

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. Contract ID Code
Firm-Fixed-Price

Page 1 Of 21

2. Amendment/Modification No. 0003	3. Effective Date 2012MAR20	4. Requisition/Purchase Req No. SEE SCHEDULE	5. Project No. (If applicable)
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6. Issued By U.S. ARMY CONTRACTING COMMAND CCTA-ADCB CHERYL K. WILLIAMS (586)282-7150 WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL EMAIL: CHERYL.K.WILLIAMS@US.ARMY.MIL	Code W56HZV	7. Administered By (If other than Item 6)	Code
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8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code)	<input checked="" type="checkbox"/>	9A. Amendment Of Solicitation No. W56HZV-11-R-0171
		9B. Dated (See Item 11) 2012MAR20
	<input type="checkbox"/>	10A. Modification Of Contract/Order No.
		10B. Dated (See Item 13)

Code Facility Code

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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

is extended, is not extended. 2012MAY21 10:00am

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

12. Accounting And Appropriation Data (If required)

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

<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 type="checkbox"/>	C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of:	
<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)	
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

Name of Offeror or Contractor:

SECTION A - SUPPLEMENTAL INFORMATION

The purpose of amendment 0003 to solicitation W56HZV-11-R-0171 is to:

1. Extended the closing date from May 7, 2012 to May 21, 2012 at 10:00 a.m. local time in Warren, MI.
2. Make correction to Section C numbering under paragraph C.5.2.
3. Make correction to Line items no. 1300, 1400, 1500, 2300, 2400, 2500, 3300, 3400, and 3500 in section B.
4. Make correction to Line item no. A036, and A037 in Section B.
5. All other terms and condition remain unchanged and in full force and effect.

*** END OF NARRATIVE A0005 ***

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1300	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p><u>PREScribed LOAD LIST (PLL)</u></p> <p>NOUN: ORDERING YEAR 1 SECURITY CLASS: Unclassified</p> <p>PROGRAM YEAR: 1</p> <p><u>Description/Specs./Work Statement</u> PROCUREMENT DOCUMENTATION TITLE: IAW C.3.1.3 & CDRL 014</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p>	311	LT	\$ _____	\$ _____
1400	<p><u>AUTHORIZED STOCKAGE LIST (ASL)</u></p> <p>NOUN: ORDERING YEAR 1 SECURITY CLASS: Unclassified</p> <p>PROGRAM YEAR: 1</p> <p><u>Description/Specs./Work Statement</u> PROCUREMENT DOCUMENTATION TITLE: IAW C.3.1.4 & CDRL 014</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p>	63	LT	\$ _____	\$ _____
1500	<p><u>SPECIAL TOOLS</u></p> <p>NOUN: ORDERING YEAR 1 SECURITY CLASS: Unclassified</p> <p>PROGRAM YEAR: 1</p> <p><u>Description/Specs./Work Statement</u> PROCUREMENT DOCUMENTATION TITLE: IAW C.3.1.5 & CDRL 052</p> <p><u>Packaging and Marking</u></p>	63	LT	\$ _____	\$ _____

CONTINUATION SHEET

Reference No. of Document Being Continued
 PIIN/SIIN W56HZV-11-R-0171 MOD/AMD 0003

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
2300	<p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>PRESCRIBED LOAD LIST (PLL)</u></p> <p>NOUN: ORDERING YEAR 2 SECURITY CLASS: Unclassified</p> <p>PROGRAM YEAR: 2</p> <p><u>Description/Specs./Work Statement</u> PROCUREMENT DOCUMENTATION TITLE: IAW C.3.1.3 & CDRL 014</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p>	260	LT	\$ _____	\$ _____
2400	<p><u>AUTHORIZED STOCKAGE LIST (ASL)</u></p> <p>NOUN: ORDERING YEAR 2 SECURITY CLASS: Unclassified</p> <p>PROGRAM YEAR: 2</p> <p><u>Description/Specs./Work Statement</u> PROCUREMENT DOCUMENTATION TITLE: IAW C.3.1.4 & CDRL 014</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p>	79	LT	\$ _____	\$ _____
2500	<p><u>SPECIAL TOOLS</u></p> <p>NOUN: ORDERING YEAR 2 SECURITY CLASS: Unclassified</p> <p>PROGRAM YEAR: 2</p> <p><u>Description/Specs./Work Statement</u> PROCUREMENT DOCUMENTATION TITLE: IAW C.3.1.5 & CDRL 052</p>	79	LT	\$ _____	\$ _____

