract Cost/Price, will be used in the trade-off evaluation to determine best value.

M.4.2.1 Reserved

M.4.2.2 Evaluated Contract Cost/Price

Name of Offeror or Contractor:

The Contract Cost/Price evaluation will consider the information submitted in response to Section L.4.2.1 including the top-level spreadsheets. The evaluation of the Offerors Proposed Contract Cost/Price will include consideration of the reasonableness of the proposed Firm Fixed Priced and Cost Reimbursement CLINs, and the realism of the Cost Reimbursement CLINs. For Cost Reimbursement CLINs, the Cost Realism assessment will be used to determine the most probable cost to the Government.

The Evaluated Contract Cost/Price will consist of the Contract Cost/Price per M.4.2.2.3 and include any cost realism adjustments (per M.4.2.2.2). This amount will then be converted from Then-Year Dollars (TY\$) to Base-Year FY2011 Dollars (BY11\$) in accordance with M.4.2.2.5. The resulting amount in BY11\$ is the Evaluated Contract Cost/Price to be used for calculating TEC/P.

M.4.2.2.1 Cost/Price Reasonableness

The Government shall evaluate whether or not the Offerors proposed costs and prices are reasonable in accordance with the definition in FAR 15.404-1 and 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 estimates to determine whether the estimated proposed cost elements are realistic for the work to be performed; reflect a clear understanding of the requirements; and are consistent with the unique methods of performance and materials described in the Offerors technical proposal. In the event the Offeror proposes any cost decrements as described in L.4.2.1.4.10, the Government may consider the realism of such decrements in its assessment.

The result of the realism evaluation for the Cost Reimbursement CLINs will be a determination of the most probable cost to the Government (which consists of cost and fee) for performance by 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 Contract Cost/Price

The Contract Cost/Price will consist of the sum of the evaluated prices for each sub-CLIN found in Attachment 0070. The Cost Reimbursement CLINs are subject to a cost realism adjustment in accordance with M.4.2.2.2 for evaluation purposes.

M.4.2.2.3.1 Weighted Average Unit Price

For CLINs with range pricing, the Government will calculate a weighted average unit price for each CLIN by first multiplying the unit prices proposed for each quantity range by the weighting percentages as stated in Attachment 0070. Weighted average unit prices will be the summation of the proposed unit prices for each range multiplied by the 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 as stated in Attachment 0070.

M.4.2.2.3.2 Unbalanced Pricing

Offerors should note that pricing will be carefully reviewed to detect proposals that are unbalanced in accordance with Clause 52.215-1(f)(8) as well as between quantity ranges (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) and option periods. Unbalanced offers may be determined unacceptable. See FAR 15.404-1(g) for more information on unbalanced offers.

M.4.2.2.4 Evaluated TDP Prices

If the Offeror elects to propose a TDP in response to L.4.2.3 it shall propose a price for each option period. The Offeror may propose a different TDP price for each option period in TY\$. The evaluated TDP price included in the Evaluated Contract Cost/Price will equal the highest proposed BY11 price per the calculation in Attachment 0070.

M.4.2.2.5 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 Contract 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.4.2.2.6 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 Offerors Proposed Cost/Price.

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 108 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

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 cost avoidance based on the degree to which the Offerors proposed design reduces the Governments Operations and Sustainment costs for consumable and repairable 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 Evaluated Contract Cost/Price as part of the TEC/P calculation to credit the Offeror for potential future savings the Government may realize due to decreased Operations and Support costs.

Proposed LCC inputs in Attachment 0071 and Attachment 0080 will not be evaluated for risk under the LCC Adjustment evaluation. However, for the selected Offeror, the levels of performance proposed by the Offeror in Attachment 0080 will be incorporated into the contractually binding Purchase Description as the threshold requirement.

M.4.2.4 Technical Data Package (TDP) Adjustment

The TDP Adjustment will evaluate information submitted in response to Section L.4.2.3.1 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 Evaluated Contract Cost/Price as part of the TEC/P calculation to credit the Offeror for future savings the Government may realize during future competitions through use of a competitive TDP.

