

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. Contract ID Code  
Firm Fixed Price

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2. Amendment/Modification No. P00023	3. Effective Date 2013AUG21	4. Requisition/Purchase Req No. SEE SCHEDULE	5. Project No. (If applicable)
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6. Issued By U.S. ARMY CONTRACTING COMMAND DANIEL J. GIBSON WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL  EMAIL: DANIEL.J.GIBSON2@US.ARMY.MIL	Code W56HZV	7. Administered By (If other than Item 6) DCMA CHICAGO 1523 WEST CENTRAL ROAD BLDG 203 ARLINGTON HEIGHTS IL 60005-2451	Code S1403A
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8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code)  JOHN DEERE SHARED SERVICES, INC. 1515 5TH AVE STE 200 MOLINE, IL 61265-1397	<input type="checkbox"/>	9A. Amendment Of Solicitation No.
	<input type="checkbox"/>	9B. Dated (See Item 11)
	<input checked="" type="checkbox"/>	10A. Modification Of Contract/Order No. W56HZV-09-D-0064
	<input type="checkbox"/>	10B. Dated (See Item 13) 2009JAN30
Code 3PSD7	Facility Code	

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

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

is extended,  is not extended.

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

**12. Accounting And Appropriation Data (If required)**

NO CHANGE TO OBLIGATION DATA

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

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

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

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

SEE SECOND PAGE FOR DESCRIPTION

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

15A. Name And Title Of Signer (Type or print)	16A. Name And Title Of Contracting Officer (Type or print) KEITH W. AHLSTROM KEITH.AHLSTROM@US.ARMY.MIL (586)282-0538		
15B. Contractor/Offeror  (Signature of person authorized to sign)	15C. Date Signed	16B. United States Of America By _____ /SIGNED/ (Signature of Contracting Officer)	16C. Date Signed 2013AUG21

**CONTINUATION SHEET****Reference No. of Document Being Continued****Page 2 of 32****PIIN/SIIN** W56HZV-09-D-0064**MOD/AMD** P00023**Name of Offeror or Contractor:** JOHN DEERE SHARED SERVICES, INC.

## SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: DANIEL J. GIBSON  
Buyer Office Symbol/Telephone Number: CCTA-HBF-M/(586)282-3543  
Type of Contract: Firm Fixed Price  
Kind of Contract: System Acquisition Contracts  
Type of Business: Large Business Performing in U.S.  
Surveillance Criticality Designator: B  
Contract Expiration Date: 2014JAN28

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

Contract: W56HZV-09-D-0064  
Modification: P00023  
Value of this Action: \$0

1. This modification is being issued as a bilateral action.
2. The purpose of this action is to edit the language in Scope of Work (SOW) section C.16 and establish the following year 5 CLINs for Marine Corps training:
  - a) CLIN 0531 is established in the amount of \$10,602.00 for fifth year NET-Base Vehicle Operator Training.
  - b) CLIN 0532 is established in the amount of \$10,602.00 for fifth year NET-Base Vehicle Maintainer Training.
  - c) CLIN 0533 is established in the amount of \$7,888.00 for fifth year NET-Armor/Crew Protection Kit (CPK) Installation Training.
  - d) CLIN 0534 is established in the amount of \$64,052.00 fifth year Material Revisions.
  - e) CLIN 0535 is established in the amount of \$10,602.00 for fifth year Operator Training - I&KPT.
  - f) CLIN 0536 is established in the amount of \$10,606.00 for fifth year Maintainer Training - I&KPT.
  - g) CLIN 0537 is established in the amount of \$7,888.00 for fifth year Armor/Crew Protection Kit (CPK) Installation Training - I&KPT.
3. The SOW is changed as follows:
  - a) C.16.2.1.3  

From: Training Courses. The training courses will consist of lectures, demonstrations, practical application, and evaluation.

To: C.16.2.1.3 Training Courses. The training courses will consist of lectures, demonstrations, practical application, and evaluation to include but not limited to written tests and hands on practical performance.
  - b) C.16.2.3.1  

From: Operator Training. The course shall be designed for HYEX Operators, covering complete operation (capabilities, limitations, interfaces, tool attachment and detachment procedures) and safety of the vehicle, correct use of equipment, basic issue items (BII), before/during/after operations Preventive Maintenance Checks and Services (PMCS), trouble-shooting, and tools used for operator maintenance tasks. The training shall be consistent with the procedures established in the appropriate HYEX technical manual. The training shall also include the vegetation removal tool attachment. (The cost for the development of the vegetation removal tool data will be borne by the Army.) Upon completion of instruction, the contractor shall conduct a written test/examination and performance (hands-on) test for each operator trainee.

To: Operator Training. The contractor shall design the course for HYEX Operators, covering complete operation to include (but not limited to) capabilities, limitations, interfaces, tool attachment and detachment procedures, characteristics of the armor cab and the difference in operation when the Armor cab is installed, safety of the vehicle, correct use of equipment, basic issue items (BII), before, during and after operations Preventive Maintenance Checks and Services (PMCS), trouble-shooting, and tools used for operator maintenance tasks. The training shall be consistent with the procedures established in the appropriate HYEX technical manual. The training shall also include the vegetation removal tool attachment. (The cost for the development of the vegetation removal tool data will be borne by the Army.) Upon completion of instruction, the contractor shall conduct a written test/examination and practical hands-on performance test for each operator trainee.

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c) C.16.2.3.2

From: Maintainer Training. The course shall be designed for maintainers of the HYEX, covering minimal operation characteristics, Field (Intermediate) Level PMCS, TMDE utilized for diagnostics, troubleshooting, and repair/replacement of equipment components to include sub-system, unique control systems, engine, fuel, pumps, and electrical, hydraulic, pneumatic, and ancillary systems is so equipped. The training shall be consistent with procedures established in the appropriate HYEX technical manual. Upon completion of instruction, the contractor shall conduct a written test/examination and performance (hands-on) test for each maintainer trainee or small group of trainees.

To: Maintainer Training. The contractor shall design the course for maintainers of the HYEX. The topics to be covered shall be: minimal operation characteristics, Field Level PMCS, TMDE utilized for diagnostics, troubleshooting, and repair/replacement of equipment components to include sub-system, unique control systems, engine, fuel, pumps, and electrical, hydraulic, pneumatic, and ancillary systems if so equipped. The training shall be consistent with the approved Job Task Analysis submitted under CDRL A040 and procedures established in the appropriate HYEX technical manual. Upon completion of instruction, the contractor shall conduct a written test/examination and performance (hands-on) test for each maintainer trainee or small group of trainees.

d) C.16.2.4

From: Training Material Development. The Contractor shall develop the HYEX Operator and Maintainer (Mechanic) training courses using Contractor-developed training materials. No classified information shall be included in the training materials. The contractor shall deliver all course control documents and training materials in an editable commercial electronic format: (Microsoft Word for documents and PowerPoint for presentations). Materials submitted shall not conflict with the content of the HYEX technical manuals. Training materials shall be developed at the tenth (10th) grade reading and comprehension level. The training courses will consist of lectures, demonstrations, practical application, and evaluation. Operator training shall be structured to provide no more than 30% classroom (lecture) and 70% practical application (hands-on) on equipment. Maintainer training shall be structured to provide no more than 40% classroom (lecture) and 60% practical application (hands-on) on equipment. Training course class sizes shall be no more than 12 students. The student to instructor ratio shall be no more 12:1 for lectures, practical application, hands-on training, and practical exercises. Operator, Maintainer, and Armor training shall not exceed forty (40) hours in length each, five (5) eight-hour days. Government approval is required to extend the class length beyond forty (40) hours. The Contractor shall develop all training materials and conduct all training courses in accordance with (IAW) NAVMC 1553.1, Systems Approach to Training (SAT) Users Guide, dated 27 Oct 2010. The government (USMC) can provide example/sample training materials at the Start of Work meeting.

To: Training Material Development. The contractor shall develop the HYEX Operator, Maintainer (Mechanic), and Armor/Crew Protective Kit Installation training courses in accordance with (IAW) NAVMC 1553.1, Systems Approach to Training (SAT) Users Guide, dated 27 Oct 2010. The Government can provide example/sample training materials at the Start of Work meeting. No classified information shall be included in the training materials. The contractor shall deliver all course control documents and training materials in an editable commercial electronic format: (Microsoft Word for documents and PowerPoint for presentations). Materials submitted shall not conflict with the content of the HYEX technical manuals. Training materials shall be developed at the tenth (10th) grade reading and comprehension level. The training courses shall consist of lectures, demonstrations, practical application, and evaluation. Operator training shall be structured to provide no more than 30% classroom (lecture/demonstration) and 70% practical application (hands-on) on equipment. Maintainer training shall be structured to provide no more than 40% classroom (lecture/demonstration) and 60% practical application (hands-on) on equipment. Training course class sizes shall be no more than 12 students. The student to instructor ratio shall be no more than 12:2 for lectures, practical application, hands-on training, and practical exercises. Operator and Maintainer training courses shall not exceed forty (40) hours in length each, consisting of five (5) eight hour days. Armor/CPK Installation training course shall not exceed twenty four (24) hours in length, consisting of three (3) eight hour days. Government approval is required to extend/exceed the class length for Operator, Maintainer, and Armor/CPK Installation beyond the above prescribed lengths.

e) C.16.2.7

From: Instructor and Key Personnel Training (I&KPT). Instructor and Key Personnel Training Operator and Maintainer courses. The Contractor shall conduct training courses for both HYEX Operators and maintainers using training materials developed under this contract, at a Contractor location. The Contractor shall provide HYEXs, equipment, facilities, tools (common and special) and all replacement parts and consumables during the training. This I&KPT is for the purpose of piloting and verifying the training materials developed for NET under this contract.

To: Instructor and Key Personnel Training (I&KPT). Instructor and Key Personnel Training; Operator; Maintainer; and Armor Installation courses. The contractor shall conduct training courses for both Operators and Maintainners using training materials developed under this contract, at a mutually agreed on location. The location hosting I&KPT shall provide 250GR HYEXs, facilities, tools (common and special). The contractor shall supply all consumables, replacement parts, and prefabricated fault bugs consumed or utilized during the training. This I&KPT is for the purpose of piloting and verifying the training materials developed for NET under this contract.

f) C.16.2.8.1

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From: New Equipment Training Development. The Contractor shall develop New Equipment Training. The Contractor shall conduct NET for the system based upon the Instructional Performance Requirements Document and utilizing the previously Government-approved training materials. NET shall consist of separate training for Operators and Maintainers in support of fielding and will take place at times and locations designated by the Government. The Contractor shall be informed of the designated time and location at least 30 business days prior to the start of training.

To: The contractor shall develop New Equipment Training. The contractor shall conduct NET for the system based upon the Instructional Performance Requirements Document and utilizing the previously Government-approved training materials. NET shall consist of separate training for Operators, Maintainers and armor/CPK installation in support of fielding and will take place at times and locations designated by the Government. The contractor will be informed of the designated time and location at least 30 business days prior to the training. Travel will be negotiated prior to the issuance of the delivery order, at a firm fixed price basis, and not to exceed the Joint Travel Regulation.

h) C.16.2.6

From: RESERVED

To: Course Conduct Information Package (Trainee and Training Course Completion Data). The Contractor shall develop the HYEX Course Conduct Information Package (Trainee and Training Course Completion Data) in accordance with CDRL A045. Upon completion of each HYEX training class for Instructor and Key Personnel, and each New Equipment Training (NET), the Contractor shall provide the Government with a Trainee and Training Course Completion Data, and a course critique completed by each student as described in CDRL A045. The Contractor shall present each student with a course completion certificate upon receiving a passing grade of 80% and higher.

g) Add C.16.2.3.3

Armor/Crew Protection Kit (CPK) Installation Training. The contractor shall design the course for maintainers of the HYEX and a lesson plan shall be submitted in accordance with CDRL A041, The instruction shall cover: removal of the commercial cab from the HYEX and stowage/packing in the shipping container; unpacking and installation of the Armor/CPK onto the HYEX; differences in operational characteristics with the armor/CPK installed; and any differences in Field (Intermediate) Level PMCS, TMDE utilized for diagnostics, troubleshooting, and repair/replacement of equipment components to include sub-system. The training shall be consistent with the approved Job Task Analysis submitted under CDRL A040 and procedures established in the appropriate HYEX technical manual. Upon completion of instruction, the contractor shall conduct a written test/examination and performance (hands-on) test. Performance (hands-on) test will be a group effort by the Marines attending the training.

h) Add C.16.2.3.4

Material revisions: The contractor shall ensure Operator, Maintainer, Armor/Crew Installation, Operator I&KPT, Maintainer I&KPT, and Armor, Crew Installation I&KPT training sessions are in Navy Marine Corps (NAVMC) format found in Publication 1553.1 Systems Approach to Training (SAT) Users Guide.

4. All work shall be performed in accordance with the terms and conditions established in the base contract.

5. Except as specified above, all terms and conditions remain unchanged.

\*\*\* END OF NARRATIVE A0032 \*\*\*

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Name of Offeror or Contractor: JOHN DEERE SHARED SERVICES, INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0531	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p><u>YR 5 - USMC NET-BASE VEHICLE OPERATOR TRAINING</u></p> <p>GENERIC NAME DESCRIPTION: USMC TRAINING                      PSC: 3920                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>Modification P00023 establishes CLIN 0531 in the amount of \$10,602.00 per training session.</p> <p>SOW: C.16.2.3.1</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				\$ 10,602.00
0532	<p><u>YR 5 - USMC NET-BASE VEHICLE MAINTAINER TRAINING</u></p> <p>GENERIC NAME DESCRIPTION: USMC TRAINING                      PSC: 3920                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>Modification P00023 establishes CLIN 0532 in the amount of \$10,602.00 per training session.</p> <p>SOW: C.16.2.3.2</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				\$ 10,602.00
0533	<p><u>YR 5 - USMC NET-ARMOR/CREW PROTECTION KIT(CPK) INSTALL TRAIN</u></p> <p>GENERIC NAME DESCRIPTION: USMC TRAINING                      PSC: 3920                      CLIN CONTRACT TYPE:</p>				\$ 7,888.00

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	<p>Firm Fixed Price</p> <p>Modification P00023 establishes CLIN 0533 in the amount of \$7,888.00 per training session.</p> <p>SOW: C.16.2.3.3</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination ACCEPTANCE: Destination</p>				
0534	<p><u>YR 5 - USMC TRAINING MATERIAL REVISIONS</u></p> <p>GENERIC NAME DESCRIPTION: YR5 MATERIAL REVISIONS                      PSC: 3920                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>Modification P00023 establishes CLIN 0534 in the amount of \$64,052.00 for one-time, non-recurring incorporation of Marines Corps content into Training Material Revisions.</p> <p>SOW C.16.2.3.4</p> <p>(End of narrative B001)</p>				\$ 64,052.00
0535	<p><u>YR 5 - USMC OPERATOR TRAINING - I&amp;KPT</u></p> <p>GENERIC NAME DESCRIPTION: OPERATOR I&amp;KPT                      PSC: 3920                      CLIN CONTRACT TYPE:                      Firm Fixed Price</p> <p>Modification P00023 establishes CLIN 0535 in the amount of \$10,602.00 per training session.</p> <p>C.16.2.7</p> <p>(End of narrative B001)</p>				\$ 10,602.00

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0536	<p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p> <p><u>YR 5 - USMC MAINTAINER TRAINING I&amp;KPT</u></p> <p>GENERIC NAME DESCRIPTION: MAINTAINER I&amp;KPT                      PSC: 3920                      CLIN CONTRACT TYPE:                          Firm Fixed Price</p> <p>Modification P00023 establishes CLIN 0536 in the amount of \$10,602.00 per training session.</p> <p>C.16.2.7</p> <p style="text-align: center;">(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ 10,602.00
0537	<p><u>YR 5 - ARMOR/CREW PROTECTION KIT INSTALLATION TRAINING I&amp;KPT</u></p> <p>GENERIC NAME DESCRIPTION: ARMOR/CREW I&amp;KPT                      PSC: 3920                      CLIN CONTRACT TYPE:                          Firm Fixed Price</p> <p>Modification P00023 establishes CLIN 0537 in the amount of \$7,888.00 per training session.</p> <p>C.16.2.7</p> <p style="text-align: center;">(End of narrative B001)</p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Destination      ACCEPTANCE: Destination</p>				\$ 7,888.00

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## SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

## STATEMENT OF WORK C.1 - C.17.4.4

## C.1 HARDWARE DELIVERIES

C.1.1 The contractor shall manufacture and deliver a Type I Hydraulic Excavator (HYEX). These HYEXs shall be modified to meet all the technical requirements of Purchase Description (PD) "Purchase Description for Excavator, Hydraulic, Crawler Mounted" PD No. ATPD-2368 (Attachment 001). Delivery Orders will specify the vehicle type, quantity, delivery dates, destinations, level of preservation and paint color. All hardware listed in C.1.2, C.1.3, and C.1.4 shall be included in the unit price of the HYEXs.

