

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT1. Contract ID Code
Cost Plus Fixed Fee

Page 1 Of 16

2. Amendment/Modification No.

0001

3. Effective Date

2014FEB25

4. Requisition/Purchase Req No.

SEE SCHEDULE

5. Project No. (If applicable)

6. Issued By

U.S. ARMY CONTRACTING COMMAND
JOSEPH BADALAMENTI
WARREN, MICHIGAN 48397-5000
HTTP://CONTRACTING.TACOM.ARMY.MIL

Code

W56HZV

7. Administered By (If other than Item 6)

Code

EMAIL: JOSEPH.BADALAMENTI@US.ARMY.MIL

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

9A. Amendment Of Solicitation No.

W56HZV-14-R-0034

9B. Dated (See Item 11)

2014FEB20

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/Offeror

15C. Date Signed

16B. United States Of America

16C. Date Signed

(Signature of person authorized to sign)

By _____
(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: JOSEPH BADALAMENTI
Buyer Office Symbol/Telephone Number: CCTA-HTB-A/(586)282-5678
Type of Contract: Cost Plus Fixed Fee
Kind of Contract: Service Contracts

*** End of Narrative A000 ***

Solicitation W56HZV-14-R-0034, Amendment 0001

The purpose of this Amendment 0001 is to make the following changes to the solicitation:

1. Section B

- a) CLIN 0002AA, Narrative B001, to change the level of effort hours from 53,114 hours to 26,557 hours.

2. Section C

- a) Revise Section C.2.1, o. through x, Applicable Documents

FROM:

- o. MIL-STD 40051-2, Department of Defense Standard Practice: Preparation of Digital Technical Information for Page-Based Technical Manuals, change 3
- p. MIL-STD 40051-1, Department of Defense Standard Practice: Preparation of Digital Technical Information for Page-Based Technical Manuals, change 3
- q. MIL-STD-1388-2A, DOD Requirements for a Logistic Support Analysis Record
- r. MIL-STD-1388-2B, DOD Requirements for a Logistic Support Analysis Record
- s. MIL-STD-973, Configuration Management, April 17, 1992
- t. MIL-HDBK-61A, Military Handbook: Configuration Management Guidance
- u. Policies and Procedures, Configuration and Data Management Policy Library
- v. Requirements for Developing and Maintaining Quality Assurance Provisions (QAPs)
- w. Society of Automotive Engineers (SAE) International, Recommended Failure Modes and Effects Analysis (FMEA) Practices for Non-Automobile Applications
- x. Standard Operating Procedure (SOP) for ACE ECP Submissions

TO:

- o. MIL-STD 40051-2B, Department of Defense Standard Practice: Preparation of Digital Technical Information for Page-Based Technical Manuals
- p. MIL-STD 40051-1B, Department of Defense Standard Practice: Preparation of Digital Technical Information for Interactive Electronic Technical Manuals
- q. GEIA-STD-0007, DOD Requirements for a Logistic Support Analysis Record
- r. GEIA-STD-0007, DOD Requirements for a Logistic Support Analysis Record
- s. MIL-STD-2073-1, "Standard Practice for Military Packaging", January 7, 2011
- t. MIL-STD-973, Configuration Management, April 17, 1992
- u. MIL-HDBK-61A, Military Handbook: Configuration Management Guidance

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Name of Offeror or Contractor:

v. Policies and Procedures, Configuration and Data Management Policy Library

w. Requirements for Developing and Maintaining Quality Assurance Provisions (QAPs)

x. Society of Automotive Engineers (SAE) International, Recommended Failure Modes and Effects Analysis (FMEA) Practices for Non-Automobile Applications

y. Standard Operating Procedure (SOP) for ACE ECP Submissions

b) Revise Section C.3.1.4, Travel, spell out Work Directive prior to the acronym WD.

c) Revise Section C.3.1.4.3, Travel

FROM:

Contractor shall ensure prior to travel that sufficient funds are available on the travel CLIN to complete the travel by contacting the COR.

TO

Contractor shall ensure prior to travel that sufficient funds are available.

d) Revise Section C.3.1.4.5, Travel, adding to the end of this paragraph, "Pre-approval from the COR is required when JTR rates are not available."

e) Delete verbiage from C.3.1.4.6 that read "Contractor shall not be reimbursed for local travel in and around the Contractor's place of performance (within a 50 mile radius)."

f) Revise Section C.3.1.7, Start of Work Meeting, the last sentence

FROM:

The Contractor shall prepare a Start of Work Meeting agenda and take minutes of the meeting in accordance with Contract Data Requirements List (CDRL) A002, Start of Work Meeting Agenda and Minutes."

TO:

The Contractor shall prepare meeting agenda and take minutes of the meeting in accordance with Contract Data Requirements List (CDRL) A002, "Meeting Agenda and Minutes."

g) Insert Section C.3.7.1 for Monthly Program Status Reviews

Section C.3.7.1 Monthly Program Status Reviews. The Contractor shall conduct Program Status Review meetings with the COR and Functional Technical Representatives (FTRs) on a monthly basis unless otherwise directed by the COR. The purpose of the meetings shall be to review status and progress of all projects. As a minimum, the contractor shall identify project numbers and titles, start of work date for each project, original and current scheduled completion date, rationale for change in project completion date, contractor's efforts during reporting period and other information deemed essential. Meeting location, time and attendance shall be coordinated with the COR. The Contractor shall prepare a Meeting agenda and take minutes of the meeting in accordance with Contract Data Requirements List (CDRL) A002, Meeting Agenda and Minutes.

h) Revise Section C.3.1.10, Contractor Quality Control

FROM:

The Contractor shall implement and maintain an effective Quality Control Program (QCP) to ensure services are performed in accordance with this PWS. The QCP will contain procedures to be implemented to identify, prevent, and correct unsatisfactory performance. The QCP represents the guidelines for meeting the requirements of this PWS. At a minimum, the Contractor shall develop quality control procedures that address the area identified in the Performance Requirements Summary (Attachment 0004) of the Contract. The Contractor shall prepare and submit the QCP in accordance with CDRL A001, Quality Control Plan in Section J under Exhibit A (Contract Data Requirements List). The Contracting Officer will notify the Contractor of acceptance or required modifications of the QCP no later than 30 days after receipt of the QCP. After acceptance of the QCP, the Contractor shall provide any proposed changes to the COR and obtain written acceptance from the Contracting Officer before implementing any proposed change to the QCP.

TO:

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The Contractor shall implement and adhere to a Quality Control Program (QCP) acceptable to the Government (e.g., ISO/TS 16949, ISO 9001:2008, or any other industry-recognized and accepted quality model). The contractor's Quality Control Program shall ensure product quality throughout all contract requirements, to include management, design, fabrication, testing, processing, shipping, storage and site installation. The Government reserves the right to perform all required audits and surveillance inspections to assure contractor compliance with contract requirements. The Contractor shall prepare and submit the QCP in accordance with CDRL A001, Quality Control Plan.

i) Revise Section 3.2.1.6.1, Quality Engineering, correct CDRL A005 title from "Electronic Change Proposal" to "Engineering Change Proposal".

j) Revise Section 3.2.1.6.2, Quality Engineering, correct CDRL A005 title from "Electronic Change Proposal" to "Engineering Change Proposal."

k) Revise Section C.3.2.2, Task Area 2, Logistic Services, correct the title from "Task Area 2, Logistic Services" to "Task Area 2, Logistics Services."