The information submitted in response to Section L.4.2.3.1.2 (Attachment 0072 Part 2) will not be evaluated as part of the TDP Adjustment; however it will be incorporated as an attachment in Section J of the resulting contract. If the TDP Option is exercised, the information provided in Part 2 of Attachment 0072 will be added to the Assertion of Restrictions submitted in response to L.4.6.4 and DFARS 252.227-7017.

M.4.2.4.1 Technical Data Package (TDP) Adjustment Formula

The TDP Adjustment will be calculated in accordance with one of the two scenarios described below. In both scenarios the Offerors Highest Proposed TDP Price is defined in M.4.2.2.4. The TDP Adjustment will be in BY11\$.

Scenario One: If 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.

Scenario Two: If the Offerors Highest Proposed TDP Price is less than \$511,000,000 (BY11\$), the TDP Adjustment will equal $X + ((Z - X) * Y)$ where:

- X = Offerors Highest Proposed TDP Price
- Y = Competitive Utility Multiplier (See M.4.2.4.1.3)
- Z = Government Baseline Savings (see M.4.2.4.1.2)

NOTE: The effective TDP Adjustment Formula for Scenario Two = $(Z - X) * Y$. The equation shown above removes the evaluated TDP price from the Contract Cost/Price before applying the TDP Adjustment.

M.4.2.4.1.1 Proposed TDP Price

The Offerors proposed TDP price will be evaluated as part of the Evaluated Contract Cost/Price calculated under M.4.2.2. The TDP adjustment conducted in accordance with M.4.2.4 will not be considered in the Evaluated Contract Cost/Price calculated under M.4.2.2. However, the Offerors proposed TDP price (BY11\$) is subtracted from the Total Evaluated Cost/Price as part of the TEC/P equation described in M.4.2.

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 baseline savings is calculated as a five percent savings on the Governments anticipated 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 Part 1 (TDP BOM). The Government will not perform a risk assessment as part of the Competitive Utility Multiplier evaluation. The evaluation will take into account the quantity of components which the Offeror identifies as OEM Source Controlled, the specific 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 due to the additional reverse engineering and/or qualification testing necessary to attain secondary sources to support competition, which results in degraded competitive utility. 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 significantly degraded to no competitive utility due to any of the following criteria:

- * The Offeror declines to propose a TDP.
- * The proposed TDP features significant quantities of OEM Source Controlled components which would require significant reverse engineering and/or qualification testing for secondary sources to permit future competition.
- * The proposed TDP features significant quantities of key vehicle components as OEM Source Controlled which would require significant reverse engineering and/or qualification testing for secondary sources to permit future competition.

(b) 0.33 Multiplier: Represents a proposed TDP that has moderately degraded competitive utility due to any of the following criteria:

- * The proposed TDP features moderate quantities of OEM Source Controlled components which would require moderate reverse engineering and/or qualification testing for secondary sources to permit future competition when purchased.
- * The proposed TDP features moderate quantities of key vehicle components as OEM Source Controlled which would require moderate reverse engineering and/or qualification testing for secondary sources to permit future competition when purchased.

(c) 0.67 Multiplier: Represents a proposed TDP that has slightly degraded competitive utility due to any of the following criteria:

- * The proposed TDP features limited quantities of OEM Source Controlled components which would require limited reverse engineering and/or qualification testing for secondary sources to permit future competition when purchased.
- * The proposed TDP features limited quantities of key vehicle components as OEM Source Controlled which would require limited reverse engineering and/or qualification testing for secondary sources to permit future competition when purchased.

(d) 1.00 Multiplier: Represents a proposed TDP that has full competitive utility due to the following criteria:

- * The proposed TDP features no OEM Source Controlled components, which as a result would not require any reverse engineering and/or qualification testing for secondary sources, and thus would immediately permit future competition when purchased.