CONTINUATION SHEET

Reference No. of Document Being Continued
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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
3300	<p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>PRESCRIBED LOAD LIST (PLL)</u></p> <p>NOUN: ORDERING YEAR 3 SECURITY CLASS: Unclassified</p> <p>PROGRAM YEAR: 3</p> <p><u>Description/Specs./Work Statement</u> PROCUREMENT DOCUMENTATION TITLE: IAW C.3.1.3 & CDRL 014</p>	274	LT	\$ _____	\$ _____
3400	<p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>AUTHORIZED STOCKAGE LIST (ASL)</u></p> <p>NOUN: ORDERING YEAR 3 SECURITY CLASS: Unclassified</p> <p>PROGRAM YEAR: 3</p> <p><u>Description/Specs./Work Statement</u> PROCUREMENT DOCUMENTATION TITLE: IAW C.3.1.4 & CDRL 014</p>	52	LT	\$ _____	\$ _____
3500	<p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>SPECIAL TOOLS</u></p> <p>NOUN: ORDERING YEAR 3 SECURITY CLASS: Unclassified</p> <p>PROGRAM YEAR: 3</p>	52	LT	\$ _____	\$ _____

CONTINUATION SHEET

Reference No. of Document Being Continued
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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
9000	<p><u>Description/Specs./Work Statement</u> PROCUREMENT DOCUMENTATION TITLE: IAW C.3.1.1.5 & CDRL 052</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>DATA ITEM - CONTRACT DATA REQUIRMENTS LIST</u></p> <p>SECURITY CLASS: Unclassified</p>				
A036	<p><u>PROVISIONING & PRE-PROCUREMENT SCREENING</u></p> <p><u>Description/Specs./Work Statement</u> PROCUREMENT DOCUMENTATION TITLE: IAW C.7.12.4& CDRL A036</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p>		EA	\$ ** NSP **	\$ ** NSP **
A037	<p><u>DESIGN CHANGE NOTICCE (DCN)</u></p> <p><u>Description/Specs./Work Statement</u> PROCUREMENT DOCUMENTATION TITLE: IAW C.7.15 & CDRL A037</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p>		EA	\$ ** NSP **	\$ ** NSP **

Name of Offeror or Contractor:

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 GENERAL

C.1.1 The contractor, as an independent contractor and not as an agent of the Government, shall provide the supplies and services required by this Statement of Work (SOW), as required by Delivery Orders issued by the Contracting Officer under this contract.

C.1.2 The Load Handling System Compatible Water Tank-rack System (hereinafter referred to as the Hippo is a potable water tank-rack for use on the Heavy Expanded Mobility Tactical Truck- Load Handling System (HEMTT-LHS), Palletized Loading System (PLS) truck, and PLS trailer. The Hippo has a minimum capacity of 2000 gallons of water. The system is designed for rapid deployment and recovery, and can be transported carrying both full and partial water payloads. The Hippo is outfitted with a water pump, hose reel, filling station, and freeze prevention capability. It is capable of bulk self-load and discharge, distribution, and bulk storage of potable water. It is transportable over primary, secondary unimproved roads, and cross-country terrain. The Hippo meets International Organization of Standards (ISO) shipping container requirements to allow worldwide intermodal shipping.

C.2 APPLICABLE DOCUMENTATION

C.2.1 SPECIFICATIONS AND STANDARDS

To the extent that this statement of work references industry and government standards and specifications, such standards and specifications are incorporated by reference.

Exhibit A, Contract Data Requirements List (CDRL), contains references to government Data Item Descriptions and other documents. These documents are available at:

<https://assist.daps.dla.mil/online/start/>

This web site provides an on-line registration process by which contractors may obtain a password.

C.3 SYSTEM REQUIREMENTS AND CHARACTERISTICS

C.3.1 HARDWARE

The Contractor shall deliver hardware as follows:

C.3.1.1 The Contractor shall deliver Hippo systems in accordance with the requirements of Automotive Tank Purchase Description (ATPD) 2319 Revision D (the "PD") attached as (Attachment 7).

C.3.1.2 Basic Issue Items (BII): Each Hippo system shall include an over-packed set of B I I. The contents of the BII shall be as set forth in the Logistic Management Information Data Product delivered as CDRL A031.

C.3.1.3 Prescribed Load List (PLL) Items: Each Hippo system shall include an over-packed set of PLL Items. The contents of the PLL shall be as set forth in the Logistic Management Information Data Product delivered as CDRL A014.

C.3.1.4 Authorized Stockage List (ASL) packages: The contractor shall deliver packages of ASL items. The contents of the ASL shall be as set forth in the Logistic Management Information Data Product delivered as CDRL A014.