3. CDRL Changes

a.) CDRL A001, Quality Control Plan - revised number 4 Authority block to "DID FPRI-005-11" and deleted "ISO 10005" and Block 16 Remarks, added the words "and PD LTV Quality Specialist" to Block 12.

b.) CDRL A005, Engineering Change Proposal (ECP) - revise Block 16 Remarks (see CDRL A005).

c.) CDRL A016, Maintenance Allocation Chart (MAC) Updates; CDRL A017, Preventative Maintenance Checks and Services (PMCS) Updates; CDRL A019, Supplemental Provisioning Technical Documentation - revise Section 16 Remarks to include the words "or Acrobat PDF format" under Block 14.

d.) CDRL A024, Engineering Release Record (ERR) - revise Section 9 "Dist. Statement" to include the words "See Block 16," revise verbiage in Block 16 "Remarks" and add the word "Workflow" to the "Distribution" Block 14 (see CDRL A024).

e.) CDRL A025, Products Drawings, Models and Associated Lists - revised "App Code" Block 8 and "Dist Statement" Block 9 to include the words "See Block 16," and revise the verbiage in Block 16 Remarks (see CDRL A025).

4. Attachment 0001, Nondisclosure of Sensitive and/or Proprietary Data: High Mobility Multipurpose Wheeled Vehicle - System Technical Support.

a.) Global: all references of the words "task order" will be replaced with the words "Contract and Work Directives." See specific "Task Order" verbiage deletions in Attachment 0001.

*** END OF NARRATIVE A0003 ***

CONTINUATION SHEET

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS				
0002	UNEXERCISED OPTION CLIN				
0002AA	<p><u>UNEXERCISED OPTION CLIN</u></p> <p>Option 1 STS Services.</p> <p>Option Effort: May include up to 26,557 Level of Effort (LOE) Hours.</p> <p>The period of performance is from date of award through 730 days.</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p>	1	LO		\$ _____

Name of Offeror or Contractor:

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

PERFORMANCE WORK STATEMENT (PWS)

C.1 SCOPE. This Performance Work Statement (PWS) provides Systems Technical Support (STS) services for all High Mobility Multipurpose Wheeled Vehicle (HMMWV) Family of Vehicles (FOV) variants. These services consist of tasks and efforts in the disciplines of Engineering, Logistics, Quality Assurance, and Configuration Management. Work Directives (WDs) will be issued to designate specific Contractor services to be executed throughout the contracts performance period. STS services as defined in this PWS include all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, and other items necessary to perform to the standards in this contract, except for those items specified as Government furnished property and services. The total length of the contract is two years (one base period of twelve months and one twelve month option period).

C.2 APPLICABLE DOCUMENTS

C.2.1 The following documents will be applicable only to the extent required within the scope of this contract:

- a. Army Regulation (AR) 25-2 , Information Assurance, October 24, 2007
- b. AR 380-67, Personnel Security Program", January 24, 2014
- c. AR 750-1, Army Materiel Maintenance Policy, September 12, 2013
- d. Army Technical Purchase Description (ATPD) 2099
- e. American Society of Mechanical Engineers (ASME) Y14.100, Engineering Drawing Practices
- f. American Standard Code for Information Interchange (ASCII)
- g. Assembly drawing 12342929
- h. Department of Defense (DoD) Standards of Conduct 5500.7, November 29, 2007
- i. TACOM Pamphlet DRSTA-RP-702-155, Preparation and Maintenance of Quality Assurance Provisions (QAPs), February 1984
- j. Government Electronics & Information Technology Assoc. (GEIA)-649-B, Configuration Management Standard
- k. GEIA-HB-649, "Implementation Guide for CM
- l. GEIA-859-A, Data Management
- m. Joint Travel Regulations
- n. Military Standard (MIL-STD) 882D, Standard Practice for System Safety, February 10, 2000
- o. MIL-STD 40051-2B, Department of Defense Standard Practice: Preparation of Digital Technical Information for Page-Based Technical Manuals
- p. MIL-STD 40051-1B, Department of Defense Standard Practice: Preparation of Digital Technical Information for Interactive Electronic Technical Manuals
- q. GEIA-STD-0007, DOD Requirements for a Logistic Support Analysis Record
- r. GEIA-STD-0007, DOD Requirements for a Logistic Support Analysis Record
- s. MIL-STD-2073-1, "Standard Practice for Military Packaging", January 7, 2011
- t. MIL-STD-973, Configuration Management, April 17, 1992
- u. MIL-HDBK-61A, Military Handbook: Configuration Management Guidance
- v. Policies and Procedures, Configuration and Data Management Policy Library
- w. Requirements for Developing and Maintaining Quality Assurance Provisions (QAPs)

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x. Society of Automotive Engineers (SAE) International, Recommended Failure Modes and Effects Analysis (FMEA) Practices for Non-Automobile Applications

y. Standard Operating Procedure (SOP) for ACE ECP Submissions

C.2.2 The Contractor may contact the Contracting Officer or the Contracting Officer Representative (COR) for assistance with obtaining any of the applicable documents.

C.3 REQUIREMENTS**C.3.1 General Requirements**

C.3.1.1 Place of performance. Contract execution will take place at the Contractors facility. The Contractor shall at all times maintain an adequate work force for the uninterrupted performance of all tasks defined within this PWS. When hiring personnel, stability and continuity of the workforce is essential.

C.3.1.2 Overtime. The Contractor shall not bill and the Government will not pay the Contractor for any lunch periods, overtime, vacation, or holiday hours. Any requests for overtime must be approved by the designated COR prior to working overtime. Overtime for this PWS is defined as working more than 40 hours during a week at a Continental United States (CONUS) location.

C.3.1.3 Avoidance of Organizational Conflict of Interest. The Contractor shall comply with the rules pertaining to ORGANIZATIONAL CONFLICT OF INTEREST (OCI), as defined in subpart 2.1 of the Federal Acquisition Regulation (FAR), and detailed in subpart 9.5 of FAR.

C.3.1.4 Travel. The contractor shall provide, as specified by a signed Work Directive (WD), on-call and on-site engineering support on an as required basis to technically conduct or support systems analysis, engineering, tests and evaluation, simulation, manufacturing (pre through post-production) integration, technical meetings, and design or field review of part, assembly, end item identified with deficient or defective items. This includes technical expertise so that influence is directed toward achieving systems operation and maintenance, safety, human factors engineering, product assurance, manufacturing science and technology (MS&T), and value engineering requirements.

C.3.1.4.1 Contractor personnel will be required to travel in order to perform the services in this contract. Contractor shall ensure that travel will be taken in accordance with the Joint Travel Regulations (JTR). Contractor must obtain written authorization prior to travel from the COR and/or incorporated into the contract via modification and approved WD supplements.

C.3.1.4.2 Authorized travel will be payable as a direct cost and the Contractor shall include any vouchers for reimbursement of travel with the monthly invoice and obtain approval from the COR prior to payment.

C.3.1.4.3 Contractor shall ensure prior to travel that sufficient funds are available.

C.3.1.4.4 Contractor shall ensure that any air travel is accomplished on regularly scheduled commercial flights in the most economical manner consistent with the successful accomplishment of the mission.