M.4.2.4.2 Declining to Propose Data Rights

An Offeror 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, to assess the value of the increased capability associated with the Offerors proposed performance above threshold levels identified in Attachment 0078 (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 Evaluated Contract Cost/Price as part of the TEC/P calculation 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 (Tier 1 Objective Requirements Adjustment Scales). For the four survivability objectives identified in Attachment, 0078, (Tier 1 Objective Requirements Adjustment Scales) 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.

For the selected Offeror, the levels of performance proposed by the Offeror will be incorporated into the contractually binding Purchase Description as threshold requirements.

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 110 of 111
	PIIN/SIIN W56HZV-14-R-0039	MOD/AMD 0001

Name of Offeror or Contractor:

M.4.2.6 Secondary Technical Adjustment

The Secondary Technical Adjustment will, in the form of a TEC/P adjustment, assess the value of the proposed vehicle compliance with JLTV requirements contained within Tiers 2-5 of the PD. The Secondary Technical Adjustment will be calculated by Attachment 0074 (Requirements Compliance Matrix) based on the number of points accumulated for the PD requirements the Offeror proposes compliances to. Points will be awarded for each compliance claimed by the Offeror in Attachment 0074 based on the relative priority of the requirement Tier. The Offeror will only receive points for full compliance to the requirement; no points will be assigned for partial compliance. The point values 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;

Attachment 0074 will calculate a TEC/P adjustment based on the total number of points accumulated for the proposed requirement compliances in comparison to the Government's target point value as identified in Attachment 0074. Attachment 0074 will calculate the total number of points by adding together all points accumulated for the Offerors requirements compliances. Point totals above the Government target are considered more advantageous to the Government and will result in a downward adjustment to the Offerors TEC/P calculation as calculated in Attachment 0074. Point totals below the Government target are considered less advantageous to the Government and will result in an upward adjustment to the Offerors TEC/P calculation as calculated in Attachment 0074. Point totals equal to the Government target will result in a \$0 adjustment to the Offerors TEC/P calculation.

Proposed performance will not be evaluated for risk under the Secondary Technical Adjustment. However, for the selected Offeror, each compliance the Offeror identifies in Attachment 0074 (Requirements Compliance Matrix) will be incorporated into the contractually binding Purchase Description as Threshold requirements.

While risk will not be assessed or evaluated for Secondary Technical Adjustment requirements, proposed performance under the Secondary Technical Adjustment may influence the risk of performance under the Primary Technical Factor.

Each threshold non-compliance identified by the Offeror in Attachment 0074 will be incorporated into Attachment 0087 upon contract award. In accordance with H.2, PQT results will be utilized to establish a production baseline. For those requirements incorporated into Attachment 0087, the level of performance that is demonstrated at PQT will become part of the production baseline and added into Attachment 0001 via a contract modification at no additional cost to the government.

The Offeror must propose to be compliant to requirements PDFOV-3511, PDFOV-8194, PDFOV-7640, PDFOV-7643, PDFOV-2579, PDFOV-2581, PDFOV-1224, PDFOV-2653, PDFOV-1003, PDFOV-3328, PDFOV-6548, PDFOV-1355, PDFOV-7714, PDFOV-1719, PDE-21.

M.4.3 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.4.3.1 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.4.3.1 Small Business Participation Evaluation

The evaluation will consist of the following based on the Offerors proposed Small Business Participation Workbook (Attachment 0076) and any other information submitted in response to L.4.3:

(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 base award and all of the 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)

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN W56HZV-14-R-0039 MOD/AMD 0001	Page 111 of 111
---------------------------	---	-------------------------------

Name of Offeror or Contractor:

(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 Offeror's proposed goal and not the Government's goals listed above for this Request for Proposal. If the Offeror is awarded the contract, the Offeror's proposed goals will be incorporated into the contract and will be the goals against which performance will be measured.

(c) If the awardee is an other than a small business:

(1) the proposed dollar values identified for the Small Business Participation Proposal goals will be assessed for consistency with the proposed dollar values identified for the Small Business Subcontracting Plan goals.

(2) 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 ***