C.3.1.5 Special Tools: The contractor shall deliver packages of Special Tools. The contents of each package of special tools shall be as set forth in the Logistic Management Information Data Product delivered as CDRL A052.

C.3.1.6 System Support Packages (SSPs): The Contractor shall deliver System Support Packages to support Government testing. The Contractor shall deliver an SSP to support FAT, a second SSP to support Operational Test (OT), and a third to support logistic demonstration. The contractor shall deliver the SSPs with an inventory list to the government test site 60 days prior to the start of each Government test. The contents of each package shall be as set forth in CDRL A016, System Support Package Component List.

C.3.1.7 Cleaning Kits: The Contractor shall deliver cleaning kits sufficient to perform the cleaning procedures developed by the Contractor called out in 3.5.18 of ATPD 2319D for 12 cleanings.

C.3.2 CHEMICAL, BIOLOGICAL, RADIOLOGICAL, AND NUCLEAR (CBRN) COMPATIBILITY ANALYSIS

The contractor shall conduct a CBRN analysis to ensure system components are CBRN agent/decontaminant survivable. The contractor shall prepare and submit a report, containing all analyses results, IAW CDRL A006.

C.3.3 TRANSPORT

Name of Offeror or Contractor:

C.3.3.1 Transportability Report: The contractor shall submit a transportability report for the Hippo that provides dimensional and weight characteristics, and data relevant to lifting, slinging, and transporting the system by highway, rail, marine, and air, IAW CDRL A007.

C.3.3.2 Air Transport When Full Report. The contractor shall submit a report illustrating how the Hippo will meet the air transport when full performance and test requirements defined in ATPD 2319D. The contractor shall prepare and submit this report IAW CDRL A008.

C.3.4 SYSTEM SAFETY

C.3.4.1 Safety Engineering. The Contractor shall apply the standard safety practices as described in MIL-STD-882D, section 4 General Requirements.

C.3.4.2 Safety Assessment Report (SAR). The Contractor shall prepare a SAR in accordance with CDRL A010.

C.3.4.3 A system safety management program shall be established and maintained throughout the program cycle. The contractor can use attachment 8 (system safety program guide) in setting up and maintaining the program.

C.3.4.4 System Safety Program Plan (SSMP). The contractor shall prepare the Safety Assessment Plan in accordance with CDRL A009. This plan details the task and activities of system safety management and system safety engineering required to identify, evaluate, and eliminate or control hazards throughout the changes from the baseline configuration. The System Safety Program Plan describes fully the planned safety tasks and activities required to meet the System Safety Program requirements.

C.3.5 ENVIRONMENTAL COMPLIANCE

C.3.5.1 Environmental Compliance. The Contractor shall ensure that all aspects of contract execution are in compliance with Federal, State, and Local environmental regulations and requirements. The Contractor shall immediately notify the Contracting Officer if the Government gives any direction that may result in violation of law or regulation.

C.3.5.2 For the purposes of this contract, hazardous materials shall be defined by FED-STD-313, Section 3.2. Hazardous materials usage shall be in accordance with section 3.3.4 of the PD, and 52.223-3, Hazardous Material Identification and Material Safety Data, of the solicitation/contract..

C.3.5.3 Hazardous Materials Management Report (HMMR). The Contractor shall deliver a HMMR, which shall identify all hazardous materials delivered on the vehicle or required for operation and sustainment, specifying the part(s) containing the hazardous material. The HMMR shall also identify all hazardous materials used in final system manufacture and assembly, specifying the process(es) utilizing the hazardous material. The HMMR shall be delivered in accordance with CDRL A012.

C.3.6 RELIABILITY AND MAINTAINABILITY (R&M)

The Contractor shall establish and maintain an R&M management program throughout the program cycle. The program shall require analysis and predictions that assess and influence the Hippos ability to achieve the R&M requirements of the purchase description and develop essential information for the development of the Hippo logistics support package. The R&M program shall be briefed at the start of work meeting.

C.4 MEETINGS/CONFERENCES/REVIEWS**C.4.1 General Meeting Requirements:**

C.4.1.1 The Contractor and the Government will have meetings and reviews during the contract performance period as set forth below. The contractor shall provide an agenda prior to each meeting in accordance with Contract Data Requirements List Data Item A011. The Contractor shall take minutes of all the meetings in accordance with CDRL A001.