C.3.1.4.5 Contractor shall ensure that the cost of lodging and incidental expenses are reasonable and allowable to the extent that costs submitted for reimbursement do not exceed the rates and amounts allowed by the JTR for civilian employees of the United States Government. Pre-approval from the COR is required when JTR rates are not available.

C.3.1.4.6 The Contractor shall arrange all passport and visa processing, facility clearances, identification badges, and security clearances for Contractor personnel.

C.3.1.5 Security and Information Assurance Requirements. Contractor shall ensure that all necessary personnel performing work specifically under this contract shall have a security clearance level of Secret and maintain the level of security required for the life of the contract. The security requirements must be in accordance with the attached DD254. Contractor shall ensure that its personnel is prepared to complete and forward their employee investigation, SF 85P Questionnaire for Public Trust Positions and Finger Print Card, (available on the Internet) to Defense Industrial Security Clearance Office (DISCO), 2870 Airport Drive, Suite 400, Columbus, OH 43219-2268. Foreign nationals will not be granted authorization.

C.3.1.5.1 Contractor shall ensure that personnel assigned to perform services under this contract that do not already have a valid clearance undergo a favorable background investigation. Contractor shall ensure that, each employee, once issued a clearance, maintains that clearance during the period of performance on this contract in order to access Government databases and installations, in accordance with Army Regulation 25-2 (AR 25-2), Information Assurance and Army Regulation 380-67 (AR 380-67), Personnel Security Program.

C.3.1.5.2 According to Army Regulation 25-2 (AR 25-2), Information Assurance Section 4-14 a(4), a Contractor requiring access to a Government database would be designated as IT-III, defined as "Personnel with roles, responsibilities, and access authorization of

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normal users with non-privileged level access to the Information System (IS) or device."

C.3.1.5.2.1 Personnel designated as an IT-III require:

a. A favorable review of local personnel, base and military, medical, and other security records, as appropriate.

b. Initiation of a National Agency Check with Credit Check and Written Inquiries (NACIC) (for civilians) or National Agency Check (NAC) (for military and contractors), as appropriate, and favorable review of SF 85P and Supplemental Questionnaire. (Locally, a NACI is required.)

C.3.1.5.2.2 Additionally, Section 3-3 c(2) of AR 25-2, Information Assurance, requires the Contractor and contracting personnel performing services under this contract to complete initial and/or annual Information Assurance Training (takes about 1 hour) that can be found at this link: <https://ia.signal.army.mil/DoDIAA/default.asp>.

C.3.1.5.2.3 If the Contractor already has a background investigation completed, it can be verified by the Governments Military Intelligence and Security (G2) using Joint Personnel Adjudication System (JPAS). If the Contractor does not have a background investigation completed, the process depicted in Attachment 0002, Contractor CAC and/or IT-III Process to obtain a National Agency Check with Inquiries (NACI) will be followed.

C.3.1.5.3 Necessary Contractor personnel, that will be working on this contract specifically that must have CAC access, shall be entered into Defense Enrollment Eligibility Reporting System (DEERS) through the Contractor Verification System (CVS) to obtain a Government Common Access Card (CAC).

C.3.1.6 Contracting Officer Representative (COR). In accordance with Department of Defense Federal Acquisition Regulation Supplement (DFARS) subsection 201.602-2, a certified COR will be appointed by the Contracting Officer to perform delegated technical functions inherent to the administration of this contract. The Contractor will receive a copy of the COR appointment letter after contract award that will specify the extent of the CORs authority to act on behalf of the contracting officer. 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. The COR may visit the Contractors facility to observe how cost and schedule information is generated. The COR will have access to pertinent records and data that support the cost and schedule data reported.

C.3.1.7 Start of Work Meeting. The Contractor shall, within fifteen (15) days of contract award, attend a Start of Work Meeting at a location at or near TACOM in Warren, MI. The meeting will last no more than one, eight-hour day. Attendees representing the Government will attend the meeting. The Contractor shall ensure that its key personnel, including subcontractors, shall attend the Start of Work Meeting. The Contractor shall prepare a meeting agenda and take minutes of the meeting in accordance with Contract Data Requirements List (CDRL) A002, Meeting Agenda and Minutes.

C.3.1.7.1 Monthly Program Status Reviews. The Contractor shall conduct Program Status Review meetings with the COR and Functional Technical Representatives (FTRs) on a monthly basis unless otherwise directed by the COR. The purpose of the meetings shall be to review status and progress of all projects. As a minimum, the contractor shall identify project numbers and titles, start of work date for each project, original and current scheduled completion date, rationale for change in project completion date, contractor's efforts during reporting period and other information deemed essential. Meeting location, time and attendance shall be coordinated with the COR. The Contractor shall prepare a Meeting agenda and take minutes of the meeting in accordance with Contract Data Requirements List (CDRL) A002, Meeting Agenda and Minutes.

C.3.1.8 Contractor Conduct. The Government reserves the right to cause the Contractor to remove any individual from an assignment under this contract for reasons of incompetence, intoxication, controlled substance abuse, misconduct, security issues, or violation of the Department of Defense Standards of Conduct 5500.7.

C.3.1.9 Contract Execution Reporting. The Contractor shall prepare and submit a Monthly Cost and Performance Report in accordance with CDRL A003 Monthly Cost and Performance Report.

C.3.1.10 Contractor Quality Control Program. The Contractor shall implement and adhere to a Quality Control Program (QCP) acceptable to the Government (e.g., ISO/TS 16949, ISO 9001:2008, or any other industry-recognized and accepted quality model). The contractor's Quality Control Program shall ensure product quality throughout all contract requirements, to include management, design, fabrication, testing, processing, shipping, storage and site installation. The Government reserves the right to perform all required audits and surveillance inspections to assure contractor compliance with contract requirements. The Contractor shall prepare and submit the QCP in accordance with CDRL A001, Quality Control Plan.

C.3.1.11 Non-Disclosure of Sensitive or Proprietary Data

C.3.1.11.1 The Contractor shall ensure that, before performing work on this contract, all Contractor personnel performing work sign the Non-Disclosure of Sensitive and/or Proprietary Data: High Mobility Multipurpose Wheeled Vehicles Systems Technical Support (Attachment 0001), to be legally bound and prohibited from disclosing unauthorized information. The Contractor shall retain originals of all signed Non-Disclosure Agreements at the Contractors facility and shall electronically submit copies to the COR prior to commencing work.

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C.3.1.11.2 The Contractor shall use and examine all information provided by the Government to it, exclusively in the performance of this contract and to take the necessary steps in accordance with Government regulations to prevent disclosure of such information to any party outside the Government or Government-designated support contractors possessing appropriate proprietary agreements.

C.3.1.11.3 The Contractor shall indoctrinate its personnel who have access to sensitive information concerning the relationship under which the Contractor has possession of or access to the information. Contractor shall ensure that its personnel does not engage in any other action, venture, or employment wherein sensitive information will be used for the profit of any party other than those furnishing the information.

C.3.1.11.4 The Contractor shall restrict access to sensitive and proprietary information to the minimum number of employees necessary for contract performance.