- (a) Section E of this contract and section four (4) of the PD specify the First Article Test (FAT) Requirements,
- (b) Section B of each delivery order will specify the color of the top coat of paint as described in paragraph 3.17 of the PD
- (c) Section B of each delivery order will specify vehicle type and their attachments as described in paragraph 3.2.8 of the PD

C.1.2 Basic Issue Items (BII): The Contractor shall provide BII for each vehicle. BII are essential to place and maintain the HYEXs in operation, and to perform routine operator maintenance and emergency repairs. Emergency repairs are defined as repairs that are non-deferrable until mission completion. BII include those select common and special purpose tools, operator publications, and safety equipment (i.e. fire extinguishers) authorized for the HYEXs. The Contractor shall list BII by National Stock Number (NSN) in a separate operator's manual appendix. The contractor shall over-pack the list and the components of the BII IAW the packaging instructions developed for the Technical Manuals (TM).

C.1.3 Initial Service Package (ISP): The contractor shall provide an ISP for each HYEX. The contractor shall over-pack the list and the components of the ISP with each vehicle IAW the packaging instructions developed for the TMs. The ISP shall consist of all service parts/items required to meet warranty service intervals and perform the first scheduled maintenance. The contractor shall mark each item with the nomenclature, part number and NSN (if assigned). A complete ISP inventory list shall be included identifying each item by nomenclature, part number and NSN (if assigned).

Vehicles with CPK installed by the contractor shall include all parts/items specific to the CPK required to meet warranty service intervals. These parts/items shall be over-pack with the vehicle.

C.1.4 Component of End Items (COEI): The contractor shall provide the COEI for each HYEX. COEI are components that are part of the end item but must be removed from the HYEX and separately packaged for military transportation. These components are listed by NSN separately in the appendix to the operator's manual. The contractor shall ensure that all proper COEI arrive with each HYEX. The contractor shall over-pack each COEI IAW with packaging instruction developed in the TMs.

C.1.4.1 COEI will include:

- (a) Heavy Duty Bucket per paragraph 3.2.8.1.1. of the PD
- (b) Utility Bucket per paragraph 3.2.8.1.3. of the PD
- (c) Hydraulic Thumb per paragraph 3.2.8.1.5 of the PD

## C.2 DATA

The contractor shall deliver all data in English. Data delivered under this contract shall be submitted electronically via CD ROM or electronic mail in MS Office compatible format.

## C.3 MEETINGS MINUTES AND REVIEWS

C.3.1 The contractor and Government will schedule meetings and reviews as outlined in C.3.2 below. Ten (10) business days prior to meetings, the Government and contractor shall jointly develop an agenda. Meetings will be held at either a contractor or a Government facility. Any meeting involving the discussion of classified information must be held at a secure facility. When meetings are held at the contractor's facility, the contractor shall ensure the following items are available for the Government's use: production vehicles or other required versions of the HYEXs needed for viewing; required technical, logistics or other documentation (including drawings, computer bases, publications, and other data); and computer resources, as needed. The contractor shall prepare minutes of each meeting within 5 business days after each meeting and deliver a copy of those minutes in accordance with CDRL A001. Meeting minutes shall not include classified information.

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C.3.1.1 Meeting minutes for classified information: Meeting minutes for classified meetings can be prepared as long as they are developed within the secure facility and stored within authorized classified storage facilities IAW classified storage protocol. They can also be transmitted electronically across the Secure Internet Protocol Router (SIPR) network. Meeting agendas, topics etc. can also be distributed beforehand via SIPR.

C.3.1.2 Access to Classified Information: The contractor (or his armor subcontractor) is required to have access to classified information. The contractor (or his armor subcontractor) shall have established the appropriate facilities and management controls up to the secret level.

C.3.2 The contractor shall participate in the following meetings:

C.3.2.1 Start of Work Meeting: Within 30 business days of contract award, TACOM or the contractor shall host a Start of Work meeting at the Detroit Arsenal in Warren Michigan or the contractors facility. The start-of-work meeting may last up to three days. The contractor shall present a plan to manage and develop engineering and logistics products and services identified below. The contractor shall have completed Attachment 002 with the list of proposed Item Unique Identification (IUID) marked components for each HYEX. The meeting shall focus on reviewing the following:

1. Contract terms and conditions
2. Data requirements
3. Required specifications
4. Integrated Master Schedule for armor
5. Test requirements (no classified information)
6. Integrated Logistics Support (ILS) Schedule
7. Logistics product development and management

C.3.2.1.1 ILS Schedule. The approved ILS schedule developed during the Start of Work meeting will become Attachment 0030. The baseline date is 03 March 2011 (modified via P00012). Any change to a date in the ILS Schedule require bilateral agreement via a contract modification.

C.3.2.2 Test Meetings: Pre-Test Meeting, shall last one day and be used to review automotive and ballistic testing, contractor support, and operator training. The initial meeting shall take place at Aberdeen Proving Ground, MD at least 30 business days prior to First Article Test (FAT).

Post Ballistic Test Meeting, shall last one day. They shall be conducted by the Government, and be held at a facility to be identified. A minimum of two post-ballistic test meetings shall be conducted.

C.3.2.3 Program Status Reviews: Program Status Reviews (PSRs) will be held approximately quarterly, beginning 90 business days after the Start of Work meeting until completion of all data deliverables. The meetings will encompass the contractor's production status, data deliverable status, and progress on all logistics requirements. Supportability Integrated Product Team (SIPT) meetings may be part of the PSRs, or separately scheduled. Reviews are held at the US Army Tank-automotive and Armaments Command, Warren MI, and will last up to two days. The government and contractor will jointly schedule the meetings and establish the agenda.

C.3.2.4 In Process Reviews: The Government shall hold periodic IPRs at the contractors facility to review engineering and logistics issues and reach consensus for resolution. For planning purposes, the Contractor should consider participation in approximately four IPRs during the course of the program.

C.3.2.5 Armor Design Reviews: Preliminary Design Review (PDR), shall be held 45 business days after contract award and shall last one day and be used to review the HYEX armor package general design strategy and show a three dimensional (3-D) mock-up of the proposed operator field-of-view. The PDR shall take place at the contractors facility.

Critical Design Review (CDR) shall be held 90 business days after PDR and shall last one day and be used to assess the programs Crew Protection Kit (CPK) design technical maturity level, risk mitigation approach, and determine whether the design is ready to move on to the CPK fabrication stage. The CDR shall take place at the contractors facility.

C.3.2.6 Provisioning Conference: Provisioning Conferences will be held IAW C.6.4.5

**C.4 HYEX CONFIGURATION CHANGES**

C.4.1 Configuration Baseline: The contractor shall be responsible for maintaining configuration control of the HYEXs including the A-Kit or C-Kit Crew Protection Kit. The contractor shall establish a production configuration baseline for the HYEX after successful completion of both the contractors testing and the Government's FAT. This baseline will identify and document the functional and physical characteristics of the HYEXs. The Government acknowledges that the contractor may want to offer to the Government configuration changes being introduced to the contractors commercial production during the term of this contract; however, it's important for the

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Government to assess the impact of any proposed HYEX changes to the logistics and technical requirements established for this program. The contractor is therefore required to notify the Government prior to implementing configuration changes that impact form, fit, or function. The Government can elect to place no additional orders under this contract if the proposed changes are not acceptable to the Government, and the Government will be under no further obligation pursuant to the clause at 52.216-21, Requirements, to order any additional quantities of HYEXs. The Government will issue a no-cost cancellation to the contract.

**C.4.2 Engineering Changes Contractor Initiated:**

**C.4.2.1 Configuration Change Report:** The contractor shall submit requests for approval of changes in the form of a configuration change report for configuration change that impacts form, fit or function to the configuration baseline. The contractor shall submit the report to the Contracting Officer at least 60 business days before the proposed application date, in accordance with CDRL A002. The request for change shall include the following:

- (a) rationale to support the necessity of making the change;
- (b) all test results, planned testing or other information to show acceptability;
- (c) identification of the affected parts and assemblies, drawings, sketches, calculations and other data necessary to define the change you are proposing.
- (d) identification of logistics impact to each of the 10 elements of ILS
  1. Maintenance planning
  2. Manpower and personnel
  3. Supply support
  4. Support equipment
  5. Technical data
  6. Training and training support
  7. Computer resources support
  8. Facilities
  9. Packaging, handling, storage, and transportation (PHST)
  10. Design interface

Refer to AR 700-127 for additional guidance pertaining to the 10 elements of ILS.

- (e) all proposed decreases in contract price; and
- (f) identification, by serial number, of the systems affected

**C.4.3 Government Review:** The Government may require the contractor to perform additional tests to verify acceptability of all proposed changes. The Government will determine the extent of testing up to and including a complete FAT for that change. The contractor shall perform the tests at no additional cost to the Government.

**C.4.4 Responsibility for Failure Due to Changes:** The Government's acknowledgement of the contractor's change does not relieve the contractor from the contractor's responsibility to furnish all items in conformance with the contract performance requirements.

**C.4.5 Responsibility for Cost of Changes:** The responsibility for the cost of changes is as follows:

- (a) This is a firm fixed-price five year requirements contract. There will be no price increases as a result of a contractor initiated configuration change, including model changes. Anticipated model changes shall be priced out at the time of proposal submission and included in the proposed HYEXs price.
- (b) The Government is not responsible for additional testing or software costs associated with changes the contractor submits, including model changes.
- (c) When a change results in reduced contractor costs, the Government will accept equitable reduction in contract price offered by the contractor.
- (d) The Government is not liable for costs the contractor may incur, due to delay in contract performance, as a result of the contractor's requests for change.

**C.4.6 Responsibility for Data:**

(a) The contractor shall submit, at no cost to the Government, revisions to all affected contractual data deliverables, whether they affect form, fit, or function or not, within 90 business days of making the change.

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(b) At the time of a model change, the parties will negotiate a price for changes requested by the Government to data, including logistics, previously submitted under the contract.

C.4.7 Definitions: The definition of Form, Fit and Function are:

Form: Fits and functions in the same way as the item it replaces (interchangeable, substitutable) and may include components that are of different materials than the replaced components, but do not affect fit or function (interchangeable, Substitutable). Replacement, repair, service or maintenance of the item is exactly the same as the item it replaces (non-substitutable).

Fit: Item goes onto, into or attached, to the equipment exactly as the item it replaces.  
No difference in mounting, interface or operation between replaced and replacing parts. There is an exact fit match.

Function: Item operates exactly as the item it replaces, with no functional difference between the old, replaced item and the new, replacing item. When appropriate, the replacing item shall be inspected, replaced, repaired or otherwise maintained in exactly the same method as the item it replaces.

C.4.8 Configuration Baseline Crew Protection Kit: The Government will assume configuration control of the CPK and establish the Product Baseline after successful completion of both the contractor's and the government's portions of the FATs. The Product Configuration Documentation is defined as the documentation required for the product baseline, to a level of detail commensurate with the Government logistics support requirements in accordance with the requirements of this contract. The PCD delivered to the Government to establish and initially release the Product Baseline for the armor kit shall include incorporation of approved changes to date and required corrections resulting from test.

C.4.8.1 Configuration Control CPK/SAS: The Contractor shall propose changes to the armor kit product configuration baseline via the submission of Engineering Change Proposals (ECPs), Value Engineering Change Proposals (VECPs), or Requests for Deviations (RFDs) in accordance with the below requirements. Sufficient supporting data to evaluate each proposed change, which includes, but is not limited to the requirements in C.4.2, shall be submitted with each request. The Contractor shall e-mail requests for ECP Numbers to the Government Configuration Data Management representative.

C.4.8.1.1 Engineering Changes - Contractor Requested: The Contractor shall submit ECPs in accordance with DI-CMAN-80639C (CDRL A003) and Data Delivery Description (DDD) for ECPs, Attachment 003, immediately upon determination of a need for such changes. Changes to CAD data shall be reflected as CAD mark-ups or "preliminary revisions. Changes to non-CAD data shall be described on a Notice of Revision (NOR) for each affected-drawing in the ECP in accordance with DI-CMAN-80642C (CDRL A004) and the DDD for NORs, Attachment 004. The Contractor shall not implement any ECP changes prior to Government ECP approval. The Contractor shall not incorporate any ECP into the end item hardware without prior written approval of the PCO.

C.4.8.1.1.1. The government may require the contractor to perform additional tests to verify acceptability of any proposed change. The government will determine the extent of testing up to and including a complete FAT for that change. The contractor shall perform the tests at no additional cost to the government.

C.4.8.1.2 Engineering Changes Government Directed: In the event the Government desires a change to the armor kit configuration, the PCO will request, in writing, a technical/price proposal from the Contractor. The Contractor shall submit ECPs in accordance with DI-CMAN-80639C (CDRL A003) and Data Delivery Description (DDD) for ECPs, Attachment 003. Changes to CAD data shall be reflected as CAD mark-ups or preliminary" revisions. Changes to non-CAD data shall be described on a Notice of Revision (NOR) for each affected drawing in the ECP in accordance with DI-CMAN-80642C (CDRL A004) and the DDD for NORs, attachment 04.

C.4.8.1.3 Value Engineering Change Proposals (VECPs):

The Contractor shall prepare VECPS in the same manner as Class I ECPs.

C.4.8.1.3.1 The Contractor shall prepare and submit an Engineering Release Record (ERR) and submit an ERR package for each approved armor kit ECP in accordance with the ERR requirements of this contract (CDRL A005).

C.4.8.2 Configuration Control-Variances HYEX and CPK/SAS: Requests for Deviations (RFDs). Contractor desire to temporarily deviate from or waive requirements of the HYEX or CPK during production shall be submitted as RFDs, prepared in accordance with CDRL A006 and the Data Delivery Description (DDD)-RFD, Attachment 005. RFDs shall be properly classified in accordance with the classification requirements in the DDD-RFD. Critical RFDs are not allowed. Recurring deviations or deviations effecting a change to the PCD may be rejected by the Government and returned for resubmission as a formal Class 1 ECP.

C.4.8.2.1 Effectivity Certification: The Contractor shall maintain the original effectivity point certification on file. This information shall be made available to the Government upon request and RFDs affecting the CPK shall be reflected in the armor kit Configuration Status Accounting (CSA) Reports (CDRL A002).