C.4.1.2 When meetings or conferences are held at the Contractors facility, the Contractor shall make the following available for the Governments use:

- a. Required technical, logistical or other documentation (including drawings, computer data bases, publications, and other required data)
- b. Computer resources, as required
- c. Restrooms
- d. Adequate office space
- e. Access to standard office equipment including copy and fax machines

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C.4.2 Start of Work Meeting

Within thirty (30) days after contract award, a Start of Work Meeting shall be held at the Contractors facility. Contractor attendees shall include contract administration personnel, management, engineers, and logistics personnel. The Contractor shall brief, in their format, critical paths/and milestones necessary to meet contractual requirements. The briefing shall include a review of publications requirements, and a schedule of publications-related events. The briefing shall identify key functional Contractor personnel involved in this contract.

C.4.3. Contract Status Reviews

The Contractor shall host quarterly meetings, at the contractors facility, to review contract status. These reviews shall be for one eight-hour day. Topics to be discussed shall consist of contract status, testing, production, logistics engineering, and deliverables.

C.4.4 Test Readiness Review (TRR).

The Contractor shall conduct a TRR, at the contractor's facility, for the purpose of demonstrating to the Government that the Hippo is ready for First Article Test (FAT). The TRR shall occur within 3 weeks of successful completion of contractor confidence testing. The design presented at the TRR shall reflect the resolution of all deficiencies identified during contractor confidence testing. The TRR shall include a detailed review of the Hippo system design and illustrate the system meets the performance requirements of Hippo ATPD 2319D (Attachment 7). The TRR shall conclude with a functional walk-through and demonstration of an actual Hippo production unit. The demonstration shall provide an overview of the physical, functional, and operational characteristics of the Hippo.

The contractor shall deliver an agenda for the TRR in accordance with CDRL A005, and a TRR report in accordance with CDRL A051.

C.4.5 Publications Conferences

C.4.5.1 A publications start-of-work meeting will be held by the government with the contractor within the first month after contract award. This meeting may be a sub-meeting of an overall contract start-of-work meeting or a stand-alone meeting, and can be telephonic. The purpose of this meeting is to review publications contract requirements, establish lines of communications, answer all questions, and develop a publications schedule based on the requirements of the program and the contract.

C.4.5.2 Publications In-Process Reviews. The contractor shall support government In-Process Reviews, to be held not more than once per month, by providing samples of work accomplished to date, answering questions about your publications work processes, and responding to government comments regarding your publications processes or work samples.

C.4.6 Provisioning Conferences

C.4.6.1 Provisioning Conferences: An initial Provisioning Conference will be held within 60 days after Start of Work Meeting. Incremental Provisioning conferences will be held every 60 days thereafter at the contractors facility, unless otherwise directed by the Government, until provisioning is complete. Final conference will be held within 60 days prior to submittal of the Final Draft Equipment Publication (FDEP) to review for data integrity and to make corrections to any discrepancies found in the Provisioning Master Record (PMR) data. Initial Provisioning Conference will be a maximum of 5 working days with no more than 1500 items presented for review IAW CDRL A035.

C.4.6.2 Provisioning Conference Support: The Contractor shall make available two hardcopies of Logistics Management Information/Provisioning Parts List (LMI/PPL) data and a hardcopy of the Engineering Data for Provisioning (EDFP) drawings at each provisioning conference.

C.5 TEST AND EVALUATION

C.5.1 Pre-FAT Confidence Testing

C.5.1.1 Prior to delivery of First Article Test (FAT) units, the contractor shall perform a limited low temperature test in accordance with ATPD 2319D paragraph 4.1.4.2. The contractor shall also deliver a Hippo unit to the Tank-automotive and Armaments Command (TACOM) for Limited Durability Testing in accordance with ATPD 2319D paragraph 4.1.4.1. All failures experienced during test shall be thoroughly documented and analyzed by the contractor, and include corrective action taken to preclude recurrence. Failure analysis and corrective action data shall be submitted IAW CDRL A013(FACARS). Repeat testing may be required to validate corrective actions. Following the tests, the contractor shall develop and submit a test report IAW CDRL A015. All Hippos used for confidence testing shall be complete, and be of the same FAT-ready configuration.

C.5.1.2 The Government reserves the right to witness all contractor-conducted testing, inspections, and checks. Failure to pass Pre-FAT

Name of Offeror or Contractor:

confidence testing may delay the start of FAT.

C.5.2 SUPPORT OF GOVERNMENT TESTING**C.5.2.1 System Support Package Component List (SSPCL)**

The contractor shall deliver a SSPCL IAW CDRL A016.