C.3.2 Specific Tasks

C.3.2.1 Task Area 1 Engineering Services

C.3.2.1.1 System Engineering. The Contractor shall evaluate system engineering issues, conduct studies, and make recommendations in regard to design problems, design improvements, and scientific and engineering investigations as well as field problems. Studies and recommendations will be made without system design degradation and maintain compatibility of physical, functional and technical interface with the established system design and definition as defined in Army Technical Purchase Description (ATPD) 2099, unless otherwise approved by the Government. Supporting rationale for engineering analyses, studies, reports, and recommendations will be submitted in accordance with CDRL A004 Engineering Technical Report.

C.3.2.1.1.1 The Contractor shall perform root cause failure analysis for Government-identified items and studies to correct potential or known deficiencies and make recommendations for product improvement and cost reductions while maintaining current contract item data serviceability and intended use. Logistic considerations will be made in regard to maintainability or supportability in performance of these efforts. Supporting rationale for analyses, studies, and recommendations will be submitted in accordance with CDRL A004 Engineering Technical Report.

C.3.2.1.1.2 Relative to engineering efforts, the Contractor shall prepare technical reports, cost estimates, layouts, sketches, drawings, Computer Aided Design (CAD) models, schematics, charts, visual depictions (i.e. photographs or videos), purchase descriptions, and Engineering Change Proposals (ECPs) in the presentation of test results or vehicle or component conditions subject to modification, analysis and design optimization. If an ECP is recommended, the recommendation will address Integrated Logistics Support (ILS) implications (e.g., provisioning, packaging, technical manuals, TMDE, tooling, and training), Quality (e.g., test, inspection and acceptance), safety, human factors, and any impact on cost or weight arising from the proposed change. If contemplating an ECP, supporting rationale that discusses the vehicle cost or weight modification will be provided in accordance with CDRL A004, Engineering Technical Report. The proposed change will be submitted for ECP approval in accordance with CDRL A005, Engineering Change Proposal only if the Government concurs to the vehicle cost and/ or weight modification.

C.3.2.1.1.3 The Contractor shall conduct trial component part(s) installation and testing on contract items and modified contract items. Testing will be conducted in relation to processes and methods used in work evaluation. For items undergoing such testing, the Contractor shall provide the parts (modified parts), material and supplies required to conduct engineering and logistical evaluations, maintenance, and rebuild and restoration of these parts. Supporting rationale for component part installation and testing will be submitted in accordance with CDRL A004, Engineering Technical Report.

C.3.2.1.1.4 With Government approval, the Contractor shall modify existing engineering and test attributes of the HMMWV and fabricate prototypes, components, subsystems, and mock-ups of the modified vehicle.

C.3.2.1.2 Product Data Engineering. The Contractor shall conduct technical services and perform systems analysis relative to engineering, test and evaluation, simulation, manufacturing integration, part design, part standardization, and field review, manufacturing and assembly, as well as end item deficient and defective attributes. The technical expertise exhibited in performing the aforementioned services will address safety, human n engineering, product assurance, value engineering, manufacturing science and technology (MS&T) as well as operation and maintenance requirements.

C.3.2.1.3 Environmental Engineering. The Contractor shall analyze and review vehicular and component modifications and ECPs and identify alternatives to hazardous and environmentally unfriendly substances that consist of mercury, cadmium, hexavalent chromium, Class I & II Ozone Depleting Substances, asbestos, and radioactive materials. Identification and recommendation for alternate material usage will be made in writing in accordance with CDRL A004, Engineering Technical Report. Within 5 days of completed analysis, the Contractor shall certify that activities under this contract are in compliance with federal, state, and local environmental laws.

C.3.2.1.4 Transportability Assessment. For vehicle or component modifications that affect the items transportability by altering characteristics such as weight, dimensions, lifting and tie down provisions, interface with required transportation assets and infrastructure, and structural integrity, the Contractor shall prepare a Transportability Report in Accordance with CDRL A006, Transportability Report.

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C.3.2.1.4.1 The Contractor will test and report on transportability design modifications in accordance with CDRL A007, Scientific Test Report.

C.3.2.1.5 Critical Safety Item Review. The Contractor shall identify and report on Critical Safety Items (CSIs) in accordance with CDRL A008, Critical Item Safety Report. A CSI is defined as a part, assembly, installation, or production system with one or more essential characteristics (to include nuclear hardening) that, if not conforming to the design data or quality requirements, would result in an unsafe condition that could cause loss or serious damage to the end item or major components, loss of control of the vehicle, or serious injury to personnel. Malfunction or failure of a CSI may be the result of a nonconforming, degraded, or missing critical safety characteristic such as tolerance, finish, material or assembly, manufacturing or inspection process (to include nuclear hardening), operation, field maintenance, or depot overhaul requirement.

C.3.2.1.5.1 The Contractor shall utilize the following data sources in CSI identification:

- a. Society of Automotive Engineers (SAE) Internationals Recommended Failure Modes and Effects Analysis (FMEA) Practices for Non-Automobile Applications
- b. MIL-STD-882D, Standard Practice for System Safety
- c. Results obtained from development testing and operational testing
- d. Results obtained from component qualification testing
- e. Results obtained from Reliability and Maintenance (RAM) Engineering assessments
- f. Historical knowledge of similar designs and items
- g. Information obtained from Logistics Management Data

C.3.2.1.5.2 The Contractor shall identify Government approved CSI modifications on part drawing and assembly drawing 12342929, as well as in all associated Quality Assurance documentation, e.g., Quality Assurance Requirements and Quality Assurance Provisions (QAR/QAP). Critical safety characteristics will require 100% inspection per the QAR or QAP. The specific method for marking drawings will be in accordance with American Society of Mechanical Engineers (ASME) Y14.100 Engineering Drawing Practices, with related Y14-series standards.

C.3.2.1.5.2.1 The Contractor shall maintain and update the CSI list drawing 12342929 throughout the life of the contract. The CSIs will also be referenced on the vehicle class and division drawing. This list will be dynamic in nature with changes taking place through the ECP and Engineering Release Record (ERR) process as experience and knowledge is obtained and design changes incorporated.

C.3.2.1.5.3 The Contractor shall validate updates pertaining to CSIs to ensure that all critical safety aspects of the modified design are accurately reflected, parts and materials operate well below fatigue limits and stress levels, and the design allows for assessment by inspection and non destructive inspection equipment. Contractor shall validate updates based on engineering analysis of the critical safety item characteristics and should consider changes and deterioration through time or use, fatigue life, and operating conditions.

C.3.2.1.6 Quality Engineering

C.3.2.1.6.1 If the Contractor is required to design inspection equipment, the Contractor shall provide instruction pamphlets and manuals required for the operation, maintenance, and calibration of the inspection equipment. Inspection equipment information shall be submitted in electronic format as part of an ECP package in accordance with CDRL A005, Engineering Change Proposal for Government approval. Once the ECP package is approved by the Government, the Government approved information shall be made part of an ERR package and submitted in accordance with CDRL A024, Engineering Release Record. This process applies to future revisions of the inspection equipment.

C.3.2.1.6.2 The Contractor shall prepare the quality assurance portion of modified overhaul or rebuild standards for the HMMWV and submit this information in electronic format as part of an ECP package in accordance with CDRL A005, Engineering Change Proposal for Government approval. Once the ECP package is approved by the Government, the Government approved information shall be made part of an ERR package and submitted in accordance with CDRL A024, Engineering Release Record. This process applies for future revisions to modified overhaul or rebuild standards for the HMMWV.