C.4.8.3. Configuration Status Accounting (CSA) CPK/SAS: The Contractor shall provide a CSA report in accordance with DI-CMAN-81253A (CDRL A002). This information shall be recorded and maintained by the Contractor for the term of this contract. As applicable, CSA

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reports shall include, but are not limited to, status of changes and deviations, status of resulting action items, PCD affected by proposed changes and deviations, effectivity and incorporation status of approved changes and deviations, ERRs pending submittal, and status of submitted ERRs.

C.4.8.4. Configuration Identification CPK/SAS: The Contractor shall perform data management, provide the configuration documentation to document the physical and functional characteristics of the armor kit, establish baselines for configuration control, and assign product and document identifiers as required by this contract. (CDRL A002).

C.4.8.4.1. 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 the vehicle by which the Contractor initially delivers new PCD to establish the product baseline (i.e., initial release"), and delivers revised PCD implementing approved changes to the existing Product Baseline (i.e., change release"), subsequent to a Government-approved ECP.

C.4.8.4.1.1 Deleted

C.4.8.4.1.2. The Contractor shall prepare and submit a digital initial release ERR package in accordance with DI-CMAN-80463C (CDRL A005) for Government approval to initially release (incrementally or in whole) the Product Baseline armor kit TDP (with required A-Kit data per C.12). The Contractor shall also submit change release ERR packages incorporating changes to the Product Baseline for each Government-approved ECP. The ERR number used for change release shall be the same as the Government-approved ECP number. An ERR is required for each drawing and model or group of drawings and models submitted to the Government for approval and formal release. The Contractor shall prevent premature release of a PCD related to an ECP until the Government has approved the ECP and subsequent ERR. Multiple ECPs on one ERR is not allowed. The revision history description for all PCD shall include the applicable ERR Number authorized to release the data.

C.4.8.5 Configuration Data Management: The Contractor shall assign a unique identifier to PCD and utilize disciplined version control in managing digital data. The Contractor shall retain all Government-approved revisions (versions) of each document and model representation to provide a traceable history in order to access the correct revision of an item of data when needed. The content of a document and model revision is fixed once the Government approves it. Changes are allowed only by a superseding document revision (via Government-approved ECP) and subsequent approval of the new revision by the Government (via ERR). The Contractor shall insure that all representations (i.e., hard copy, raster, Adobe PDF, native CAD, neutral CAD, etc.) of a single version or revision of PCD, delivered to the Government for approval and subsequently maintained by the Contractor for the term of this contract, are identical. The terms version and revision as used herein are interchangeable (CDRLs A003, A004, A005).

C.4.8.6.1 End of contract: The Contractor shall transfer all master PCDs to the Government immediately upon completion of this contract.

C.5 HYEX HAND OFF - PRODUCTION

Upon each delivery, the contractor shall hand-off all equipment deliverable under this contract to each gaining unit. The contractor shall perform the hand-off and activate the vehicle warranty (if applicable, see sub paragraph (d) below). The contractor shall deliver all the vehicles ready to operate prior to New Equipment Training, C.7.2.2.

(a) The contractor shall re-assemble any vehicle to a fully operational configuration if the vehicle is shipped with any components removed. The contractor shall provide all the tools and equipment necessary to complete the re-assembly.

(b) The contractor shall provide a complete inventory of material shipped with the vehicle, e.g., technical publications, special tools, initial service packages.

(c) The contractor shall provide one-hour familiarization for 6-8 people from the receiving unit so they can safely move the vehicle until full training is conducted. Familiarization includes operator start-up, operating and shut down procedures, safe operations, and daily and weekly service locations and checks.

(d) At the time of hand-off, the contractor shall activate the warranty (if applicable), which includes stamping the effective date (date of delivery to gaining unit) on the vehicle warranty data plate. If the Warranty date has already been stamped on the data plate due to the warranty becoming effective prior to vehicle hand-off (See paragraph C.13 Warranty)the contractor shall explain to the gaining unit the period of warranty coverage remaining on the individual machine. This shall include discussing with the unit the terms and details of warranty administration, and pointing out the warranty information included in the TMs. The contractor shall prepare a report which contains the warranty implementation date by vehicle type, vehicle serial number, shipping destination, and Department of Defense Activity Address Code (DODAAC) in accordance with CDRL A007.

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## C.6 LOGISTICS

**C.6.1 Logistics Management:** The contractor shall manage and develop a logistics support package for the HYEX program, and co-chair government scheduled Supportability Integrated Product Team (SIPT) meetings (C.3.2.3) approximately quarterly. The contractor shall appoint an ILS Manager responsible for the entire logistics scope of this contract, on a level commensurate with the Engineering Manager. The Contractor shall present their ILS schedule at the start of work meeting as well as their integrated support plan for development and management of all logistics products. The contractor shall plan and develop an update (Update 1) to the logistics support package (MAC, provisioning, technical manuals, training and packaging) to start 48 months after contract award. A separate ILS schedule shall be jointly developed for this update. Logistics Management for the armor effort shall be separately developed from the base vehicle.

**C.6.2 Integrated Logistics Support (ILS) Development:** The contractor shall conduct Supportability Analyses to develop logistics products described in this contract. The contractor shall use MIL-PRF-49506, Performance Specification, Logistics Management Information (LMI), in identifying content, format, delivery and related guidance for logistics data except as otherwise identified in this contract. The contractor shall submit documentation on the required due date as detailed in the applicable SOW paragraphs and CDRLs. The contractor shall validate all documentation prior to submittal to the Government. Government receipt of data deliverables does not constitute acceptance. Government acceptance of data deliverables hinges on the completeness, accuracy, compatibility of submitted documentation, and the applicable military standards and specifications.

**C.6.2.1 Maintenance Planning:** The contractor shall conduct Maintenance Planning to determine the maintainability characteristics of the HYEX. The system will use the 2-level maintenance concept in accordance with AR 750-1, Army Materiel Maintenance Policy. The contractor shall analyze the operational, maintenance and support function of the system.

**C.6.2.1.1 Maintenance Analysis:** The supportability analysis shall be documented in the contractors format as an LMI summary entitled Maintenance Analysis, and will identify the maintenance functions, level of maintenance, manpower, spare and repair parts and support equipment required for each replaceable and repairable item. The maintenance analysis shall include a maintenance task file documented in the contractors format, and will serve as source data for development of the Maintenance Allocation Chart (MAC), Provisioning Technical Documentation (PTD), technical manuals and Army Manpower and Requirements Criteria (MARC). The maintenance analysis shall be documented in end item hardware breakdown sequence, using LSA Control Numbers (LCNs). Instructions are contained in Attachment 006 (LMI Maintenance Analysis). The Maintenance Analysis shall be delivered IAW CDRL A008.

**C.6.2.1.1.1. Draft MAC:** A preliminary report formatted and containing all the elements of a MAC shall be prepared as part of the draft Maintenance Analysis review.

**C.6.2.1.1.2 National Maintenance Work Requirement (NMWR) Candidate List:** The NMWR candidate list shall be a product of the Maintenance Analysis (C.6.2.1). All components coded for repair at the sustainment level of maintenance with a unit price in excess of \$1000 will be a NMWR candidate. The contractor shall annotate these components on the Maintenance Analysis and provide them as a separate list at the first Maintenance Analysis review. The Government will review and approve the final list of NMWR candidates at the final Maintenance Analysis review.

**C.6.2.1.1.3 Support Equipment Tools and Test Equipment (STTE):** The contractor shall deliver a list of Support Equipment Tools and Test Equipment for the HYEX. The source data for this list will be the Maintenance Analysis, performed per paragraph C.6.2.1. The list shall be in tabular form and shall identify special tools not contained in U.S. Army Supply Catalogs. A list of authorized Supply Catalogs (SCs) that contain common tools, and other SC information will be provided at the Start of Work meeting. Maximum use of common tools, support equipment, and Test, Measurement, and Diagnostic Equipment (TMDE) normally organic to the user is required. If a required item is not contained in the SCs provided then the contractor shall provide the proposed alternative item to the Government. The Government will decide whether or not the contractor proposed alternative item will serve as a suitable, and effective replacement for the item in question. The list shall provide Nomenclature, Cage Code (CAGEC), National Stock Number (NSN), if assigned, Part Number (PN), level of maintenance, and price of each item on the list. The STTE list shall be delivered in accordance with CDRL A009.

**C.6.2.1.1.3.1 New TMDE items,** those not identified in U.S. Army Supply Catalogs may require special source and calibration documentation in order to update/ provide data for possible inclusion to the TMDE register (DA Pam 700-21-1). The contractor shall provide all required data for all new TMDE.

://www.army.mil/usapa/epubs/xml\_pubs/p700\_60/head.xml

**C.6.2.1.1.3.2** The following paragraphs are included to clarify special tools for Army use. Special tools are not identified as components in a Sets, Kits, and Outfits (SKO) SC. Special tools are:

(a) fabricated tools that are made from stocked items of bulk material, such as metal bars, sheets, rods, rope, lengths of chain, hasps, fasteners, and so forth. Fabricated tools are drawing number controlled and documented by LCNs in Repair Parts and Special Tools Lists (RPSTLs) and located in Technical Manuals (TMs) as appendices. Fabricated tools are used on a single end item.

(b) tools that are supplied for military applications only (e.g., a cannon tube artillery bore brush) or tools having great military use but having little commercial application;

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(c) tools designed to perform a specific task for use on a specific end item or on a specific component of an end item and not available in the common tool load that supports the end item/unit (e.g., a spanner wrench used on a specific Ford engine model and on another engine in the Army inventory).

(d) (Incorporated via modification P00006) The General Mechanic's Tool Kit (GMTK), NSN 5180-01-548-7634 and the Forward Repair System (FRS), NSN 4940-01-533-1621, are the only approved government supply catalogues (SC). Any tools not provided in the GMTK and FRS will be considered a special tool. The contractor shall provide the specials tools outlined in the STTE list that was developed in accordance with section C.6.2.1.1.3 as a Verification Special Tools Kit for use during the government verification process. During the government verification process, the government will review and make a final determination on the contents contained in the Verification Special Tool Kit. Attachment 0032 Verification Special Tools Kit.

C.6.2.1.1.4 Critical Stockage List (CSL): The Contractor shall deliver an initial critical stockage list for the HYEX concurrent with the maintenance analysis (C.6.2.1.1). The Government will provide comments within 30 business days. The contractor shall deliver a final firm fixed price critical stockage list (CSL) concurrent with the first provisioning conference. The items on the CSL are directly related to the provisioning effort required per this contract in that all procurable parts are required to be provisioned and are also required to be on the priced parts list required per this paragraph. The critical stockage list shall also match the Bill of Materials (BOM) for the HYEX to the extent the parts are applicable. The Government intends to procure these parts to support initial fielding of the HYEX. The CSL shall be prepared and submitted in accordance with Attachment 007 and CDRL A010.

C.6.2.1.1.5 New tasks required for training: The contractor shall select and annotate each operator and maintenance task in the task analysis where the contractor recommends the task be added to the Training and Doctrine Command (TRADOC) Program of Instruction (POI) and/or New Equipment Training (NET) for each specific MOS. A POI will be provided by the Government for each anticipated MOS at the Start of Work Meeting.

C.6.2.1.2 The contractor shall facilitate a joint Government-contractor conference at the contractors facility to review the initial maintenance analysis in accordance with the schedule developed at the Start of Work meeting.

C.6.2.1.3 NMWR Data Summary: The contractor shall perform a supportability analysis called a NMWR data summary for each component on the Government approved NMWR candidate list. The LMI summary shall be in the contractor's format, and shall be documented in accordance with Attachment 008 (LMI NMWR Data Summary). The contractor shall also indicate for each NMWR candidate whether the item is currently available as a remanufactured, rebuilt or otherwise refurbished component. The NMWR Data Summary shall be delivered in accordance with CDRL A011. The SOW for NMWR development will be specified after Government approval of the NMWR Data Summary.

C.6.2.1.4 Equipment Control Record (DA Form 2408-9): The contractor shall prepare a DA Form 2408-9, Equipment Control Records (Government furnished form) for each vehicle it delivers (Attachment 029). The contractor shall prepare the form in accordance with the instructions in paragraph 5-7 c (3) Acceptance and registration of DA PAM 750-8, to report acceptance of the each HYEX into the U.S. Army inventory. The contractor shall have the Defense Contract Management Command (DCMC) Quality Assurance Representative (QAR) complete blocks 22 and 23 as the person accepting the item into the Army inventory. After the DCMC QAR completes blocks 22 and 23, the contractor shall distribute the DA Form 2408-9 as follows:

(a) Submit the control copy (copy # 1) within five business days to:

Commander  
USAMC Logistic Support Activity  
ATTN: AMXLS-RRA  
Redstone Arsenal, AL 35898-7466

(b) Submit the TACOM copy (copy #2) within five business days to:

Commander  
U.S. Army Tank-automotive and Armaments Command  
ATTN: AMSTA-LC-CJCB/MS 326  
6501 East 11 Mile Rd.  
Warren, MI 48397-5000

(c) Place Log Book copy (copy # 3) in a dry, protected location, secured in the operator station, and shipped with each vehicle.

**C.6.3 Diagnostics:**

C.6.3.1 Electronic Diagnostic Testability Analysis: The contractor shall perform a testability analysis of the HYEX diagnostics capability, to include number and types of diagnostic tests available for all HYEX components, assemblies, systems and subsystems. The analysis shall specify number and types of required TMDE, as well as a brief narrative description of the benefits to be derived from each diagnostic test. The report shall include a description of on-board electronic diagnostic systems that may be interrogated for the purpose of maintenance and troubleshooting via an on-board diagnostic display screen. The report shall also contain all standard data,

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data descriptions and error codes necessary to communicate with the electronic control module (ECM)/electronic control unit (ECU) and to maintain the electronically controlled subsystems. The contractor shall provide data, which specifies limits for all parameters, and how to interpret data outside limits. The contractor shall maximize the use of embedded Built-\-in-Test (BIT)/ Built-in Test Equipment (BITE) diagnostic capabilities, and fully document and support embedded system software. All data buses and diagnostic connectors shall also be identified in detail. The analysis shall be delivered in accordance with CDRL A012.

**C.6.3.2 Analog Diagnostic Testability Analysis:** The contractor shall perform a testability analysis of the HYEX. The analysis shall include documentation showing complete analog fault isolation capabilities and troubleshooting methodology for the HYEX. The contractor shall refer to the list of proposed tests that are referenced in Appendix C of the DCA Test Guide (Report #CR-82-0588-003 Rev 1) enclosed as Attachment 009. The contractor can add or delete tests from Appendix C as necessary to best obtain HYEX diagnostics. The contractor shall also provide the original equipment manufacturers recommended minimum and maximum parameters for all Diagnostic Connector Assembly (DCA) and Transducer Kit (TK) monitored components. The contractor shall specify level of difficulty and time required to physically access test points and type of TMDE equipment. The testability analysis shall be delivered in accordance with CDRL A012.

**C.6.3.3** The contractor shall provide software required to interface, retrieve, and interpret the HYEXs systems diagnostics data, as identified in paragraph 3.4.1.1 of the PD. Software shall not contain proprietary restrictions or run-time fees. The contractor shall provide updates to this software until contract completion.