C.5.2.2 Contractor Service Support (CSS)

C.5.2.2.1 The Contractor shall provide Contractor Support Representatives (CSRs), to be physically present at the test sites at all times during FAT and Logistics Demonstration (LD). All CSRs must be Subject Matter Experts (SMEs) on the Hippo. Contractor shall complete the following requirements during FAT and LD

C.5.2.2.2 Review the FAT/LD plan and have familiarity with daily testing operations. The plans will be provided as Government Furnished Information (GFI).

C.5.2.2.3 . The Contractor shall provide at least one CSR at the test sites while testing the Hippo. CSR shall provide operational and maintenance support of the Hippo, ordering of repair parts, communications link between the testing community and the contractor, conduct 100% pre and post inspection and inventory of the Hippo with the test team present, conduct familiarization training of the Hippo to the test team identifying operational, maintenance, and purging procedures, participate in meetings pertaining to testing, and maintain daily log of all support provided. All cost for additional contractor service support during retest due to failure or disapproval of test shall be borne by the contractor.

C.5.2.2.4 Perform an operational walk-through and demonstration of the Hippo prior to the test to ensure that all parts of the Hippo are functional

C.5.2.2.5 Identify and correct any equipment failures that may occur during testing. The contractor shall ensure that the equipment is promptly ordered and repaired within 48 hours of identification of equipment failure. The contractor shall perform maintenance of the Hippo required to properly perform the tests and to protect the system during its use. The Contractor shall analyze test data, conduct failure analysis, and maintain a data tracking system throughout all test efforts. After completion of the effort, the contractor shall provide services including labor sufficient to prepare the Hippo for shipment.

C.5.2.2.6 Insure all coordination is made with the appropriate personnel in order to secure test site access.

C.5.2.2.7 De-processing. CSR shall perform on-site preparation of equipment at the test sites, including operator and maintainer Preventive Maintenance Checks & Services (PMCS). Upon completion of de-processing, the Hippo shall be 100% fully mission capable.

C.5.2.3 Failure Analysis and Corrective Action Reporting System (FACARS)

C.5.2.3.1 The contractor shall be responsible for accessing the Army Test Incident Reporting System (ATIRS) database to obtain the Test Incident Reports (TIRS) generated on the equipment during FAT. TIRs are the means by which data collected during government testing will be reported. Information on access to ATIRS, and points of contact at ATC are available on the web at: <http://www.vision.atc.army.mil>. The contractor's date of receipt of the TIR shall be defined as the day the TIR is posted to the database. Upon receipt of a TIR, the contractor shall assess the failure, and shall furnish a response IAW CDRL A013 Failure Analysis and Corrective Action Report, with the proposed corrective action to prevent or minimize the probability of incident recurrence. The proposed corrective action will be submitted to the FACAR review board for approval and the contractor shall input the approved corrective action report to the ATIR database through the web. The ATIR database access for the corrective action reporting will be gained by applying to the ATC website. Following the completion of FAT, the contractor shall submit a final FACAR report IAW CDRL Number A055.

C.5.2.4 Reliability and Maintainability (R&M) Scoring / Assessment Conferences

Each TIR will be scored per the criteria contained in Attachment 1- Failure Definition/Scoring Criteria. Corrective actions proposed by the contractor for each FAT incident classified as a R&M failure are assessed for effectiveness at preventing recurrence of that failure. The contractor shall support Government Scoring/Assessment Conferences by briefing members about engineering changes and modifications made to the Hippo as a result of failures. A minimum of two Government Scoring/Assessment Conferences shall be held, one midway through FAT and one after completion of FAT. Government Scoring/Assessment Conference will be conducted at Government test locations. At least ten (10) days advance notice will be provided to the contractor prior to the conduct of the scoring conferences.

C.5.2.5 The Government must approve corrective actions before contractor implementation.

C.6 CONFIGURATION MANAGEMENT

Name of Offeror or Contractor:

C.6.1 CONFIGURATION MANAGEMENT (CM): The contractor shall establish a CM program for configuration management and control of the Hippo. Configuration control methods and procedures shall be implemented that maintain the integrity, traceability, and history of the established production baseline. The contractor shall establish a production baseline upon successful completion of FAT. Documentation shall be maintained for all changes made to the production baseline, including all affected part numbers, assembly numbers, and equipment serial numbers.

C.6.1.1 The Contractor shall notify the Government of any changes to their established CM process, as well as any changes to their facilities that will impact the established CM process. The Contractor shall document all elements of their configuration management program in a CM Plan. The Government shall have the right to review the contractor's CM plan at any time.

C.6.2 ENGINEERING CHANGES - CONTRACTOR INITIATED.