Quality assurance information of HMMWV modified or overhaul rebuild standards includes on-site inspection and tests performed during overhaul or rebuild of the contract item to insure that the item fulfills the quality requirements of applicable specifications and standards.

C.3.2.1.6.3 The Contractor shall maintain and develop Final Inspection Reports (FIRs) for each model to the contract item. The FIRs shall be updated and developed in accordance with CDRL A009, Final Inspection Report, as Work Directive specified to reflect all approved configuration changes.

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C.3.2.2 Task Area 2, Logistics Services.

C.3.2.2.1 Logistics Management Services. The Contractor shall update Government-approved provisioning and technical manual changes related to design, support, and operational requirements.

C.3.2.2.1.1 The Contractor shall utilize existing Government tools and Test, Measurement and Diagnostic Equipment (TMDE) to the maximum extent possible. Introduction of new special tools and TMDE will require COR approval. If usage of existing Government tools and TMDE is not possible, the Contractor shall identify the new special tools and TMDE and submit the information in accordance with CDRL A010, Logistics Management Information (LMI) Summaries.

C.3.2.2.1.2 For the purpose of provisioning and technical manual changes, the Contractor shall select consumable items from the Government supply system. If an item cannot be located, or the Army is not listed as a user, usage of alternate consumable items will require COR approval. The Contractor shall identify alternate consumable items in accordance with CDRL A010, Logistics Management Information (LMI) Summaries.

C.3.2.2.2 Publications. The Contractor shall update paper TMs, Interactive Electronic Technical Manuals (IETMs) and National Maintenance Work Requirements (NMWRs) related to the HMMWV FOV with Government approved changes. Military Standards (MIL-STD) 40051-2, change 3 and / or MIL-STD 40051-1, change 3 shall be employed. Updates to paper manuals shall be in the same style and format as the most recent published manual. Updates to Electronic Technical Manuals (ETMs)/IETMS shall utilize the most current version of the Electronic Maintenance System NexGen (EMS NG) Software suite. The Contractor shall be responsible for obtaining and using updated releases of the EMS-NG suite to ensure they are providing the best product to the field. Contractor updated publications shall be delivered in accordance with CDRL A011, Technical Manuals, and CDRL A012, Interactive Electronic Technical Manuals for IETMs.

C.3.2.2.3.1 IETM Capabilities. The Contractor shall ensure that the modified IETM maintains a history file consisting of a list of information accessed by the user during one session in which each list entry is a link which allows the user to return to that information. The Contractor shall ensure that IETM information is linked. At a minimum IETM information shall consist of:

C.3.2.2.3.1.1 The Contractor shall link all associated troubleshooting, maintenance, and Repair Parts Special Tools List (RPSTL) information.

C.3.2.2.3.1.2 The Contractor shall link all references within the IETM.

C.3.2.2.3.1.3 The Contractor shall link all referenced documents external to the IETM and included on the CD.

C.3.2.2.3.1.4 The Contractor shall use the menu entries as an IETM "table of contents." The main menu shall include pertinent IETM information that consists of: general information, operation procedures, Preventive Maintenance Checks and Services (PMCS) tasks, maintenance procedures, troubleshooting, supporting information, Maintenance Allocation Chart (MAC), wiring diagrams, and parts information. These menu items shall be linked.

C.3.2.2.3.1.5 The Contractor shall include links to the referenced information on individual procedures that contain set-up information.

C.3.2.2.3.1.6 The Contractor shall link animations and user-rotatable 3D Graphics.

C.3.2.2.3.1.7 The Contractor shall link equipment model information to display differences among the models. If a specific model is being employed, there should be a filter incorporated within the model linkage contained within the IETM that displays only information pertinent to that model.

C.3.2.2.3.1.8 The Contractor shall link maintenance-level information to display different maintenance levels. There should be a filter within the IETM that allows the user to select a specific maintenance level and display information for the selected maintenance level.

C.3.2.2.3.1.9 The Contractor shall link conventional help screens.

C.3.2.2.3.1.10 The Contractor shall link troubleshooting assistance information. The IETM troubleshooting capability shall be designed so that each screen provides a single decision and that decision dictates the next troubleshooting screen. At each screen, the reason for the action, a list of possible problems yet to be checked, and a history of what has been checked shall be available to the user. The troubleshooting capability shall be hardware intrusive and interface with XP and VISTA MSD; troubleshooting trees shall send, receive, and interpret data from vehicle data buses and shall fully integrate these actions with the troubleshooting tree screens. The IETM shall interact with the following (for the equipment covered): (i) DCA data bus; (ii) SAE J1708 data bus; (iii) SAE J1939 data bus.

C.3.2.2.3.1.11 The Contractor shall include printing capabilities on linked information. The user shall be able to print schematics; operator, maintenance or troubleshooting procedures as well as Repair Parts and Special Tools information.

C.3.2.2.3.2 Contractor Validation Services. The Contractor shall perform technical manual validation services that consist of analysis of current HMMWV system specifications to ensure that they are correct and meet the end users need. The Contractor shall perform these

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services at a facility that is proposed by the Contractor and approved by the COR.

C.3.2.2.3.3 The Contractor shall provide the milestone chart in accordance with CDRL A013, Publication Milestones.

C.3.2.2.3.4 Corresponding to the Government approved milestones resultant from CDRL A013, Publication Milestones submittals, the Contractor shall submit a Publication Status Matrix Report in accordance with CDRL A014.

C.3.2.2.3.5 The Contractor shall submit Government approved publication final revisions in accordance with CDRL A015 Final Publication Revision.

C.3.2.2.3.6 The Contractor shall update the current HMMWV Maintenance Allocation Chart (MAC) in accordance with CDRL A016, Maintenance Allocation Chart (MAC) Updates.

C.3.2.2.3.7 The Contractor shall update HMMWV FOV Preventive Maintenance Checks and Services (PMCS) in accordance with CDRL A017, Preventative Maintenance Checks and Services (PMCS) Updates.

C.3.2.2.4 Provisioning.

C.3.2.2.4.1 The Contractor shall update provisioning records for the HMMWV FOV with Government approved modifications to source data and corrections resultant from Government verification and reviews.

C.3.2.2.4.2 The Contractor shall provide the milestone chart in accordance with CDRL A018, Provisioning Milestone Chart.

C.3.2.2.4.3 Corresponding to the Government approved milestones resultant from CDRL A018, Provisioning Milestone Chart, Milestone Chart submittals, the Contractor shall provide a LSA 036 in accordance with CDRL A010, Logistics Management Information (LMI) Summaries.

C.3.2.2.4.4 The Contractor shall provide a Repair Parts and Special Tools List (RPSTL) in accordance with CDRL A010 that incorporates provisioning recommendations based upon technical drawings, screening data, recommendations from Contractor validation and Government verification, the Preliminary Technical Manual (PTM), Final Equipment Draft Publication (FEDP) and Final Reproducible Copy (FRC), Technical Manual, Interactive Electronic Technical Manual (IETM) and National Maintenance Work Requirement (NMWR) in support of LSA 036 delivery.