**C.6.4 Provisioning:**

**C.6.4.1 Provisioning Parts List (PPL):** The contractor shall develop and deliver LMI provisioning data (PPL) for all parts, special tools, BII, COEI, Expendable/Durable and additional Authorized List (AAL) items identified on the HYEX. Each incremental submission shall have at least 800 lines, but no more than 1500 lines, unless approved in advance by the Government. Each incremental submission shall include at least one major assembly. Prime part numbers and Commercial and Government Entity (CAGE) Codes will reflect the original equipment manufacturers information unless that part is modified, changing form, fit, and function. PPL shall be prepared and submitted in IAW MIL-PRF-49506, LMI Summary Worksheet (Attachment 008), LMI Data Provisioning Requirements Worksheet (Attachment 010), CDRL A013 and DI-ALSS-81529.

**C.6.4.2 Engineering Data for Provisioning (EDFP):** Provisioning illustrations shall consist of illustrations such as company drawings or commercial parts book pages that clearly identify each new item, the items part number and CAGE code, physical characteristics and function of the item. The Contractor shall furnish an illustration that is legible and representative for each P source-coded part number being provisioned. Illustrations shall be annotated with the affected Provisioning Line Item Sequence Number (PLISN) and Provisioning Contract Control Number (PCCN) for the system. Illustrations are not required for items accompanied by a copy of provisioning screening which indicates this item has previously been assigned a valid national stock number. EDFP shall be submitted in accordance with CDRL A014.

**C.6.4.3 Provisioning Master Record (PMR):** The contractor shall submit LMI provisioning data (PPL) either on-line or electronically. The Government will discuss each method at the Provisioning Guidance Conference as part of the start of work meeting (C 3.2.1). All submissions of the LMI PPL data must be compatible with TACOM Commodity Command Standard System (CCSS)/Provisioning on Line System in accordance with Automated Data Systems Manual (ADSM) ADSM 18-LEA-JBE-ZZZ-UM-06 and must pass all CCSS edits. The contractor shall correct all rejects within 5 business days.

**C.6.4.4 Provisioning Screening:** The contractor shall conduct provisioning screening on each item on the PPL for standardization or NSN identification of all P source-coded items. This screening will be used to select valid part numbers, NSNs, and current unit of measure/issue prices for provisioning purposes. The contractor shall screen common hardware items (nuts, bolts, screws, washers, lock washers, rivets, etc.) by technical characteristics. The screening results must be available to review at each provisioning conference. The contractor shall conduct provisioning screening using FLIS, WEBFLIS, or by batch submittal part numbers to DLIS.

**C.6.4.5 Provisioning Conferences:** The Contractor shall host a provisioning conference not to exceed 5 business days for each incremental review. Provisioning data presented for review shall include complete assemblies. The contractor shall provide at least two Internet connections (Ethernet/wireless) for use by Government attendees. The contractor shall provide advanced copies of the PPL data to each conference attendee per CDRL A014.

**C.6.5 Technical Publications:** The contractor shall develop New equipment technical manuals to support the HYEX. The Technical Manuals preparation requirements and the delivery requirements are described below. Information in the Technical Manual(s) shall be developed in accordance with data obtained from the maintenance analysis (see C.6.2.1.1). Procedures shall be developed in the same sequential order as the Government approved two-level maintenance allocation chart (MAC). All publications shall be developed in accordance with Attachment 011, General Publications Requirements. The RPSTL(s) shall be developed in accordance with Attachment 011, General Publications Requirements and Attachment 012, Repair Parts and Special Tools List (RPSTL) CCSS development and Provisioning on-Line System (POLS) Requirements.

**C.6.5.1** The following manuals shall be developed:

TM 5-3805-294-10 Operator Manual

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TM 5-3805-294-23 Field Maintenance Manual  
TM 5-3805-294-24P Field Maintenance RPSTL  
LO 5-3805-294-13 Lubrication Orders  
TB 5-3805-294-13 Warranty TB  
TB 5-3805-295-13&P Supplemental Armor Set

C.6.5.1.1 The operator manual shall be prepared and delivered in accordance with MIL-STD-40051-2, CDRL A015, and Attachment 013, TM Matrix A-II.

C.6.5.1.2 The maintenance manual shall be prepared and delivered in accordance with MIL-STD-40051-2, CDRL A016, and Attachment 014, TM Matrix A-IV.

C.6.5.1.3 The RPSTL manual shall be prepared and delivered in accordance with MIL-STD-40051-2, CDRL A017, and Attachment 015, TM Matrix Table A-VI.

C.6.5.1.4 The warranty TB shall be prepared and delivered in accordance with MIL-PRF-63034, CDRL A018, and Attachment 016, Warranty TB Requirements.

C.6.5.1.5 The LO manual shall be prepared and delivered in accordance with MIL-PRF-63004, CDRL number A019, and Attachment 017, LO Matrix.

C.6.5.2 The separate Supplemental Armor Set Technical Bulletin (TB) shall be identified and delivered as follows: CDRL A020, Attachment 018 (Supplemental Armor Set TB for HYEX).

C.6.5.3 Preliminary Technical Manual (PTM) submission(s) shall be delivered as required in CDRL A015 through A020 of this contract. The PTM submission (s) must be a complete publication as required in MIL-STD 40051-2 and AR 25-30. Each PTM shall include all required content per the CDRLs and Attachments. The Maintenance (-23) and RPSTL (-23P) manuals identified above shall be divided into volumes if the page count for that manual exceeds 1500 pages (750 sheets.)

C.6.5.4 Final Reproducible Copy (FRC) submission(s) shall be delivered as required in CDRL A015 through A020 of this contract. The FRC submission(s) must be a complete publication as required in MIL-STD 40051-2 and AR 25-30. The FRC shall include all required content per the CDRL and Attachment A015 through A020. The FRC shall include final resolution of all comments and recommendations made as a result of all testing, Government review, and results from the contractor validation, Government verification and all maintenance literature conferences. If errors are found in the FRC, it shall be considered a PTM until the contractor corrects the errors. After Government approval of the FRC, it is submitted for printing and distribution by means of electronic format.

C.6.5.5 Data Rights: The contractor shall furnish copyright releases for all copyrighted data used to develop the technical manual(s) (see DFARS 227.7103-9) to allow Distribution Statement A: Approved for public release; distribution is unlimited. to be placed on the TM cover(s) and title block page(s). The contractor shall ensure the government has the unlimited right to use and distribute the TM(s) and electronic data files delivered under this contract in hardcopy and by means of an electronic media. Refer to DOD FAR Supplement, Warranty of Data; paragraph 252.246-7001 for warranty of data requirements and invocation stipulation.

C.6.5.6 Digitized Delivery: The contractor shall submit digitized text and graphics (MS Word or equivalent) of the technical publications in accordance with MIL-STD 40051-2. The digitized data shall reflect the content of the text and graphics contained in the FRC accepted by the Government.

C.6.5.7 Portable Document Format (PDF): The contractor shall submit a PDF file (Adobe Acrobat or equivalent) of each technical publication produced in accordance with MIL-STD 40051-2, the TM Requirements Matrix (-ices), this SOW, CDRLs A015 through A020 and all attachment(s). The PDF file(s) shall be editable, intelligent, and linkable electronic files. The PDF file(s) shall reflect the content of the text and graphics contained in the FRC(s) accepted by the Government.

C.6.5.8 Quality Assurance: The contractor shall be responsible for the quality of the equipment publications deliverables. All delivered TM information shall be complete, technically accurate and useable by US Army soldiers. The contractor shall develop and use a quality assurance operation in accordance with ISO 9001:2000. This operation shall include a quality assurance plan, periodic QA reviews by persons different than those preparing the TMs, maintenance of QA records, TM development process improvement, and data controls to insure that current, accurate engineering and parts information is available to TM preparers. The Government will assess the quality of the deliverable in accordance with Attachment 019, Equipment Publication Defects, and CDRL A021. Government representatives have the right to review and comment on the contractors QA plan, records, and processes.

C.6.5.9 Meetings:

C.6.5.9.1 Start of Work Meeting/Guidance Conference: This meeting shall take place at a Government facility (unless otherwise specified by the Government) within 30 business days after contract award (DACA) to clarify all matters relating to development, preparation and submission of contract data deliverables. The contractor shall identify all questions and discuss all TM requirements. Additional guidance will be available through In-Process Review (IPR) meetings.

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C.6.5.9.2 In-Process Reviews (IPR): IPRs will be held at the discretion of the Government. During preparation of equipment publications these IPRs will be used to clarify requirements, provide guidance to the Contractor and to ensure that the publication is written to conform with this SOW. The contractor shall provide properly formatted representative samples of each section for every TM required on CDRLs A015 through A020. The samples will be reviewed for compliance with Attachment 019. IPRs are not a part of the Verification Conference and shall not be used in place of the Verification Conference. The Government will notify the Contractor 30 business days prior to each IPR. IPR locations shall be as specified by the Government. If scheduled at the contractor's site, the contractor shall make available adequate space, facilities, and personnel for Government scheduled IPRs at no additional cost to the Government. For planning purposes, the Contractor should consider participation in approximately four IPRs during the course of the technical manual process.

C.6.5.9.3 Contractor Validation: The Contractor shall conduct a Validation of the initial submittal PTM produced in accordance with paragraph C.6.5.1 of this SOW, CDRLs A015 through A020, and Attachments General Publications Requirements and Repair Parts and Special Tools List (RPSTL) Requirements. The Validation effort shall be held at the contractors facility unless otherwise specified by the contracting activity. The contractor shall notify the Government no less than 30 business days prior to start of the Validation. The Government reserves the right to observe the Validation effort and will schedule observers as needed. The Contractor shall submit a Validation Report IAW CDRL A022.

C.6.5.9.4 Government Verification: Verification is a Government responsibility. The contractor shall make available the necessary personnel, facilities, equipment, tools, test equipment, supplies, and pertinent documents required for Government Verification. The Verification Conference shall be scheduled in accordance with the government approved ILS schedule. Verification shall take place at the contractors facility unless otherwise specified by the contracting activity. The contractor shall consider Verification support and conduct in the pricing proposal. The Contractor shall take corrective action resulting from the Verification and furnish the FRC, digitized and PDF submissions of the Technical Manual(s), no later than the date specified on appropriate CDRLs.

C.6.5.9.5 Logistics Demonstration (LD) Support: (Change incorporated via modification P00006)

The government plans to conduct a separate HYEX LD after the verification for the Technical Manual (TM) 5-3805-294-24 IAW the government approved ILS schedule. The LD shall be performed at the contractors facility. The LD will be hosted by the contractor and will be government managed, contractor supported.

C.6.5.9.5.1 The contractor shall develop a LD Plan IAW CDRL A036, using DA PAM 700-56, Logistics Supportability Planning and Procedures in Army Acquisition, as a reference. In addition to the data required by the Data Item Description (DID), the recommended format is:

- a) General
- b) Scope
- c) System description
- d) LD strategy
- e) Participation organizations, responsibilities, and milestones for delivery of SSP
- f) Procedures, detailed plans, and milestones for demonstration activities
- g) Reports (describe who will provide input and due dates)
- h) References
- i) Acronyms
- j) Distribution

C.6.5.9.5.2 The LD shall be no more than 30 calendar days in duration (20 working days, Mon-Fri). The LD shall be conducted using one production representative Type I HYEX. The contractor shall make available the necessary personnel, facilities, equipment, tools, test equipment, supplies and pertinent documents required for LD. Any changes to the TMs will be performed during the LD in real-time. (Any minor changes to illustrations to support narrative information can lag by 24 hours). However, art markups will be provided in real-time, as they occur. The government will perform Operator and Maintainer Preventative Maintenance Checks and Services (PMCS) during the LD. In addition, the contractor shall develop a method of inserting non-destructive faults into the vehicle system for those applicable troubleshooting tasks. The government will provide a specific list of troubleshooting tasks to perform during the LD. The contractor shall identify the applicable work packages and provide marked up copies for the TM validation for use during the LD. The contractor shall insert faults during performance of the applicable work packages as identified by the government.

C.6.5.9.5.3 The contractor shall develop a LD Report after the conclusion of the LD IAW CDRL A036, using DA PAM 700-56, Logistics Supportability Planning and Procedures in Army Acquisition, as reference. The LD Report shall be in the same format as the LD Plan and include the LD strategy, details on the conduct of the LD, data collection, analysis results, all quantitative and qualitative findings, and a description of all necessary follow-on actions. The LD Report findings may come from data existing prior to the LD, development and operational test data, and data derived from the LD.

C.6.5.10 Supplemental Armor Set Technical Bulletin (TB):

The Contractor shall prepare, validate and deliver a separate Supplemental Armor Set Technical Bulletin to support the use, operation, maintenance, preparation for shipment or storage instructions, parts and installation and removal of the unique Supplemental Armor Set

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as applied to the vehicle system(s) identified in this contract. The TB shall be prepared and delivered in accordance with Attachment 011, General Publications Requirements and Attachment 018, TB Requirements Matrix, and CDRL A020.

C.6.5.10.1 The Technical Bulletin shall be prepared in accordance with Exhibit General Publication Requirements and Exhibit Repair Parts and Special Tools List Requirements, MIL-STD 40051-2 and MIL-HDBK 1222C. The MIL-STD and MIL-HDBK are available at <http://www.logsa.army.mil>. The Supplemental Armor Set TB shall include Supplemental Armor Set installation and removal instructions, Operators instructions, Field Maintenance and related Repair Parts and Special Tools List (RPSTL) data. The Commodity Command Standard System (CCSS) based RPSTL data shall be included in the TB 5-3805-xxx-13&P as part of the Supporting Information Chapter/work package.

C.6.5.10.2 The Supplemental Armor Set TB shall include an Operator and a separate Field Maintenance Preventive Maintenance Checks and Services (PMCS) and a two level Maintenance Allocation Chart (MAC) supporting the Supplemental Armor Set. The Operator and Unit PMCS and the MAC and all related data shall be tailored and confined to the Supplemental Armor Set as applied to the vehicle(s) identified in this contract and resulting vehicle configuration changes. All other (non Supplemental Armor Set) operator and maintenance instructions and RPSTL data shall be supported by references to the non Supplemental Armor Set vehicle TM series. The contractor shall be responsible for all changes to the Supplemental Armor Set TB and as applied to the vehicle configuration resulting changes from testing and reviews; changes shall be at no additional cost to the Government.

C.6.5.10.3 All Supplemental Armor Set instructions in the TB shall be in the form of fully illustrated, detailed start step to end step instructions written in installation order. The tasks, RPSTL, and MAC shall follow this same general order. The Supplemental Armor Set installation instructions shall be written to maximize the efficiency of the installation process. The detailed removal instructions shall be in the same form as the installation instructions. Simply stating reverse the installation instructions or similar is not acceptable. The step by step installation and removal instructions shall be included in the back of the Supplemental Armor Set TB as part of the Supporting Information Chapter.

C.6.5.10.4 All instructions shall contain clear illustration of each step. Instructions shall include required modification dimensions or templates as needed to install the Supplemental Armor Set on the vehicle. Include appropriate Warnings, Cautions regarding welding, drilling or otherwise degrading the integrity of the cab structure. Hardware and armor items which could be installed backwards shall be clearly shown and described in the proper orientation. In particular, the proper handling, storage and cleaning of transparent and opaque armor shall be illustrated and described in detail to avoid damage. The use of digital photos and line art are acceptable; the use of color is not acceptable. Multiple views of the after Supplemental Armor Set installation vehicle configuration shall be illustrated in the TB.

C.6.5.10.4.1 Contractor shall develop instructions for the supplemental armor describing the packaging process. C-Kit packaging shall include all the components for the armor cab. The contractor shall devise instructions, plus measures for prevention of corrosion and deterioration, also include first in last out loading procedures and applicable blocking and bracing procedures. The instructions shall include procedures for stowing the HYEX cab components that are removed from the vehicle before the C-Kit can be installed and placed into the same container. Validation testing of the kit should be IAW paragraph C.8.3.1.