C.6.2.1 Engineering Change Proposals (ECPs) submitted by the Contractor shall be prepared and delivered in accordance with CDRL A017. All Class I ECPs shall require written Government approval prior to implementation. Class II ECPs do not require Government pre-approval. Any Engineering Change Proposal (ECP) that impacts packaging shall include a packaging impact statement and assessments for items requiring special handling, storage or condemnation, HAZMAT, shelf life, and transportability problem items. Any ECP that impacts safety shall be accompanied with an updated SAR (CDRL A010).

C.6.2.2 VALUE ENGINEERING CHANGE PROPOSAL (VECP)

The contractor shall prepare VECPs in the same manner as Class I ECPs (CDRLA017).

C.6.2.3 REQUESTS FOR DEVIATION (RFD)

The contractor shall submit Requests for Deviation (RFD) from the current approved production baseline IAW CDRL A018, Authorized deviations are a temporary departure from the requirements and do not constitute a permanent change to the approved production baseline.

C.6.2.4 NOTICE OF REVISION

The contractor shall generate and submit Notices of Revision (NOR) concurrently with Engineering Change Proposals (ECPs) when associated technical documentation requires change. NORs shall be prepared in accordance with CDRL A019.

C.6.2.5 GOVERNMENT REVIEW

The Government may require the Contractor to perform additional tests to verify acceptability of any contractor-initiated change. The Government will determine the extent of required testing, up to and including a complete PVT, for that change.

C.6.2.6. RESPONSIBILITY FOR DATA REVISION

Unless otherwise authorized, within 45 business days of making any contractor-initiated configuration change, the Contractor shall submit, at no cost to the Government, revisions to all affected contractual data deliverables.

C.6.2.7 RESPONSIBILITY FOR FAILURES DUE TO CHANGES

The Government's acknowledgement and acceptance of a Contractor-initiated change does not relieve the Contractor from its responsibility to furnish all items in conformance with the contract performance requirements.

C.6.2.8 RESPONSIBILITY FOR THE COST OF CHANGES

The responsibility for the cost of changes is as follows:

C.6.2.8.1 The Government is not responsible for additional testing or software costs associated with any Contractor initiated configuration change. The Contractor shall perform such tests at no additional cost to the Government.

C.6.2.8.2 When a change results in reduced Contractor costs, the Government may, at the sole discretion of the Contracting Officer, require an equitable downward adjustment to the contract price.

C.6.2.8.3 The Government is not liable for any costs the Contractor may incur, due to delay in contract performance, as a result of a Contractor request for change. Further, any production or delivery delays caused by additional Government-required testing and inspection will not be the basis for an excusable delay as defined in the default clause of this contract. Such delays shall not form the basis for adjustment in contract price or delivery schedule.

C.6.3 ENGINEERING CHANGES - GOVERNMENT INITIATED

In the event the Government desires a change to the end item configuration, the Contracting Officer will request, in writing, a

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technical/price proposal from the contractor.

C.6.4 CONFIGURATION STATUS ACCOUNTING

The contractor shall establish and maintain a Configuration Status Accounting (CSA) program that allows the configuration of the Hippo system to be tracked. The CSA program shall provide serialized hardware identification that provides a clear audit trail back to documented changes, cut-in points, and other configuration-related technical documentation. A record of all configuration changes shall be maintained, whether or not the change affects form, fit, or function. CSA data shall be available for Government inspection any time during contract performance. CSA data shall be formatted and delivered in accordance with CDRL A020, Configuration Status Accounting.

C.6.5 PHYSICAL CONFIGURATION AUDIT (PCA)

C.6.5.1 A Physical Configuration Audit (PCA) shall be performed to verify that the models and drawings in the Hippo TDP, and other applicable technical documents, are fully defined and reflect the "as-designed, as-built" system. The PCA shall also confirm that all changes or corrections resulting from Government testing have been implemented, and verify that accurate form, fit, function, and interface information is provided in the TDP for non-developmental or commercial off-the-shelf (COTS) items. The contractor shall conduct the PCA at his or her facility, and/or sub-contractor's facility, against the TDP and other technical documents utilized to fully define the production baseline, with the Government witnessing the audit(s).