C.3.2.2.4.5 The Contractor shall assemble provisioning packages resultant of Government approved recommendations in accordance with CDRL A019, Supplemental Provisioning Technical Documentation.

C.3.2.2.4.6 The Contractor shall provide top assembly drawings for the sub-assemblies as part of the information submitted in accordance with CDRL A019, Supplemental Provisioning Technical Documentation.

C.3.2.2.4.7 The Contractor shall screen for standardization of all part numbers selected as repair parts. To accomplish the screening, the Contractor may elect to access the FEDLOG database, or any other commercially available equivalent product, to identify repair parts, tools, and components in the Government supply system. To obtain access to FEDLOG, the Contractor shall submit a completed AMXCA Form 108, Authorization for Distribution of DCA Products to Government Contractor. The COR will provide this form upon contractor request. The form shall be submitted to the COR for approval and further processing.

C.3.2.2.4.8 The Contractor shall prepare Engineering Data for Provisioning (EDFP), Screening Data and LSA-036 Reports for HMMWV FOV provisioning conferences.

C.3.2.2.4.9 The Contractor shall submit the Government approved provisioning data in a format compatible with the Government's Logistic Modernization Program (LMP) as specified in the Work Directive. The data shall be capable of being loaded into the LMP Staging Area, without data having to be modified. LMP has two methods by which the Contractor can deliver provisioning data: a. Provisioning Parts List (PPL) LSA 036 report in MIL-STD-1388-2A format, or b. PPL LSA 036 report in MIL-STD 1388-2B format. The Contractor may choose any of the above methods. The data can be sent via e-mail or CD ROM; the format needs to be in American Standard Code for Information Interchange (ASCII).

C.3.2.2.4.10 The Contractor shall meet with the Government in a coordinated manner (face-to-face or teleconference) to discuss and agree upon provisioning data elements to be submitted in the LSA 036 Report.

C.3.2.2.5 Maintenance Planning. In the evaluation of safety, sustainment and systematic issues, the Contractor shall make recommendations for effective and efficient HMMWV maintenance planning necessitated from design changes, to include updates and modifications in accordance with CDRL A020 Maintenance Recommendations.

C.3.2.2.6 Packaging Data. The Contractor shall prepare and submit Special Packaging Instructions in accordance with CDRL A029 Special Packaging Instructions.

C.3.2.2.6.1 The Contractor shall prepare and submit Container Design Retrieval System Data Input in accordance with CDRL A030 Container

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Design Retrieval System Data Input.

C.3.2.2.6.2 The Contractor shall prepare and submit Equipment Preservation Data Sheets in accordance with CDRL A031 Equipment Preservation Data Sheet.

C.3.2.3 Task Area 3 Configuration Management (CM). The Contractor shall perform CM tasks that include management and planning, configuration identification, configuration control (change management), configuration status accounting, and configuration verification and audit. Data Management includes managing digital data, including data identification, markings, access, interchange, and transfer, and data on electronic media. Data Management includes version control, representations, file identification, data workflows, data states (e.g., submitted, in-work, under review, released, approved, rejected) and additional requirements that are contained in paragraph/subparagraphs C.3.2.4 and HMMWV Technical Data Package (TDP) Requirements (Attachment 0003). MIL-STD-973, Configuration Management, MIL-HDBK-61A, EIA-649-B, Configuration Management Standard, and GEIA-HB-649, Implementation Guide for CM, is recommended as reference guidance for CM, and GEIA-859-A, Data Management, as reference guidance for Data Management.

C.3.2.3.1 The Contractor shall maintain the HMMWV FOV Technical Data Packages (TDPs) ensuring that that they are current, legible and available for intended uses. Intended uses consist of: follow-on vehicle production, Recap, spare parts procurements, vehicle modification, system design and integration. The Contractor shall maintain a record of past and ongoing engineering changes and product data revisions.

C.3.2.3.2 In accordance with Government approved recommendations, the Contractor shall create, revise and deliver product data on-line that consists of Engineering Change Proposals (CDRL A005, ECPs), Value Engineering Change Proposal (VECPs), and Engineering Release Records (CDRL A024, ERRs) utilizing the Governments Product Data Management (PDM) system called Windchill PDMLink. The Contractor shall obtain a login and password to the Windchill for all contractor personnel responsible for preparing ECPs, VECPs and ERRs and submitting to the Government using the automated workflow. Security requirements for accessing Government databases are in Security and Information Assurance Requirements section of this Performance Work Statement.

C.3.2.3.3. PDMLink Training. The Contractor shall abide by the Windchill Standard Operating Procedures (SOPs), the CM Policies and Procedures for PDMLink, and the guidance provided by the Government CDM and CAD representatives. The Contractor shall attend, at the Governments expense, PDMLink training sessions in accordance with the Work Directive:

- a. PDMLink Basic Training (2 hours),
- b. PDMLink Change Management Training (3 hours),
- c. PDMLink Advanced Training (3 hours), and
- d. PDMLink Design (CAD) Management Training (8 hours).

C.3.2.3.3.1 Government-provided training may be either formal (e.g. classroom, conference room setting, contractor or Government location), informal (e.g. an on-line course), or a combination. If additional or refresher PDMLink training is needed for the execution of services under this contract, the Contractor shall e-mail a request to the ACE Support Email Address:

mailto:usarmy.detroit.rdecom.mbx.tardec-ace-support@mail.mil?subject=ACE%20Helpdesk:%20Contact%20ACE%20Support&body=If%20you%20are%20having%20a%20problem,%20please%20add%20your%20questions/comments/concerns%20to%20this%20email%20and%20send%20to%20the%20ACE%20Support%20email%20address%20(usarmy.detroit.rdecom.mbx.tardec-ace-support@mail.mil).%20Please%20be%20as%20specific%20as%20possible%20when%20describing%20the%20problem%20and%20provide%20any%20error%20messages%20that%20you%20have%20received.. Approval, location, and type of training will be at the discretion of the Government (ACE Support Center and PD LTV CM).

C.3.2.3.3.2 The Contractor shall receive Certificates of Completion from the Government for any PDMLink training sessions completed. The Contractor shall submit these documents in accordance with CDRL A021, Certificates of Completion.

C.3.2.3.3.3 PDMLink Software Issues. The Contractor shall notify the Helpdesk via e-mail message to
mailto:usarmy.detroit.rdecom.mbx.tardec-ace-support@mail.mil?subject=ACE%20Helpdesk:%20Contact%20ACE%20Support&body=If%20you%20are%20having%20a%20problem,%20please%20add%20your%20questions/comments/concerns%20to%20this%20email%20and%20send%20to%20the%20ACE%20Support%20email%20address%20(usarmy.detroit.rdecom.mbx.tardec-ace-support@mail.mil).%20Please%20be%20as%20specific%20as%20possible%20when%20describing%20the%20problem%20and%20provide%20any%20error%20messages%20that%20you%20have%20received. when product data creation, changes, or corrections cannot be accomplished due to login or access issues, software deficiencies or other malfunctions. The Contractor shall courtesy copy the TACOM CDM representative on all PDMLink helpdesk requests. The Contractor shall notify the CDM representative immediately, by telephone or e-mail, when product data is unavailable for updating or correction. The CDM representative will work the issue, and, once resolved, provide confirmation to proceed in PDMLink.