C.6.5.10.5 The TB shall be subject to validation and verification in accordance with procedures in paragraphs C.6.5.9.3 and C.6.5.9.4 above.

C.6.5.10.6 The TB Distribution Restriction Statement for the front cover and Title Block Page shall be Distribution Statement C.

Distribution Statement C: Distribution authorized to the U.S. Government agencies and their contractors only per the CS & CSS Armoring Systems Security Classification Guide effective 6 April 2007. This determination was made on November 4, 2005. Other requests for this document must be referred to PM CE/MHE Attn: SFAE-CSS-FP-C, (Bldg 230) 6501 East 11 Mile Road, Warren, MI 48397.

C.6.5.10.6.1 The contractor shall destroy all paper copies and electronic files related to the Supplemental Armor Set and/or the contractors related TB upon Government acceptance of final publication deliverables. The contractor shall sign and submit a written statement that all paper copies and electronic files have been destroyed.

## C.7 TRAINING

C.7.1 Development of Training Materials: The contractor shall develop four training courses, an operator course and a maintainer course for the system, and an operator course and maintainer course for the armor C Kit. The courses shall be developed using the current skills, knowledge and abilities (SKA), of the target audience. The training shall be structured to provide no more than 30% classroom and at least 70% hands-on equipment. The classes will be structured to have a maximum of 12 students.

### C.7.1.1 Training Course Control Outline:

For each course, the contractor shall develop a separate Training Course Control Outline for the Type I HYEX describing the course content (subject, topics, and task), training material, types and duration of instruction, and all resources and support required to conduct training. The Training Course Control Outlines shall contain an introduction, course description data, outline of instruction summary, curriculum outline of instruction, course summary and presentation schedule. They shall be delivered in accordance with CDRL A023.

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**C.7.1.2 Training Materials:** For each course, the contractor shall deliver an Instructor Lesson Plan and a Student Training Guide for the Type I HYEX. The training packages for the system shall contain each element of the training course outline fully developed, finalized and delivered. The training materials for the armor C Kit shall cover both operation of the vehicle with the C Kit installed, as well as installation, inspection, servicing and maintenance of the C Kit. The government can provide sample training materials and outlines at the Start of Work (SOW) meeting. Both operator courses of instruction shall be developed for 40 hours duration. The maintainer course of instruction for the system shall be for 64 hours duration. The maintainer course for the C Kit shall be for 40 hours duration.

(a) **Operator:** The NET Base Vehicle Operator course shall be designed for operators of the Type I HYEX, covering complete operation and safety of the vehicle, loading and unloading for transport, complete tie down for shipment, proper use of tools, equipment, and basic issue items (BII), Operator Preventive Maintenance Checks and Services (PMCS) and trouble-shooting. Training shall be consistent with procedures established in the appropriate vehicle technical manual. At the end of each class, the contractor shall conduct a hands-on performance test for each operator being trained. The contractor shall score each student based on their performance.

(b) **Maintainer:** The NET Base Vehicle Maintainer course shall be designed for the maintainers of the Type I HYEX, and cover minimal operation characteristics, complete field level PMCS, troubleshooting, diagnosis and repair of equipment components to include system unique control systems, engine, fuel, transmission, axle, braking, electrical, hydraulic, pneumatic, and ancillary systems. The course shall be directed toward new technologies and items not currently in the Army system and different from the current system in the field. Training shall be consistent with procedures established in the appropriate vehicle technical manual.

(c) **Armor Package Operator:** The NET Base Vehicle Operator with Armor Kit course shall be designed for the operators of the Type I HYEX. Operator training shall include changes in operation of the equipment due to reduction in visibility and weight with the armor kit installed, limitations to system operations, safety restrictions due to the addition of the armor kit, operator maintenance, and operation of the Emergency Egress System.

(d) **Armor Package Maintainer:** The NET Base Vehicle Maintainer with Armor Kit course shall be designed for the maintainers of the Type I HYEX. Maintainer training shall include installation instructions and changes to maintenance procedures due to the installation of the armor kit.

**C.7.1.2.1 Course Material Format/Media & Deliveries:**

The contractor may submit materials developed and used for conducting Operator and Maintainer Training for Commercial Customers with Supplemental Data/Information added to meet the Armys Requirements. Training Materials may consist of contractor handbooks, in-house training material, pamphlets, training literature, utility manuals, software manuals, maintenance manuals, logic diagrams, schematics, flow block diagrams, equipment description and functional data, testing procedures, visual aids, and other documents suitable for use in development of training programs. Visual aids may consist of videos, slides, transparencies, wall charts, schematics, illustrations, pictures, drawings, and cutaways of components. No classified information is to be included in the training materials. The contractor shall deliver all course control documents and training materials in an editable commercial electronic format: (Microsoft Word for documents and PowerPoint for presentations). Materials submitted must not conflict with the content of the vehicle technical manuals. Training materials shall be developed and delivered in accordance with CDRL A024.

C.7.1.2.2 Deleted via modification P00006.

**C.7.2 Conduct of Training Programs:**

**C.7.2.1 Instructor and Key Personnel Training (I&KPT) Class.** The contractor shall conduct a training class for both operator courses and both maintainer courses using training materials developed under this contract, at a contractor location. Purpose of the classes is to verify training materials developed for NET. The contractor shall provide vehicles, armor kit, equipment, facilities, tools (special and common) and replacement parts consumed during training in accordance with CDRL A024.

**C.7.2.2 New Equipment Training (NET) Classes:** The contractor shall conduct NET classes to support unit handoff. The contractor shall conduct classes at training locations specified by the Government and will be identified on each delivery order. Training dates will be determined by the Government and provided to the contractor not later than 30 business days prior to the beginning of each class. For NET classes in the field, the contractor shall use the fielded vehicle. The contractor shall conduct training with the approved training materials developed under this contract. A maximum of 12 students will attend each class. For OCONUS (contingency) training, there is no limitation on which days during the week or which hours during the day training will be held. The duration of a training class will be no more than 8 hours per day. Each delivery order will specify the training dates, locations, and number of classes. The contractor shall provide a copy of the approved training materials to each student and the unit training officer. The travel costs, if necessary, will be negotiated at the time the delivery order is issued, on a firm-fixed price basis, and not to exceed the Joint Travel Regulation.

**C.7.2.3 Student Training Administration:** The contractor shall prepare and submit the following for each NET class conducted in accordance with CDRL A025:

(a) On the first day of each training class the contractor shall submit a list of students in attendance to the government.

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(b) At the end of the operator class, the contractor shall provide the results of the operator performance test for each student to the unit training officer.

(c) The government will provide the training certificate master file for the contractor to administer. At the end of the class, the contractor shall present each student with a Certificate of Training. The contractor may also administer a corporate certificate if desired.

(d) At the end of the class, each student will complete a class critique. The government will provide a sample critique sheet and the contractor shall administer them. Within ten business days after completion of the class, the contractor shall submit the completed and critiques to the government.

(e) Within ten business days after completion of the class, the contractor shall submit a student roster to the government. The roster shall include the name of the class, start and end date, instructor(s) name and signature, location of the class, student name, military rank (if military), military occupational skill (MOS), home station address, last four number of the students social security, students Army Knowledge Online (AKO) email address, record of daily attendance for each student, and instructors notes.

**C.7.3 Training for Test Personnel for First Article Test (FAT):** (See Section E).

The contractor shall provide one day of training to support government FAT at Aberdeen Proving Ground. Training shall include proper operating procedures, equipment and instrument familiarization, safety precautions, operator and maintainer Preventive Maintenance Checks and Services (PMCS), maintenance tasks, and all necessary materials and equipment required to support testing of the HYEX. A commercial operators manual and training materials shall also be provided to supplement training.

**C.8 PACKAGING DATA DEVELOPMENT**

The contractor shall, for component items pertaining to the HYEX, develop and provide to the Government LMI-packaging data for all provisioned TACOM AKZ managed items (i.e., "P" coded items other than "PR" or "PZ"). The contractor shall provide new or corrected LMI-packaging data for revisions created by a Configuration change. With each data submission, the contractor shall include verification support data for each of the LMI-packaging data items, which shall provide the Government a reasonable means to determine the adequacy of the contractor prepared packaging analysis and data submittal. This shall include item drawings and copies of applicable Material Safety Data Sheets for Hazardous Material items.

C.8.1 Excluded items are those items with packaging data already in the TACOM Packaging File PACQ, FEDLOG, FLIS, and those assigned a Contractor and Government Entity Code (CAGE) of: 1T416, 21450, 80204, 96906, 10060, 24617, 80205, 99237, 80244, 81343, 81348, 81349, 81352, and 88044.

C.8.2 **Packaging/Logistics Data Entry:** The Contractor shall develop, maintain and update packaging data IAW Attachment 020 and CDRL A026. LMI packaging data is required IAW MIL-PRF-49506 and will provide for the entry of information to the computer data base known as the TACOM Packaging Data File. The Packaging Data Entry shall be in an ASCII delimited text format using commas as delimiters. Quotation marks may be used as text qualifiers but are not required.

C.8.2.1 At contractors request, the Government will provide MS ACCESS application to contractor that provides data formatting and edit features for coding of packaging data products IAW MIL-STD-2073-1D.

C.8.3 **Special Packaging Instructions (SPI):** The Contractor shall develop a SPI for each repairable TACOM managed item. The TACOM managed items would include items being considered as National Maintenance Work Requirement (NMWR) candidate items. SPIs developed for engines, transmissions, differentials, transfers, final drives, drive axles, and all HYEX assemblies shall be packaged IAW MIL-PRF-11264. Packaging processes and materials shall be described for cleaning, drying, preserving, unit, intermediate (as applicable), and exterior packing, marking, and unitization. Figures and narrative data shall be developed to describe the form, fit, and function of packaging in sufficient detail for reproduction. The format and content of SPI shall be IAW CDRL A027.

C.8.3.1 Validation testing of SPI candidate shall be in accordance with ASTM D 4169. Standard Practice for Performance Testing of Shipping Containers and Systems and see: Acceptance Criteria 1, Distribution Cycle 18, Assurance Level I for unique components identified as fragile and/or sensitive and not previously tested. Performance Testing may be limited to Test Schedule A (found in ASTM D 4169) (Handling-manual and mechanical), for the first and second handling sequences and Schedule F (found in ASTM D 4169) Testing: Loose Load Vibration. Replicate testing and climatic conditioning is not required. Items with previously approved documented test results may be exempt from validation testing. Test results shall be submitted IAW with CDRL A027.

C.8.4 Any Engineering Change Proposal (ECP) that impacts vehicle and kit configuration packaging and distribution shall be provided by the contractor. The ECP shall be complete and shall include packaging impact statement and assessments for items requiring special handling, storage or condemnation, HAZMAT, shelf life, and transportability problem items. The Contractor shall deliver the packaging impact statement IAW ECP contractual requirements (CDRL A003).

**C.9 TRANSPORTABILITY REPORT**

The contractor shall submit a Transportability Report in accordance with CDRL A029 that includes data on recommended procedures for

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configuring, positioning, and securing the vehicles for transport by trailer, air, and rail car, slinging procedures for lifting the vehicles, and procedures, man-hours and all tools required for disassembly and re-assembly when transported by highway, rail, marine and air.

#### C.10 SAFETY ENGINEERING AND HEALTH HAZARDS

**C.10.1 Safety Engineering Principles and Program:** The contractor shall follow safety engineering practices as established by the industry consensus standards and other pertinent regulations identified in Section 2.1.1 of the PD (Attachment 001). The contractor shall maintain a system safety program in accordance with the Safety System Program Guide, Attachment 021. The contractor shall establish a system safety organization or function with lines of communication between system safety and other functional elements of the program to include overall management. The system safety organization should have the authority, or shall have the means, to acquire the authority for resolution of identified hazards.

#### C.10.2 Safety Assessment Report (SAR):

**C.10.2.1** As a result of system safety analyses, health hazard evaluations such as the Health Hazard Assessment Report, and independent testing, the contractor shall provide an updated safety and health hazard assessment. The safety and health hazard assessment shall identify all safety and health features of the hardware, system design and inherent hazards and shall establish special procedures and precautions to be observed by Government test agencies and system users.

**C.10.2.2** The contractor shall prepare an updated Safety Assessment Report in accordance with CDRL A030 and this paragraph. The contractor shall identify all new Safety and Health Hazards associated with the system and incorporate them into the SAR. In preparing the hazard list portion of the Safety Assessment Report, the contractor shall provide a description and effects of each potential or actual safety and health hazard of the vehicle as well as when the hazard may be expected under normal or unusual operating or maintenance conditions. Identify actions taken to mitigate the risk associated with the hazards and categorize these risks before and after mitigation in accordance with the System Safety Program Guide, Attachment 021. Risks must be identified by hazard severity, hazard probability and risk level. Mitigation actions include recommended engineering controls, equipment, and protective procedures to reduce the associated risk. Include in the SAR copies of the Material Safety Data Sheets (MSDS) for all hazardous materials incorporated into the system. The final updated SAR is subject to TACOM approval. Examples of hazards to be included in this report are compliance issues with regulatory organizations, confined spaces, fire prevention issues, ergonomic hazards, sharp edges/moving parts, physical hazards (heat or cold stress, acoustical energy, etc.), chemical hazards (flammables, corrosives, carcinogens, etc.), toxic fumes (exhaust emission hazards), electrical issues, and noise.

**C.10.2.3** The Contractor shall include the hazards resulting from the application of the Armor Solution in the SAR. Hazards that have severe consequences and cannot be eliminated by design changes shall be clearly identified. An assessment of vehicle stability and an estimation of operational limitations resulting from the addition of the Armor Solution shall be included in the report.

#### C.11 HAZARDOUS MATERIAL MANAGEMENT

The Contractor shall not use hazardous materials in accordance with Section 3.3 of the PD. The contractor shall prepare a Hazardous Material Management Report which, at a minimum, shall identify all hazardous materials required for system production, and sustainment, including the parts/process that requires them. This report should be prepared in accordance with National Aerospace Standard 411, section 4.4.1 per DI-MISC-81397, CDRL A031.

#### C.12 FIELD SERVICE REPRESENTATIVE-TECHNICAL SERVICE SUPPORT

The contractor shall provide Field Service Representatives who will provide technical service support (both CONUS and OCONUS), during contingency and non-contingency operations. The contractor shall provide the man-days of service specified in the delivery order. The effort will include: investigation and diagnosis of problems or issues in the field related to vehicle performance, maintenance, and training. The Contracting Officer shall designate the times and locations of the service to be performed, but will not supervise or otherwise direct the specific activities. The Contracting Officer or authorized representative shall notify the contractor of FSR(s) travel requirements at least 10 business days in advance for CONUS or 20 business days in advance for OCONUS travel. Instructions and established itineraries will be provided as necessary. For this contract, CONUS is defined as any location in the continental United States. OCONUS is defined as any location outside the continental United States. Contingency is defined as operations in locations in support of deployments in hostile areas (Kuwait, Iraq and Afghanistan). Non-contingency is defined as operations in fieldings deployments in support of normal operations in CONUS or OCONUS (e.g. Germany).

**C.12.1 Field Service Representative (FSR):** The contractor shall provide FSRs who are thoroughly experienced and qualified to advise and make recommendations, and to orient, and instruct key Government personnel with respect to operation, maintenance, and repair of the HYEXs and their components.