C.6.5.2 The PCA shall be conducted incrementally, concurrent with the fabrication and assembly of Hippo sub-systems, and final assembly of a Hippo unit. The Contractor's plan that provides the sub-system/Hippo to be audited, facilities, personnel, documentation (including models and drawings from the TDP), and other support as may be required, shall be provided to the Government on request. The Contractor shall document the results of each audit, including all discrepancies found, in the Configuration Audit Report. In the event the Government or Contractor finds evidence that the TDP and/or other technical documents do not adequately represent the material, production shall cease until all discrepancies are corrected, subject to Government review and approval, and, written permission is granted by the Government to resume production. The PCA report shall be formatted and delivered in accordance with CDRL A021, Configuration Audit Summary Report (Physical). The Contractor shall incorporate changes or corrections to the models, drawings and associated technical data resulting from the PCA, into the Hippo TDP.

C.6.6 TEST ARTICLE REFURBISHMENT

Upon issuance of a delivery order, the test articles used during FAT shall be refurbished by the contractor. Refurbishment shall be completed within ninety (90) days after receiving Government authorization to do so. Refurbishment includes complete cleaning and touch-up repainting of the test articles, repair and replacement of any worn or damaged parts to bring the units to a fully mission capable condition. If the Government chooses not to refurbish a test unit, it will provide disposition instructions to the Contractor. Parts removed from refurbished units that are salvageable shall be packaged and shipped as directed by the Government.

C.6.7 RETROFIT OF NON-TEST ARTICLE UNITS

After completion of the FAT and Physical Configuration Audit (PCA), the contractor shall retrofit all non-test article Hippo units build before, or in the process of being built at the time of PCO notification of FAT approval, to the configuration that successfully completed FAT; provided that, in no event shall the contractor acquire materials or commence production prior to first article approval in the absence of written authorization from the Contracting Officer as required by paragraph (h) of FAR 52.209-4 set forth below. Retrofit includes application of all approved corrective actions and engineering changes to bring the Hippo units to the product baseline configuration. Unless specified otherwise by the Government, retrofit of all applicable Hippo units shall be completed within ninety (90) days of FAT approval notification.

C.6.8 BILL OF MATERIALS

The contractor shall maintain a Bill Of Material (BOM) that accurately reflects the production baseline configuration of the Hippo. The BOM shall be delivered IAW CDRL A004.

C.7 MAINTENANCE PLANNING AND PROVISIONING

The contractor shall perform maintenance planning and provisioning tasks in accordance with two-level maintenance concept as set forth in AR 750-1.

Two Level Maintenance consists of:

Field Level Maintenance is on-system maintenance and is mainly the replacement of defective parts and the accomplishment of preventative maintenance. Field maintenance returns repaired equipment to the soldier. It covers crew and maintainer maintenance tasks. Some off-system maintenance can be done at field level if, based on task analysis, it is simple to complete or is critical to mission readiness.

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Sustainment Level Maintenance comprises below depot and depot level maintenance functions. Sustainment maintenance consists of repairing components, assemblies, modules, and end items in support of the supply system. Sustainment maintenance is characterized as off-system and repair rear. The intent of this level is to perform commodity-oriented repair on all supported items to one standard that provides a consistent and measurable level reliability.

C.7.1 Maintenance Planning and Analysis: The Contractor shall analyze the operation, maintenance, and support function of the system in identification of required operator and maintenance tasks. Maintenance of the Hippo and any requirements in support of the Hippo as a whole will be driven by the two-level maintenance concept; Field and Sustainment. This analysis shall be documented in accordance with CDRL A025.

C.7.1.1 The Maintenance Analysis (reference Attachment 5) shall determine maintenance requirements, including all Preventative Maintenance Checks and Services (PMCS), based on:

- a. Identification of components which are critical in terms of mission and operating system.
- b. Components whose functional failure will not be evident to the operator.
- c. Economical and/or operational consequences of failure.
- d. Where scheduled maintenance can prevent failures.

C.7.1.2 Provisioning Contract Control Number (PCCN) and Provisioning Control Code (PCC) will both be furnished by the Government at the Start of Work Meeting.

C.7.2 SUPPORTABILITY ANALYSIS: The Contractor shall develop a supportability analysis as part of the overall management and engineering process for the Hippo. This analysis shall address the supportability requirements of the Hippo in terms of operation and maintenance task requirements and the associated support resources. The contractor shall document the results of the supportability analysis in contractor format in accordance with CDRL A028.