C.3.2.3.4 Engineering Change Proposals (ECPs)

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C.3.2.3.4.1 The Contractor shall prepare all Class I and Class II ECPs in accordance with CDRL A005, Engineering Change Proposal (ECP) and the Data Delivery Description (DDD) for ECPs and VECs. The Contractor shall prepare Value Engineering Change Proposals (VECPs) in the same manner as Class I ECPs. Proposed changes to specifications and engineering documents shall be described using Notices of Revision (NORs) prepared in accordance with CDRL A022, Notice of Revision (NOR) and the Data Delivery Description (DDD) for NORs.

C.3.2.3.4.1.1 The Contractor shall conduct a technical review of each product engineering change resulting from Contractor and Government testing, as a result of any test site generated Test Incident Report (TIR), or in response to field issues, quality deficiency reports, or Work Directives. The Contractor shall finalize new product data and incorporate all Government approved changes into existing product data (e.g., Product Models, Drawings, Associated Lists, Quality Assurance Technical Documentation, Packaging data) by revision action and deliver in accordance with the engineering release records (ERR) requirements (CDRL A024).

C.3.2.3.4.2 ECP/ERR Numbers. The Contractor shall request ECP numbers via e-mail to the COR and CDM representative. The Contractor shall utilize these numbers in a sequential basis as control identifiers for ECPs and subsequent ERRs. Once an ECP number is assigned to an initial ECP submission, that number shall be used for all subsequent submissions of that ECP, as well as for the subsequent ERR. The ECP and ERR number shall consist of the Government-assigned Contractor three character alpha prefix (e.g., ABC), followed by a Government assigned five-digit alpha-numeric number (e.g., W1234). For ECPs returned for rework, the Contractor shall resubmit as a new ECP, retaining the original ECP number, with a sequential R1, R2, etc., suffix added. Minor corrections to the PDMLink ECP shall be made directly in PDMLink, prior to Government approval. The Contractor shall maintain records of where and when each ECP and ERR number was used and furnish this information in accordance with CDRL A023, Configuration Status Accounting Information (CSAI) Report.

C.3.2.3.4.3 ECP Impact Statements. As part of the ECP, the Contractor shall include impact product configuration areas (e.g., transportability, safety, technical manuals, packaging, quality, integrated logistics support, MANPRINT).

C.3.2.3.4.4 ECP Spare and Repair Parts Data Statement. The Contractor shall describe interchangeability factors or otherwise include an ECP Spare and Repair Parts Data Statement as part of the electronic ECP package (in accordance with CDRL A005, Engineering Change Proposals (ECP)) when interchangeability is affected or when a new part is introduced or a part is cancelled.

C.3.2.3.4.5 ECP Enclosure List. The Contractor shall identify and list all documents contained in the ECP package. As part of the submittal, the Contractor shall identify all end items affected by the ECP, specific elements that will be affected by the ECP, other pending ECPs affecting one or more items in the submitted ECP, and NSN(s) impacted as a result of any proposed part number change.

C.3.2.3.5 ECP Submission in PDMLink: When submitting an ECP to the Government, the Contractor shall use PDMLink to create an ECP record and to submit the ECP via the HMMWV workflow in accordance with:

a. The Standard Operating Procedures (SOPs) available on-line at:

https://ace2.tacom.army.mil/support/index.php?unique_page_number=1150&AjaxEnabled=component&tableID=null&actionName=aceSupport&portlet=ppedup&context=netmarkets%24overview%24OR%3Awt.org.WTUser%3A3510160%24&oid=OR%3Awt.org.WTUser%3A3510160,

b. Policies and Procedures available on-line from the Configuration and Data Management Policy Library at:

<https://ace2.tacom.army.mil/Windchill/servlet/TypeBasedIncludeServlet?ContainerOid=OR%3Awt.inf.library.WTLibrary%3A1060145909&oid=OR%3Awt.folder.SubFolder%3A1060146364&u8=1>, and

c. The received direction from the COR, Contract Modification, or Work Directive.

C.3.2.3.5.1 The Contractor shall ensure that ECPs submitted in PDMLink accurately links affected objects and end items, that supporting ECP files are complete and linked correctly, and that digital 2D and 3D Computer Aided Design (CAD) and graphic image files are functional, accurate and legible prior to submitting the ECP to the Government. The contractor shall comply with the requirements listed in CDRL A005.

C.3.2.3.5.2 ECP Co-User Requirements. When the Contractor prepares a Class I ECP that affects two or more configuration items or systems for which the Contractor is custodian, the Contractor shall provide a complete reproducible ECP package to each of the Governments co-user(s) CDM representatives requesting comments on the change. When the Contractor is not the custodian of the data proposed for change, the Contractor shall provide an ECP package to both the custodian contractor and Government co-user(s) CDM representative(s), requesting comments and approval of the change. If the Contractor cannot identify the Co-user(s) or custodian the Contractor shall notify the HMMWV CDM representative at TACOM, RDTA-EN/CM, and request assistance. The Contractor must complete coordination with the custodian and co-user(s) (both Government and Contractor) before submitting the ECP package for formal review to the HMMWV Configuration Control Board (CCB). When all comments have been received, the Contractor shall submit the ECP package, including all solicited comments, for processing. The Contractor shall include documentation in the ECP package indicating which item(s) are co-used and who is custodian of the co-used data, and include applicable co-user points of contact. The Government will notify the respective Contractor(s) when the disposition of the ECP has been made and, if approved, the custodian(s) will be directed to incorporate the change and prepare an Engineering Release Record (ERR). Following the preparation of the ERR, the custodian of data under this contract shall post the ERR and the revised data to PDMLink for review and approval by the HMMWV CDM. Upon ERR approval, the CDM will release the revised documents to the PDMLink for retrieval and use by the applicable co-user(s).

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C.3.2.3.5.2.1 ECP Review by Custodial Contractor. When a second party or co-user of HMMWV data proposes an engineering change, the Contractor shall prepare a response to the proposed change and submit it for TACOM review, along with a copy of the initiator's ECP, to the CDM representative for HMMWV within 20 days of receipt. The CDM representative will staff the proposed change to the TACOM CCB Chair and additional CCB members, as necessary. The custodial Contractor shall return the Government and custodian-coordinated ECP package to the ECP originator for further disposition. If TACOM agrees to accept the ECP for formal review, the ECP originator (second party, co-user, etc.) will resubmit the complete ECP package, including all solicited comments, to TACOM, RDTA-EN/CM, for formal evaluation by the HMMWV CCB.

C.3.2.3.6 Engineering Release Record (ERR). Engineering release is an action that formally approves configuration documentation and makes configuration documentation available for its intended use. The ERR is how the Contractor initially delivers new product data to establish the product baseline (i.e., "initial release"), and delivers revised product data implementing approved changes to the existing Product Baseline (i.e., "change release"), subsequent to a Government-approved ECP. The Contractor shall create, maintain, and revise product data and submit ERR packages in accordance with CDRL A024, Engineering Release Record (ERR) to reflect the current, Government-approved, Product Baseline configuration for the complete HMMWV TDP for the entire contract performance period. The ERR Package is defined as the ERR record consisting of the ERR form submitted concurrently with the new and revised product drawings, models, and associated lists under CDRL A025, Product Drawings, Models and Associated Lists, for Product Baseline initial release or change release. The Contractor shall prevent premature release of product data related to an ECP until the Government has approved the ECP and subsequent ERR.