**C.12.2 FSR Personal Data:** The contractor shall make available personal data related to the FSRs including documentary evidence such as birth certification and such evidence as is requested by the local Government installation or area in which services are to be performed. The contractor shall request approval for each FSR and include a statement of qualification for each representative. Government approval shall be limited to granting or denying security clearance for the person named. The contractor shall contact local

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personnel and comply with local procedures. The local personnel will be identified in the delivery order.

C.12.3 Man-Days: The contractor shall price man-days of service for locations in both CONUS and OCONUS. The Government reserves the right to change the number of days of services furnished to the extent necessary to conform to requirements and the Government shall be obligated to pay for only actual services used. Each change in quantity shall be at the established man-day rate.

1. The man-day rate does not include travel costs (airfare, local car rental, lodging, meals, and incidental expenses) of the FSR while performing the services. The travel costs will be negotiated prior to the issuance of the delivery order, on a firm-fixed-price basis, and not to exceed the Joint Travel Regulation.

2. A man-day is 10 hours. The representative is to work no more than 10 hours per day, 50 hours per week, unless otherwise negotiated. A man-day of service includes periods during which the representative is delayed or prevented from performing tasks, only if the delay or non-performance is solely the Government's fault. Man-days of service include travel time for initial travel from contractor's facility to site of work, travel between sites of work, and return travel to contractor's facility. It shall also include time that the FSR spends preparing required written reports at the work site which can be verified by the Government.

3. Saturday/Sunday: When work is performed on a Saturday/Sunday, a man-day shall be charged at the Saturday/Sunday man-day rate IAW Section B.

4. Holidays: The Government will pay for federal holidays in addition to the actual days worked at the man-day rate established. The Government is not responsible for vacation, other holidays or sick leave pay.

5. Emergency Leave: The Government is not responsible for emergency leave that the contractor may grant to the FSR while performing work under this contract. The Government is only responsible for actual days worked by qualified contractor representative, whether or not the assignment is completed by the same representative. The negotiated price for travel costs will include only one complete round-trip transportation and travel costs between sites of work per assignment.

C.12.4 Contract Field Service Report/Field Service Representative (FSR) Reports: Each FSR shall prepare and deliver via e-mail a report in accordance with CDRL A032 following completion of each assignment covering their activities.

C.13 WARRANTY

C.13.1 Requirement for Commercial Warranty: The contractor shall provide the contractors standard commercial warranty with all applicable pass through warranties. The warranty shall be incorporated in the contract(Attachment 034). The warranty period shall begin when the Government takes possession of the vehicle or on day 546 of storage at the contractor location; whichever event is achieved first. Possession is defined as the machine being shipped from the contractor facility and being delivered to either the accepting unit or other designated Government owned and administered storage facility. Machines still in the contractors possession at day 546 of storage will have the warranty activated and vehicle stamped with the warranty date \*NOTE: Temporary storage by the Government at a Government owned and administered storage facility does not remove the requirement for "Vehicle Hand-Off Training" outlined in paragraph C.5 at the time the vehicle leaves temporary storage and is shipped by the Government to the accepting unit.

C.13.2 Warranty Performance Report: The contractor shall submit a report reflecting all of the warranty claims processed on each vehicle within the appropriate reporting period. In addition to the data required by the Data Item Description (DID), the report shall include the number of operating hours on the vehicle at the time of fault. The report shall be submitted in accordance with CDRL A033.

C.14 CREW PROTECTION KIT (CPK)

C.14.1 Armor Kits: The contractor shall provide HYEXs with an A-Kit, and a C-Kit as described below and in section 3.2.11 and 3.7.4 of the PD.

C.14.1.1 Special Tools:

C.14.1.2 A-Kit: The A-Kit shall consist of permanent, non-removable portions of integral components and mounting provisions that allow the mounting of the C-Kit. The A-Kit shall include armor protection to those portions of the cab, which by basis of design, would make it difficult or impossible for upgrading to full crew protection. The A-Kit shall also consist of underside ballistic protection to include, but not limited to, armored floor panels. The A-Kit shall incorporate any vehicle modifications required to allow the HYEX to accept and operate with the armor package. The A-Kit shall be installed during production on every vehicle. The HYEXs, with the A Kit, shall meet all requirements stated in this Purchase Description (PD), without degradation.

C.14.1.3 The HYEXs production configuration shall include mounting provisions that would be required for the installation of the armor kit.

C.14.1.4 The contractor shall install Government furnished armored cabs onto HYEX vehicles.

C.14.1.5 C-Kit: The C-Kit consists of a complete interchangeable armored cab, that when matted with the A-Kit, meet the crew protection

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level. The HYEXs, with the C-Kit installed, shall meet all the requirements stated in the PD, without degradation, unless otherwise stated. The armored C-Kit shall be able to be repaired without complete cab replacement.

C.14.1.6 Combat Lock: The HYEXs doors in the C-Kit configuration shall incorporate a device that allows the door to be secured from inside the occupant compartment/cab. The combat lock shall prevent the door from being opened from outside the cab by enemy personnel and by the force of an IED explosion. An override shall be provided so that emergency personnel outside the cab can open the door. The override shall be operable by the Army's standard combat wrench (PN). The contractor shall not introduce any new tools to override the combat lock. Reference ATPD 2368 section 3.7.4.2

C.14.2 Ballistic Test Meetings: The Government will host a pre and post ballistic test meeting at Aberdeen Proving Ground, if required.

C.15 GOVERNMENT-FURNISHED EQUIPMENT

C.15.1 RESERVED

C.15.2 RESERVED

C.15.3 Government-Furnished Equipment (GFE) under Attachment 0035 is provided at no cost to the contractor to support technical manual verification.

In accordance with AR 700-131, GFE shall not be modified or altered in any manner, and shall be maintained and returned in as good condition as when issued; fair wear and tear exempted. Property furnished as GFP will not be shipped or transferred from the site originally authorized or from one contract to another, unless written notification and shipping documentation is provided from the PCO.

Sixty (60) days prior to the completion of logistics validation/verification, or immediately upon notification from the government, the contractor, through the PCO shall request instructions regarding return or reutilization of GFE. When returning the item(s), they shall be preserved, packaged and packed by the contractor in a manner to ensure safe arrival, utilizing the same or equivalent container as originally provided.

C.15.4 The contractor shall comply with the following clauses incorporated in modification P00004:

SECTION F Clause 52.247-55 F.O.B. POINT FOR DELIVERY OF GOVERNMENT-FURNISHED PROPERTY, and 252.211-7007 REPORTING OF GOVERNMENT-FURNISHED EQUIPMENT IN THE DOD ITEM UNIQUE IDENTIFICATION (IUID) REGISTRY;

SECTION I Clause 52.245-1 - GOVERNMENT PROPERTY (DEVIATION -- DARS TRACKING # 2007-o0012), and 52.245-9 USE AND CHARGES

C.16 USMC Requirements

C.16.1 Hardware. The contractor shall manufacture and deliver Type I Hydraulic Excavators (HYEXs) and attachments meeting all the technical requirements of Purchase Description (PD) "Purchase Description for Excavator, Hydraulic, Crawler Mounted" PD No. ATPD-2368 (Attachment 001). Delivery Orders will specify the vehicle type, attachment type, quantity, delivery dates, destinations, level of preservation, and paint color. All hardware listed in C.1.2, C.1.3, and C.1.4 shall be included in the unit price of the HYEXs. The USMC configuration is different from the Army's configuration due to Tier IV EPA requirements.

C.16.2 Training Requirements.

C.16.2.1 Marine Corps Training Requirements. The Contractor shall provide training for the following activities:

- a. Product Qualification Test (PQT)
- b. Instructor and Key Personnel Training (I&KPT)
- c. New Equipment Training (NET)

The training shall also include the vegetation removal tool attachment. (The cost for the development of the vegetation removal tool data will be borne by the Army.)

C.16.2.1.1 Management of Training Development. A Contractor Training Manager shall be the single point of contact for training and courseware development matters. The Training Manager should have a background in the development and presentation of military and/or civilian training programs. The duties of this Training Manager shall include, but not be limited to, the coordination of training courseware analysis, design, development, presentation, and modification. The Contractor shall establish a Curriculum/Training Materials Working Group to monitor and manage the development of training materials to support the system. The Contractor shall ensure that their instructors are members of the curriculum development team. They shall be able to read, write, speak, and comprehend the English language including technical language and terms associated with the operation, repair, installation, maintenance, assembly, and disassembly of the system and subsystem. Contractor personnel conducting training shall have an understanding of all tasks to be taught

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under this contract. Sixty (60) days prior to fielding, the Contractor shall provide to the Government written acknowledgement of the proficiency and skill of instructors scheduled to conduct the required training. The Government will review and approve Contractor-proposed instructors 30 days prior to the start of training.

C.16.2.1.2 Training Program Plan (TPP). The Contractor shall provide a Plan of Action and Milestones (POA&M) for the training program as a portion of the 250G Hydraulic Excavator (HYEX) Training Program Plan in accordance with (IAW) CDRL A038.. The POA&M shall identify proposed course dates, proposed Job Task Analysis dates, proposed 30%, 60%, and 100% review dates, and delivery dates for draft and final training materials. All training material deliveries shall include a current state copy of the systems Maintenance and Operator Manuals.

C.16.2.1.3 Training Courses. The training courses will consist of lectures, demonstrations, practical application, and evaluation to include but not limited to written tests and hands on practical performance.

C.16.2.3.1 Operator Training. The contractor shall design the course for HYEX Operators, covering complete operation to include (but not limited to) capabilities, limitations, interfaces, tool attachment and detachment procedures, characteristics of the armor cab and the difference in operation when the Armor cab is installed, safety of the vehicle, correct use of equipment, basic issue items (BII), before, during and after operations Preventive Maintenance Checks and Services (PMCS), trouble-shooting, and tools used for operator maintenance tasks. The training shall be consistent with the procedures established in the appropriate HYEX technical manual. The training shall also include the vegetation removal tool attachment. (The cost for the development of the vegetation removal tool data will be borne by the Army.) Upon completion of instruction, the contractor shall conduct a written test/examination and practical hands-on performance test for each operator trainee.

C.16.2.3.2 Maintainer Training. The contractor shall design the course for maintainers of the HYEX. The topics to be covered shall be: minimal operation characteristics, Field Level PMCS, TMDE utilized for diagnostics, troubleshooting, and repair/replacement of equipment components to include sub-system, unique control systems, engine, fuel, pumps, and electrical, hydraulic, pneumatic, and ancillary systems if so equipped. The training shall be consistent with the approved Job Task Analysis submitted under CDRL A040 and procedures established in the appropriate HYEX technical manual. Upon completion of instruction, the contractor shall conduct a written test/examination and performance (hands-on) test for each maintainer trainee or small group of trainees.

C.16.2.3.3 Armor/Crew Protection Kit (CPK) Installation Training. The contractor shall design the course for maintainers of the HYEX and a lesson plan shall be submitted in accordance with CDRL A041, The instruction shall cover: removal of the commercial cab from the HYEX and stowage/packing in the shipping container; unpacking and installation of the Armor/CPK onto the HYEX; differences in operational characteristics with the armor/CPK installed; and any differences in Field (Intermediate) Level PMCS, TMDE utilized for diagnostics, troubleshooting, and repair/replacement of equipment components to include sub-system. The training shall be consistent with the approved Job Task Analysis submitted under CDRL A040 and procedures established in the appropriate HYEX technical manual. Upon completion of instruction, the contractor shall conduct a written test/examination and performance (hands-on) test. Performance (hands-on) test will be a group effort by the Marines attending the training.

C.16.2.3.4 Material revisions: The contractor shall ensure Operator, Maintainer, Armor/Crew Installation, Operator I&KPT, Maintainer I&KPT, and Armor, Crew Installation I&KPT training sessions are in Navy Marine Corps (NAVMC) format found in Publication 1553.1 Systems Approach to Training (SAT) Users Guide.

C.16.2.4 Training Material Development. The contractor shall develop the HYEX Operator, Maintainer (Mechanic), and Armor/Crew Protective Kit Installation training courses in accordance with (IAW) NAVMC 1553.1, Systems Approach to Training (SAT) Users Guide, dated 27 Oct 2010. The Government can provide example/sample training materials at the Start of Work meeting. No classified information shall be included in the training materials. The contractor shall deliver all course control documents and training materials in an editable commercial electronic format: (Microsoft Word for documents and PowerPoint for presentations). Materials submitted shall not conflict with the content of the HYEX technical manuals. Training materials shall be developed at the tenth (10th) grade reading and comprehension level. The training courses shall consist of lectures, demonstrations, practical application, and evaluation. Operator training shall be structured to provide no more than 30% classroom (lecture/demonstration) and 70% practical application (hands-on) on equipment. Maintainer training shall be structured to provide no more than 40% classroom (lecture/demonstration) and 60% practical application (hands-on) on equipment. Training course class sizes shall be no more than 12 students. The student to instructor ratio shall be no more than 12:2 for lectures, practical application, hands-on training, and practical exercises. Operator and Maintainer training courses shall not exceed forty (40) hours in length each, consisting of five (5) eight hour days. Armor/CPK Installation training course shall not exceed twenty four (24) hours in length, consisting of three (3) eight hour days. Government approval is required to extend/exceed the class length for Operator, Maintainer, and Armor/CPK Installation beyond the above prescribed lengths.

C.16.2.4.1 Instructional Performance Requirements Documentation (Training Task Data) Development. The Contractor shall develop the Instructional Performance Requirements Documentation (Training Task Data). The Contractor shall perform a HYEX Job Task Analysis (JTA) with government participation. The JTA will identify individual HYEX operator and maintainer tasks (up to and including field level). The identification of who is to perform the operator and maintenance related tasks will either require the creation of Source, Maintenance, and Recoverability (SM&R) codes or be derived from existing SM&R codes. The JTA will provide the identification of who will perform the task (operator, maintainer, or both) and the contractor shall develop training tasks IAW the CDRL A040.

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C.16.2.4.2 Training Program Structure Documentation (Curriculum Outline of Instruction) Development. The contractor shall develop the Training Program Structure Documentation (Curriculum Outline of Instruction). The outline shall identify the HYEX (Operator and Maintainer) training class schedule of events and include a breakdown of individual topics showing the learning objectives and time allotted, instructional materials required, facilities and instructor requirements, media and training support equipment, reference materials, type of instruction (lecture, demonstration, practical application), and tools and TMDE required for each period of instruction. The Government (USMC) approved Instructional Performance Requirements Documentation (Training Task Data) shall be used as the basis for the development of the course curriculums. The Contractor shall submit draft Curriculum Outline of Instruction, 90 days prior to I&KPT. The Government will provide comments 60 days prior to I&KPT. Contractor format is acceptable.

C.16.2.4.3 Training Conduct Support Document (Lesson Plan Data Requirements) Development. The Contractor shall develop the Training Conduct Support Document (Lesson Plan Data Requirements). 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, written test questions, and task performance checklists. Time required for delivery of an individual period of instruction/lesson plans shall not exceed four (4) hours. The Contractor shall prepare the Course Conduct Support Documentation (Lesson Plan Data Requirements) IAW the CDRL A041.

C.16.2.4.4 Conduct Support Document (Trainee Guide Data Requirements) Development. The Contractor shall develop the Training Conduct Support Document (Trainee Guide Data Requirements). The Student Guides (Handouts) shall contain information that enhances the students mastery of tasks, and shall provide information and summaries relevant to each period of instruction to include training objectives and technical references. The Contractor shall prepare the Course Conduct Support Documentation (Trainee Guide Data Requirements) IAW CDRL A042.