C.3.2.3.6.1 The Contractor shall deliver developmental data by ERR only as Allocated Baseline data for preliminary release upon Government approval.

C.3.2.3.6.2 The Contractor shall correct incomplete or erroneous product data immediately as a correction within the existing PDMLink ERR or as a complete re-submittal.

C.3.2.3.6.3 End of Contract. Prior to end of contract, the Contractor shall transfer all ECPs, ERRs, Status Accounting Reports, and Product Models, Drawings, and Associated Lists not previously delivered as one or more closeout ERRs.

C.3.2.3.7 Configuration Status Accounting Information. The Contractor shall prepare and submit configuration status accounting reports in accordance with CDRL A023, Configuration Status Accounting Information (CSAI) Report.

C.3.2.3.8 Audits

C.3.2.3.8.1 Functional Configuration Audit (FCA). FCAs are conducted to verify that the actual performance of the Configuration Item (CI) meets the requirements stated in its performance specification and to certify that the CI has met those requirements. The Contractor shall provide a completed Configuration Audit Plan in accordance with CDRL A026, Configuration Audit Plan. The FCA agenda shall be included in the plan.

C.3.2.3.8.1.1 Configuration Audit Summary Report. The Contractor shall submit a Configuration Audit Summary Report after the FCA in accordance with CDRL A027, Configuration Audit Summary Report to identify discrepancies found between CI performance and the performance specification. The Contractor shall address each issue to include resulting close-out action.

C.3.2.3.8.2 Physical Configuration Audit (PCA). PCAs are conducted to verify that the CI conforms to the design documentation. The Government will provide the Contractor with an outline of the requirements for the PCA. The Contractor shall provide a completed Configuration Audit Plan in accordance with CDRL A026, Configuration Audit Plan. The PCA agenda will be included in the plan. Any findings from the PCA that require corrective action on new, engineered, or modified CIs under this contract, shall be the responsibility of the Contractor.

C.3.2.3.8.2.1 Configuration Audit Summary Report. The Contractor shall submit a Configuration Audit Summary Report in accordance with CDRL A027, Configuration Audit Summary Report, after the PCA, to identify discrepancies found between hardware, software, and contract requirements. The Contractor shall address each issue to include resulting close-out action.

C.3.2.3.8.2.2 At any time, the proper storage and configuration control processes shall be subject to a Government audit, including Contractor design and engineering locations, parts storage locations, manufacturing locations and processes that are affected with Contractor change control and CM activities or at any other location where data under this contract is generated, used or stored. The Contractor shall deliver a Configuration Audit Plan in accordance with CDRL A026 and Configuration Audit Summary Report in accordance with CDRL A027.

C.3.2.3.9 As Built Configuration List (ABCL). As part of any engineering effort, new or improved design, or CI audit, the Contractor shall prepare and deliver a current ABCL, in accordance with CDRL A028, As Built Configuration List, hereafter referred to as an Indentured Bill of Material (IBOM). The IBOMs shall be prepared in indenture level sequence down to the lowest component piece part level.

C.3.2.4 Technical Data Requirements-Technical Data Package (TDP) and Data Management (DM)

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C.3.2.4.1 The Contractor shall possess a configuration management system and the processes to effectively manage, securely store, release, validate, and track multiple versions and iterations of as developed and delivered configuration baselines throughout the contract performance period.

C.3.2.4.1.1 Contractor shall prepare Technical Data to provide accurate design, engineering, manufacturing, packaging, and quality assurance requirements. Contractor shall ensure that the Technical Data reflects the as built or assembled and tested baseline configuration. The Contractor shall prepare and deliver a Technical Data Package (TDP) that defines the product configuration baseline for a Government-approved top assembly item, components or single part item in Government format in accordance with CDRL A025, Products Drawings, Models and Associated Lists.

C.3.2.4.2 The Contractor shall submit drawing modification recommendations to the Government for approval in accordance with CDRL A025, Products Drawings, Models and Associated Lists. The Contractor shall ensure that all Government approved changes to sketches, contract part drawings and AOPN drawings are provided in accordance with prescribed specifications and standards and contain sufficient dimensional, functional, protective finish and material deterioration prevention requirements with which to determine the acceptability of hardware manufactured against such drawings.

C.3.2.4.3 Quality Assurance Provisions (QAPs). The Contractor shall develop or update QAPs for applicable items, components or assemblies. Developing and updating of QAPs shall be based on the recommendations of the Quality Engineering Review. When developing QAPs, the following considerations shall be made to achieve a cost-effective, quality product: limit the use of specialized test and inspection equipment to only when necessary, define test setups and test equipment only when necessary, limit use of Inspection Method Control Sheets (IMCS) to only when necessary. A determination whether the Supplementary Quality Assurance Provision (SQAP) or QAR should be updated to a QAP or deleted as no longer valid or required shall be made during ECP actions or as required by a task. Deleted documents shall be marked obsolete by revision action and maintained in a backup file for reference data. The Contractor shall maintain a database containing a listing of SQAPs, QARs, QAPs, and drawings with QAPs directly on them which contains, as a minimum, nomenclature, number of pages, and latest revision status, to include the ERR number.

C.3.2.4.3.1 Work directives will define whether the Contractor shall place QAPs on a separate document or directly on the drawing.

a. For separate documents, the Contractor shall use "Preparation and Maintenance of Quality Assurance Provisions (QAPs)" (to be provided as GFI) as a guide when updating and developing QAPs.

b. For QAPs placed directly on the drawing, the Contractor shall use "Requirements for Developing and Maintaining Quality Assurance Provisions (QAPs)" (to be provided as GFI) as a guide.

C.3.2.4.3.2 The Contractor shall develop and maintain the Quality Assurance Technical Documentation (QATD) at their facility until completion of contract, with copies to be furnished to the Government upon request. QATD may consist of calculations, layouts, sketches, schematics, charts, design drawings, CAD models, and other visual depictions and the master list of inspection equipment drawings. New and revised QATD for release will be delivered by ERR in accordance with the ERR requirements of this contract.

C.4 Government-Furnished Property, Equipment, and Services. GFE/GFM/GFI will be tracked on Attachment 0005, Government Furnished Property. The Government will provide Contractor personnel access to the following equipment/material/information after contract award:

a. Existing Government tools and Test, Measurement, and Diagnostic Equipment (TMDE) will be utilized by the Contractor to the maximum extent possible. Introduction of new special tools and TMDE will require COR approval.

b. GFE vehicles for Integrated Logistics Support (ILS) services. Maintain GFE vehicles and items in their possession and perform necessary repairs and maintenance to keep items in a serviceable condition suitable for intended efforts under this contract and return the vehicles to a 10/20 status as defined in Army Regulation 750-1, Army Material Maintenance Policy.

c. The Government will provide the Contractor the latest published Technical Manual (TM) and Interactive Electronic Technical Manual (IETM) for provisioning updates.

d. The Government will provide the Contractor a copy of the current Provisioning Bill of Material (PBOM).

e. The Government will provide technical support for TM verifications. Technical support consists of special tools, common tools, lubricants, parts which must be removed each time they are replaced, expendables, shop facilities and equipment, and technical personnel support.