C.16.2.4.5 Instructional Media Package (Courseware Data Files) Development. The Contractor shall develop the Instructional Media Package Development (Courseware Data Files). The Courseware Data Files shall contain the graphics that enhances the transfer of knowledge to the students and their mastery of tasks, and shall provide information and summaries relevant to each period of instruction to include training objectives and technical references. The Contractor shall prepare the Instructional Media Package Development (Courseware Data Files) IAW CDRL A043.

C.16.2.4.6 Training Test Package Development. The Contractor shall develop the HYEX Training Test Package. The test package shall include written and performance tests based upon the Instructional Performance Requirements Document. Written test items shall consist of true/false, multiple choice, and fill-in-the-blank questions. The test questions shall be written to evaluate the trainees comprehension of knowledge-based learning objectives and the Test Packages shall include a minimum of three test items for each learning objective. The performance tests shall be developed to evaluate the trainees ability to perform specific Operator or Maintainer task and subtasks and shall be presented in checklist format. The Contractor shall prepare the Test Package IAW CDRL A044.

C.16.2.4.7 Training Conduct Support Document (Training Materials Change) Development. The Contractor shall develop the Training Conduct Support Document (Training materials change) Development. Training material change data provides information, which is necessary for keeping the training materials current and compatible with the systems and equipment as engineering, technical, operational changes or government evaluation and comment are made. The Contractor shall change the information contained in the Government approved I&KPT materials to reflect the needs of the NET. The training materials shall be modified to reflect any additions or deletions as directed by the Government. The Contractor shall prepare the Course Conduct Information Package (Instructor Evaluation and Comments) contractor format is acceptable.

C.16.2.5 Product Qualification Test (PQT) Training. The Contractor shall develop HYEX training course(s) to support PQT and any other evaluation or test of the HYEX. PQT Operator training course will make maximum usage of the commercial manuals. Information in the training courses will not contradict the technical manuals. Errors discovered in the technical manuals will be reported in accordance with USMC procedures. Prior to training initiation, the Contractor shall meet safety standards in accordance with local, state, and federal regulations.

C.16.2.6 Course Conduct Information Package (Trainee and Training Course Completion Data). The Contractor shall develop the HYEX Course Conduct Information Package (Trainee and Training Course Completion Data) in accordance with CDRL A045. Upon completion of each HYEX training class for Instructor and Key Personnel, and each New Equipment Training (NET), the Contractor shall provide the Government with a Trainee and Training Course Completion Data, and a course critique completed by each student as described in CDRL A045. The Contractor shall present each student with a course completion certificate upon receiving a passing grade of 80% and higher.

C.16.2.7 Instructor and Key Personnel Training (I&KPT). Instructor and Key Personnel Training; Operator; Maintainer; and Armor Installation courses. The contractor shall conduct training courses for both Operators and Maintainers using training materials developed under this contract, at a mutually agreed on location. The location hosting I&KPT shall provide 250GR HYEXs, facilities, tools (common and special). The contractor shall supply all consumables, replacement parts, and prefabricated fault bugs consumed or utilized during the training. This I&KPT is for the purpose of piloting and verifying the training materials developed for NET under this contract.

C.16.2.8 New Equipment Training (NET). The Contractor shall develop and conduct NET in accordance with this section.

C.16.2.8.1 The contractor shall develop New Equipment Training. The contractor shall conduct NET for the system based upon the

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Instructional Performance Requirements Document and utilizing the previously Government-approved training materials. NET shall consist of separate training for Operators, Maintainers and armor/CPK installation in support of fielding and will take place at times and locations designated by the Government. The contractor will be informed of the designated time and location at least 30 business days prior to the training. Travel will be negotiated prior to the issuance of the delivery order, at a firm fixed price basis, and not to exceed the Joint Travel Regulation.

C.16.2.8.2 Conduct of New Equipment Training (NET). The Contractor shall conduct NET to support the Government (USMC) fielding plan and material handoff to units. Training dates will be determined by the Government (USMC) and provided to the Contractor at least thirty (30) business days in advance for Continental United States (CONUS) training and at least one hundred twenty (120) days in advance for outside CONUS training and include instructions, dates, and locations. The Contractor shall provide a copy of the approved training materials to each units Training Officer.

C.16.2.9 Training Aids, Devices, Simulations, and Simulators (TADSS). The contractor shall identify and recommend to the government TADSS that support, enhance, and facilitate the transfer of knowledge, skills, and abilities of Marine Operators and Maintainers attending basic or intermediate level instruction/training in accordance with CDRL A063. Recommended TADSS should focus on being easily employed by instructional staff, and be effective and efficient in the facilitation of instruction of critical training task.

C.16.3 Manuals/Provisioning

HYDRAULIC EXCAVATOR (HYEX)  
TAMCN B00657B, NSN XXXX-XX-XXX-XXXX  
TECHNICAL MANUAL REQUIREMENTS

The requirements specified herein constitute Technical Manual (TM) tasks to be performed by the contractor and the resulting deliverables to the Government. This Technical Manual Contract Requirement (TMCR) sets forth the work efforts required of the contractor to develop, produce, validate, and deliver a System Operation and Maintenance Manual, Components List and Repair Parts and Special Tool List (RPSTL) for the HYEX, hereafter referred to as the HYEX TMs. The target audience is USMC MOS 1345/1349. It also describes the specific provisioning tasks to be accomplished for this program.

C.16.3.1 Applicable Government Documents. The following documents were used to establish the requirements to the extent covered herein and shall be used for development of the HYEX TMs. In the event of conflict between this document, and the documents referenced herein, the requirements of this document shall take precedence.

MIL-STD-40051-2 w/ Ch 3	Preparation of Digital Technical Information for Multi-Output Presentation of Technical Manuals
MIL-STD-2073-1E	Standard Practice for Military Packaging
MIL-PRF-28002C	Requirements for Raster Graphics Representation in Binary Format
MIL-PRF-28003B	Digital Representation for Communication of Illustration Data:
	CGM Application Profile

C.16.3.2 General Requirements

Using the current Army 240D TMs as a baseline, the contractor shall develop the TMs with Marine Corps specific equipment, procedures and terminology. The TMs shall also include the vegetation removal tool attachment. (The cost for the development of the vegetation removal tool data will be borne by the Army.) The TMs will be developed in work package format, in accordance with MIL-STD-40051-2 with Change 3 (dated March 2008), and in accordance with the United States Marine Corps (USMC) 3-Levels of Maintenance (LOM) concept. The manual(s) shall include a complete Repair Parts Lists (including exploded views of all assemblies and subassemblies) and Special Tools List. The contractor shall also provide a part number-to- National Stock Number (NSN) cross reference index with the RPSTL. The Army 240D manuals will be used as the baseline documents. All modifications, component upgrades and changes will be incorporated as part of the development effort. The TMs will be delivered in accordance with CDRLs A046, A047, and A048. Using the OEMs Bill of Materials (parts list) and the TM listed below as a baseline, the Contractor shall prepare provisioning documentation for the HYEX. The Contractor shall update or add NSNs, and shall assign Source, Maintenance, and Recoverability (SM&R) codes in accordance with the USMC 3-LOM concept.

C.16.3.3 Detail Requirements

C.16.3.3.1 Develop/Update HYEX TMs. Per guidance in this document.

C.16.3.3.2 Develop TM Outline. The contractor shall develop and submit a TM outline for the HYEX TMs for review and approval within 60

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days after contract award or signed delivery order.

C.16.3.3.3 Add new and upgraded components. The TMs shall include any new or upgraded components.

C.16.3.3.4 Provisioning. The contractor shall prepare a provisioning file for the HYEX to reflect changes from the 240D model to the 250G model. The USMC shall be included as a user of the vegetation removal tool attachment. Provisioning documentation shall be prepared in a top-down breakdown sequence. The following activities will be part of the provisioning effort for this program.

C.16.3.3.4.1 Create provisioning files. The Contractor shall create provisioning file/PPL to reflect the HYEX configuration in accordance with CDRL A049. The Contractor shall provide Electronic Data for Provisioning (EDFP) for each new item to be provisioned in accordance with CDRL A050. Updates will be provided to the Marine Corps for Marine Interactive Computer-Aided Provisioning System (MICAPS) updates via an LSA-036 or some other mutually agreed upon format.

C.16.3.3.4.2 Conduct NSN Screening. The Contractor shall screen all part numbers for NSN attainment and incorporate updates as appropriate into the part number/NSN cross reference index.

C.16.3.3.4.3 Assign/Review/Update SM&R Codes. The contractor shall assign/review/update SM&R codes and incorporate Government provided updates into the provisioning files and parts listing.

C.16.3.3.4.4 Conduct Provisioning Parts List (PPL) to TM Verification. The contractor shall review the PPL for completeness. Review shall be conducted by verifying the PPL data against the OEM parts manual. Missing part numbers shall be identified and updates incorporated into the PPL and/or TM.

C.16.3.3.5 Develop parts list TM figure and item data. The provisioning documentation generated under this contract shall be used as the principle source of data in preparing the manual.

C.16.3.3.6 Validation. Validation is a contractor QA responsibility accomplished on all TMs, changes, and revisions thereto. Validation shall not be considered complete until the contractor submits a validation certification attesting to the TM adequacy and accuracy in accordance with the TMCR. The certificate shall be signed by authorized contractor representatives.

C.16.3.3.7 TM Validation Plan. The Validation Plan shall reflect the requirements of paragraph 16.3.3 and reflect compatibility with the overall maintenance and support plan, and indicate the scope of the validation effort. When so specified, the plan shall include recommendations for verification support. The plan shall consist of the following elements:

- a. Manuals shall be identified in sufficient detail to permit rapid identification of material to be validated and verified.
- b. Procedural methods of validation shall be identified in sufficient detail to assure the delivery of complete and accurate TMs. These procedures shall permit the performance of validating tasks in an environment which closely duplicates service conditions.
- c. A planned program shall be scheduled that will ensure timely completion of validation and verification to meet scheduled manual deliveries.
- d. The plan shall identify the cognizant preparing activity, organization, and personnel responsible for accomplishing the validation effort.
- e. The plan shall identify site locations, kit requirements, facilities, and equipment required during validation effort.
- f. The plan shall show a system of record keeping to be established which will fully document the validation effort, including method to be used to correct errors.

C.16.4 Conferences/Reviews

C.16.4.1 Start-of-Work Meeting/Provisioning Guidance Conference. The contractor will host a Start-of-Work/Provisioning Guidance Conference within 30 days after contract award. The purpose of this conference will be to review the TMCR and provisioning requirements and to discuss/finalize the program milestone schedule. All deliveries will be made IAW the applicable CDRLs.

C.16.4.2 TM In-Process Reviews (IPRs). The Government requires that IPRs be held to review the development of publications by the contractor. The contractor shall support all IPRs by providing copies of material to be reviewed, composing minutes of the IPR, and ensuring attendance by appropriate logistics, technical writing and program management staff. Material to be evaluated may include, but is not limited to:

- a. Source data
- b. TM outlines and QA plans
- c. Presentation methods
- d. Modes of preparation

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e. TMCR compliance

f. Draft of completed text and artwork

C.16.4.2.1 Scheduling IPRs. IPRs may be held at the contractor's facility or a designated Government facility. The contractor shall submit a proposed IPR schedule at the Start of Work/Guidance Conference. IPRs may be held at various stages of TM development prior to preparation of the Final Reproducible Copy (FRC). The contractor may request IPRs when assistance or clarification is desired. The Government may require, and the contractor may request, additional IPRs as necessary.

C.16.4.2.2 Review levels. At a minimum, IPRs will be held at major milestone efforts or at a significant update of information as determined by the Government. IPRs may be requested by the Government to provide coordinated monitoring of TM preparation by the contractor. The contractor shall support IPRs and provide access to TM reference materials, intermediate products, and final products. The contractor shall provide one copy of the TM for review to each IPR participant.

C.16.4.2.3 IPR records. The contractor shall act as recorder and record decisions/discrepancies resulting from, or associated with IPRs. Any discrepancies and/or deficiencies noted as the result of the IPR shall be corrected prior to follow-on IPRs, certification or submission of manuals to the Government for review and acceptance.

C.16.4.3 Provisioning Conference(s). The contractor will host a provisioning conference prior to submittal of the provisioning documentation to the Government. The location and date of this conference will be agreed to at the Start of Work meeting/Provisioning Guidance Conference.

C.16.5 The United States Marine Corps (USMC) Extended Warranty for the Hydraulic Excavators (HYEX) Type I, and Armored Cabs.

The contractor shall provide Extended Warranties for the HYEX Type I systems, Armored Cabs, and all of the HYEX components and sub-components for the USMC, as outlined below:

C.16.5.1 HYEX Extended Warranty CONUS: The contractor shall provide a five-year or 2,500 hour extended warranty, whichever occur first, for John Deere Hydraulic Excavators HYEX Type I. The extended warranty shall include all costs associated with parts, parts support, packaging, freight, handling, diagnostic time, labor, cleaning, travel/time, and travel/mileage and customer support associated with providing services to correct defects and/or making warrantable repairs. Items covered under the extended warranty also exclude consumable items and wear items except hoses and belts. Further, the extended warranty coverage includes items found to have defects or failures, and items identified in manufacturers recalls. The contractor or its designated dealer shall be the point of contact for extended warranty actions associated with the John Deere Hydraulic Excavators.

C.16.5.2 Extended Warranty Management: The contractor and its designated dealers shall use the Program Manager Engineer Systems (PM ES), Warranty Service and Support Claims Tool (WSSCT) to manage all extended warranty claims under this contract pertaining to the John Deere Hydraulic Excavators. The contractor shall:

a. Establish an account in the WSSCT using the website link below. Local vendors, whom conduct extended warranty repairs and repair consult, shall also establish accounts in the WSSCT to support the John Deere Hydraulic Excavators. URL: <http://www.marcorsyscom.usmc.mil/sites/warranty/>

b. Maintain a dialogue with the User, Extended Warranty Coordinator, and Project Officer using a combination of the Comments Log and e-mail on all extended warranty claims.

c. Order and ship all parts under warranty as applicable for CONUS and OCONUS- HAWAII ONLY.

d. Perform work or repairs on all claims under the extended warranty as applicable for CONUS. The contractor shall adhere to the following repair cycle times:

Continental United States (CONUS) and HAWAII: 7 Days Parts and repair. The timeframe is contingent upon authorized John Deere dealers receiving full-time contractor access (green vehicle identification tags) for the life of the warranty.

Overseas Contingency Operations (OCO): 14 Days Parts only, delivered to either Dover Air Force Base or an applicable Army Post Office/Fleet Post Office (APO/FPO) shipping address. This is dependent on the weight of the part(s) being shipped and the allowable threshold of the United States Postal Service (USPS).

C.16.5.3 Extended Warranty Execution CONUS: The contractor shall provide an extended warranty for all components of the John Deere Hydraulic Excavators and this warranty shall commence on the later of either the date of acceptance or the date of delivery to the receiving unit. Each system and sub-system of the John Deere Hydraulic Excavators covered by the extended warranty shall be indexed, and identified by serial number, model or part number, and the date of acceptance by the using unit. All items under extended warranty will be loaded to the WSSCT by USMC and vendor serial numbers. The User may conduct repairs and only require the contractor to provide the warranted parts. The contractor shall not void the extended warranty when User conducted repairs are performed.

C.16.5.4 Armor Cab Extended Warranty CONUS: The contractor shall provide a five-year (parts only) extended warranty for 40 Southern

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California Gold Products (SCGP) Inc. armor cabs for the USMC HYEX. John Deere warrants that each new component will be free from defects in material and workmanship for a period of 60 months from date of delivery from SCGP. Deere and SCGP and at no additional charge to the government, shall repair or replace any returned parts, John Deere is to decide whether to repair or replace, which are determined to be defective by the government within the warranty period and returned to SCGP F.O.B. factory of origin. This warranty shall not apply to components subjected to misuse or abnormal operation. John Deere's obligation under this warranty is limited to the repair or replacement of the defective component and does not include any labor related to subsequent installation. Deere or SCGP shall not be liable for collateral, consequential, indirect, incidental, of exemplary damages arising out of, or connected in any way with parts and components provided under this warranty. SCGP will issue a return material authorization (RMA) number for components to be returned by the government for any reason. Items shall be sent to the SCGP address, freight prepaid, insured, and referencing the RMA number. When parts and components are returned from points outside the United States, the Government will be responsible for all freight and brokerage charges.

C.16.5.5 Warranty CONUS Vehicles Covered: The contractor shall provide the warranty described above to the following 40 CONUS vehicles:  
A. See attachment 0001 on DO 0019

C.16.6 RESERVED

C.17 Vegetation Removal Tool (VRT) Attachment Logistics Requirements

The contractor shall develop data for the VRT Attachment as outlined below.

C.17.1. Maintenance Analysis. The supportability analysis shall be documented in the contractors format compatible to the Hydraulic Excavator (HYEX) Type I, as an LMI summary entitled Maintenance Analysis, and will identify the maintenance functions, level of maintenance, manpower, spare and repair parts and support equipment required for each replaceable and repairable item for the VRT. The maintenance analysis shall include a maintenance task file documented in the contractors format, and will serve as source data for development of the Maintenance Allocation Chart (MAC), Provisioning Technical Documentation (PTD), technical manuals and Army Manpower and Requirements Criteria (MARC). The maintenance analysis shall be documented in end item hardware breakdown sequence, using LSA Control Numbers (LCNs). Instructions are contained in Attachment 006 (LMI Maintenance Analysis. The Maintenance Analysis shall be delivered IAW CDRL A052.

C.17.2 Provisioning Requirement

C.17.2.1 Provisioning Parts List (PPL). The contractor shall develop and deliver LMI provisioning data (PPL) for all parts, special tools, BII, and Expendable/Durable items identified on the VGT. The submission shall have no more than 1500 lines, unless approved in advance by the Government. Prime part numbers and Commercial and Government Entity (CAGE) Codes will reflect the original equipment manufacturers information unless that part is modified, changing form, fit, and function. PPL shall be prepared and submitted in IAW MIL-PRF-49506, LMI Summary Worksheet (Attachment 8), LMI Data Provisioning Requirements Worksheet (Attachment 010), CDRL A053 and DI-ALSS-81529.

C.17.2.2 Engineering Data for Provisioning (EDFP). Provisioning illustrations shall consist of illustrations such as company drawings or commercial parts book pages that clearly identify each new item, the items part number and CAGE code, physical characteristics and function of the item. The Contractor shall furnish an illustration that is legible and representative for each P source-coded part number being provisioned. Illustrations shall be annotated with the affected Provisioning Line Item Sequence Number (PLISN) and Provisioning Contract Control Number (PCCN) for the system. Illustrations are not required for items accompanied by a copy of provisioning screening which indicates this item has previously been assigned a valid national stock number. EDFP shall be submitted in accordance with CDRL A054.

C.17.2.3 Provisioning Master Record (PMR). The contractor shall submit LMI provisioning data (PPL) either on-line or electronically. The Government will discuss each method at the Provisioning Guidance Conference as part of the start of work meeting (C 3.2.1). All submissions of the LMI PPL data must be compatible with TACOM Logistics Modernization Program (LMP) Provisioning on Line System in accordance with Automated Data Systems Manual (ADSM) ADSM 18-LEA-JBE-ZZZ-UM-06 and must pass all LMP edits.

C.17.2.4 Provisioning Screening: The contractor shall conduct provisioning screening on each item on the PPL for standardization or NSN identification of all P source-coded items. This screening will be used to select valid part numbers, NSNs, and current unit of measure/issue prices for provisioning purposes. The contractor shall screen common hardware items (nuts, bolts, screws, washers, lock washers, rivets, etc.) by technical characteristics. The screening results must be available to review at each provisioning conference. The contractor shall conduct provisioning screening using FLIS, WEBFLIS, or by batch submittal part numbers to DLIS.

C.17.3 Publications Requirement

C.17.3.1 Technical Publications. The Contractor shall develop a Change Package to the Department of the Army Technical Manual (DATM) and Electronic Technical Manual (ETM) to the Hydraulic Excavator (HYEX) Technical Manuals to include the Vegetation Removal Tool (VRT) and to capture any updates and changes made to the currently approved configuration. This Change Package will be developed in accordance with (IAW) Publications Requirements, Attachment 41; Technical Manual (TM) Requirements Matrix, Attachment 37; Equipment Publications Defects, Attachment 38, and Contract Data Requirements Lists (CDRLs) A055, A056, A057, A058 and A059. The version of Military-Standards

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(MIL-STDs) used to develop the original technical manual shall be used.

C.17.3.1.1 The following manuals will be affected by the Change Package:

TM 5-3805-294-10	Operators Manual for Hydraulic Excavator (HYEX)
TM 5-3805-294-23	Field Maintenance Manual for Hydraulic Excavator (HYEX)
TM 5-3805-294-24P	Field and Sustainment Repair Parts and Special Tools List (RPSTL) for Hydraulic Excavator (HYEX)
TM 5-3805-295-13&P	Operator and Field Maintenance Manual and Repair Parts and Special Tools List (RPSTL) for Hydraulic Excavator (HYEX)
LO 5-3805-294-13	Lubrication Order for Hydraulic Excavator (HYEX)

C.17.3.1.2 The manuals sited in paragraph C.17.3.1.1 shall be prepared and delivered IAW MIL-STD-40051-2 (Change 3), CDRLs A055, A056, A057, A058 and A059, and all attachments.

C.17.3.1.3 A Draft Equipment Publication/Preliminary Technical Manual (DEP/PTM) of the Change Package shall be delivered IAW CDRLs A055, A056, A057, A058 and A059 in this contract. The validated DEP/PTM Change Package must be in the same format as the Authenticated manuals. The Change Package must conform to the governing content and format Military Specifications and Standards. The validated DEP/PTM Change Package shall include all required content per CDRLs A055, A056, A057, A058 and A059 and Attachments 41, 37, and 38.

C.17.3.1.4 A Final Draft Equipment Publication (FDEP) of the Change Package to the HYEX TMs shall be delivered IAW CDRLs A055, A056, A057, A058 and A059 in this contract. The FDEP Change Package shall have all Validation, DEP/PTM review, and Verification corrections, changes, and additions incorporated.

C.17.3.1.5 A Final Reproducible Copy (FRC) of the Change Package to the HYEX TMs and the completed HYEX TMs with the Change Package inserted shall be delivered IAW CDRLs A055, A056, A057, A058 and A059 in this contract.

C.17.3.1.6 The Contractor shall deliver all source material, defined as operating plans, standard procedures, computer programs, and residual material to include computer disks, and other media containing digital files, developed to fulfill the requirements of this contract.

C.17.3.1.7 TM Crosswalk. The Maintenance Allocation Chart (MAC), RPSTL, and Maintenance instructions shall be complete and consistent with the Logistics Management Information (LMI) process. The MAC is the framework for development of both the RPSTL and the Maintenance instructions, and all three should be coordinated. All maintenance functions listed in the MAC for a component shall have an associated Maintenance work package(s), at the appropriate level of maintenance, containing tasks supporting the maintenance functions. A listing of spare parts supporting the required maintenance functions shall also be listed in the RPSTL work package. The sequence of the Maintenance work packages and the RPSTL work packages shall follow the Functional Group Code (FGC) or Logistics Support Analysis Control Number (LCN) sequence in the MAC.

C.17.3.1.8 Quality Assurance (QA). The Contractor shall be responsible for the quality of the Change Package deliverables. All delivered TM information shall be complete, technically accurate, and useable by US Army soldiers. To meet this requirement, the Contractor shall develop and use a QA Plan that guarantees:

- a. Periodic QA reviews of TM content by persons different than those preparing the TM.
- b. Maintenance of QA records detailing the findings of those reviews.
- c. Controls to ensure that current, accurate engineering and parts information is available to TM preparers.

Government representatives have the right to review and comment on the Contractors QA Plan, records, and processes throughout the duration of the programs efforts.

C.17.3.1.8.1 Equipment Publications Defects List. The Contractor shall review and utilize the Equipment Publications Defects List, Attachment 38, which the Government uses to guide review of all publication deliverables. Publications deliverables developed under this contract shall not contain any defects listed on the Equipment Publications Defects List.

C.17.3.1.8.2 Acceptable Quality Level (AQL). The Governments goal is to ensure that the Contractor has performed sufficient Quality Assurance to eliminate from the Change Package all defects as defined in the Equipment Publications Defects List (Attachment 38). The DEP/PTM must meet AQLs before the Government will accept the DEP/PTM and move forward to plan Government Verification. The Government plans to review 100 percent of the DEP/PTM; however, if any DEP/PTM submission fails to meet either AQL criterion Percentage of Critical Errors or Percentage of Major Errorsthe DEP/PTM will immediately be rejected through official notice to the Procuring Contracting Officer (PCO). Critical and Major errors are defined in the Equipment Publications Defects List.

AQLsTM SizeSample Review SizePercent of Critical Errors\*Percent of Major Errors\*RejectedLess Than 50 WPsAll WPs10 Percent25 PercentYes50 or more WPs25 Percent of Total WPs10 Percent25 PercentYes\*Refers to the percentage of Sample Review Size that contains that particular type of error.

C.17.3.2 Publications Start-of-Work (SOW) Meeting. Within 30 days after contract award, a Publications SOW meeting will be held by the

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Government with the Contractor. This meeting may be a sub-meeting of an overall contract SOW meeting or a stand-alone meeting. The purpose of this meeting is to review publications contract requirements, establish lines of communications, answer questions, and develop a publications schedule based on the requirements of the program and the contract.

C.17.3.3 Publications In-Process Reviews (IPRs). The Contractor shall support Government IPRs by providing samples of work accomplished to date, answering questions about publications work processes, providing records of QA reviews, and responding to Government comments regarding publications processes or work samples.

C.17.3.4 Contractor Validation. The Contractor shall validate the technical accuracy and adequacy of all changed content in the DEP/PTM prior to its delivery to the Government. The Contractor shall maintain records of Validation reviews that show when the material was reviewed, how the procedures were performed, what the findings were, and all corrective actions taken. The records shall be signed and certified by two separate Contractor representatives. Validation personnel must include personnel who did not author the procedure. Government representatives have the right to witness entire or selected portions of the Contractors Validation effort.

C.17.3.4.1 Validation Process. All changed Operation, Preventive Maintenance Checks and Services (PMCS), Troubleshooting, and Maintenance procedures shall be 100 percent hands-on performance validated to ensure accuracy, compatibility, and completeness. Changed troubleshooting procedures shall be validated to the extent possible without damage to equipment. All performance validation shall be done using tools similar to Government-issued tools available to the soldier at the designated level of maintenance. The Contractor shall ensure the TM data accurately reflects and supports the MFS TRM configuration only, including any and all changes to the configuration resulting from testing, vendor parts supply, and production-line changes. Other changed content, such as Controls and Indicators, Front Matter, Rear Matter, Torque Tables, Theory of Operation, Glossary, and Index information, shall be validated by review against engineering data, TM data, and/or Government-procured production configuration hardware.

C.17.3.4.2 Validation Plan. The Contractor is required to have and to use a Validation Plan to validate changed TM content. The Validation Plan shall specify how that TM content will be validated and when and where that content will be validated. The Validation Plan shall describe the Validation method used for each type of TM content. The Validation Plan shall be delivered to the Government IAW CDRL A060. If the Government determines the Validation Plan will not ensure technical accuracy and adequacy of the Change Package deliverable, the Contractor will be required to change the Validation Plan.

C.17.3.4.3 Validation Report. A Validation Report shall be delivered after Validation completion, IAW CDRL A061. The Validation Report shall certify that Validation has been completed, shall list in detail the effort undertaken during Validation (processes, corrections, etc.), and shall show the Change Package deliverable has had QA applied with use of the Equipment Publications Defects List (Attachment 38). The Validation Report shall include a signature of an individual authorized to represent the Contractor. The Contractors complete Validation Records shall be made available to the Government upon request.

C.17.3.5 Government Verification. The Government is responsible for Verification of the Change Package to the TM to ensure accuracy and usability by US Army soldiers. Government representatives will review the DEP/PTM to determine that proper QA has been used during preparation, that the DEP/PTM is complete, and that the DEP/PTM is adequate for Verification. Verification may consist of hands-on performance of up to 100 percent of changed Operators and Maintenance procedures. The Government has the right to choose to verify the Change Package by desktop review, review on equipment, hands-on performance, or any combination of these methods. The Government intends to verify by performance to the extent required to ensure the Contractor has properly prepared and validated Change Package content.

C.17.3.6 The Contractor shall provide support to the Government Verification process. This support shall consist of facilities; tables; chairs; Contractor personnel to assist with record keeping, equipment preparation and maintenance; mandatory replacement parts supply; consumables (rags, lubricants, sealants, etc.), Government-issued tools; and Contractor-provided special tools.

C.17.3.6.1 The Contractor shall also provide personnel to take notes of all corrections, to answer questions, to review Verification issues, and to advise the Government of changes or recommendations that arise during Verification. The Contractor shall arrange for the services of a photographer to assist in documenting problem areas and changes required to correct errors or omissions in the DEP/PTM procedures being verified.

C.17.3.6.2 The Contractor shall correct all errors found in the Change Package to the TM, ETM, and electronic data files resulting from Contractor and Government reviews, tests, Validation, and Verification at no additional cost to the Government.

C.17.3.7 Data Rights. The TM content prepared under this contract shall be delivered with unlimited rights to the Government, as defined in the clause DFARS 252.227-7013, Rights in Technical Data Noncommercial Items. If any content includes copyrighted material, the Contractor shall furnish full copyright release for that data.

C.17.3.8 Warranty of Data. The Contractor shall ensure that all technical data delivered under this contract conforms to all specifications and requirements listed in the contract, as stipulated in the clause DFARS 252.246-7001 Warranty of Data.

C.17.4 Training

C.71.4.1 Development of Training Materials. The contractor shall develop updated training courses, to include operation and maintenance

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of the VRT. The courses shall be developed using the current skill, knowledge and abilities (SKA), of the target audience.

C.17.4.2 Training Materials: For each updated course, the contractor shall deliver additional instruction for the Instructor Lesson Plan, Student Training Guide, and Media Package for the VRT. Additional VRT training material shall have minimal impact to the Type I HYEX training course length. At the end of each class, the contractor shall conduct a hands-on performance test for each operator being trained. The contractor shall score each student based on their performance.

C.17.4.3 Operator: The VRT NET updates to the Operator course shall be designed for operators of the Type I HYEX, covering complete operation and safety of the VRT, complete tie down for shipment, Basic Issue Items (BII), Operator Preventive Maintenance Checks and Services (PMCS) and trouble-shooting. Updated Operator course shall be delivered IAW CDRL A062. Training shall be consistent with procedures established in the appropriate vehicle technical manual.

C.17.4.4 Maintainer: The VRT NET updates to the Maintainer course shall be designed for the maintainers of the Type I HYEX, and cover minimal operation characteristics, complete field level PMCS, troubleshooting, diagnosis and repair. The course shall be directed toward new technologies and items not currently in the Army system and different from the current system in the field. Updated Maintainer course shall be delivered IAW CDRL A062. Training shall be consistent with procedures established in the appropriate vehicle technical manual.

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