C.7.3 LEVEL OF REPAIR ANALYSIS (LORA): The Contractor shall conduct a LORA for the Hippo. This analysis shall determine the maintenance level at which the item should be repaired or replaced with an evaluation threshold for Field and Sustainment. The Contractor shall include economic and non-economic criteria in this analysis. Non-economic criteria that could impact the level of maintenance decision include, but are not limited to: manpower and personnel implications, support equipment and facilities available, and the maintenance concept. Results of this analysis shall be documented in the Maintenance Allocation Chart (CDRL A029) and Technical Manuals, (CDRL A038). The Contractor shall provide LORA data in accordance with CDRL A053

C.7.4 MAINTENANCE ALLOCATION CHART (MAC): The Contractor shall submit the MAC in accordance with MIL-STD-40051-2 and CDRL A029. The MAC is a living document that forms the basis for provisioning and technical manual development. Its final approval will be concurrent with final TM approval for all manuals. The MAC shall identify the maintenance functions that must be performed, the maintenance levels responsible for the function, the active service time, tools and test equipment necessary to perform the function for each maintenance significant assembly, subassembly, and component in Functional Group Code sequence. The MAC shall include all maintenance significant components, assemblies, subassemblies and modules. Items requiring a test procedure before replacement shall also be listed on the MAC. No item will be deleted from the MAC unless the contractor is specifically authorized by the Government. See Attachment 6 for an example of the MAC header with the Army's two levels of maintenance incorporated.

C.7.5 LONG LEAD TIME ITEMS (LLTI) LIST: The Contractor shall provide a Long Lead Time Items (LLTI) list (CDRLA030), containing items, that because of their complexity of design, complicated manufacturing processes or limited production capacities, may cause extended production or procurement cycles beyond 180 days, resulting in untimely and inadequate delivery, if not ordered in advance of normal provisioning.

C.7.6 BASIC ISSUE ITEMS (BII) LIST: The Contractor shall provide a Basic Issue Items (BII) List IAW CDRLA031. BII are those items identified as essential for an operator or crew to place the Hippo into initial operation to accomplish its defined mission. These items are essential to perform emergency repairs which cannot be deferred until completion of an assigned mission and routine maintenance. The BII includes those selected common and special purpose tools, TMDE, spare and repair parts, Operator publications, first aid kits, and safety equipment (for example fire extinguishers) authorized for the Hippo. Although spare and repair parts are not normally included in BII, exceptions may be made to meet the criteria above.

C.7.7 AUTHORIZED STOCKAGE LIST (ASL)/PRESCRIBED LOAD LIST (PLL): Contractor shall provide recommended listing of ASL and PLL items to the Government at the final provisioning conference IAW CDRL A014

C.7.8 EXPENDABLE AND DURABLE ITEMS LIST (EDIL): The Contractor shall generate a list which defines the expendable/durable supplies and materials required for operating and maintaining the Hippo IAW CDRL A032.

C.7.9 COMPONENT OF END ITEM (COEI) LIST: The Contractor shall provide a Component of End Item (COEI) List (CDRL A033). These items are part of the End Item that must be with the End Item whenever it is issued or transferred between property accounts. All COEI

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are removed and separately packaged for transportation. .

C.7.10 TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (TMDE) LIST: The contractor shall deliver a list of Support Equipment Tools and Test Equipment (STTE) required to maintain the Hippo. The source data for this list will be the Maintenance Analysis. The list shall be in tabular form and shall identify special tools and Test, Measurement, and Diagnostic Equipment (TMDE) not contained in the authorized U.S. Army Supply Catalogs. Maximum use of common tools, support equipment, and TMDE normally organic to the user is required. The list shall provide Nomenclature, CAGE Code, National Stock Number (NSN), if assigned, Part Number (PN), level of maintenance, and price of each item on the list. The Contractor shall deliver an STTE List in accordance with CDRL A034. New TMDE items (those not identified in U.S. Army Supply Catalogs) may require special source and calibration documentation in order to update/ provide data for possible inclusion to the TMDE register (DA PAM 700-21-1). The contractor shall provide all required data for all new TMDE.

C.7.11 Special Tools: The contractor shall provide a list of special tools IAW CDRL A052.

Special tools are not identified as components in a units authorized Sets, Kits, and Outfits (SKO) Supply Catalogs (SCs). Special tools include:

- 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.
- 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. Tools and TMDE required to maintain or diagnose the Hippo that are not available in the units authorized SKO SC.

C.7.12 PROVISIONING PROGRAM

C.7.12.1 The contractor shall deliver Engineering Data for Provisioning (EDFP) IAW CDRL A024.

C.7.12.2 The contractor shall deliver PPL data IAW CDRL A035.

C.7.12.3 All submissions of the LMI/PPL data must be compatible with our Logistics Modernization Program (LMP). The data shall be capable of being loaded into our Provisioning Master Record (PMR) without any modifications to the data. Each incremental submission shall have at least 800 lines, but no more than 1500 lines. The Government, prior to submission, may authorize deliveries of less than 800 lines. Each incremental submission must include at least one major assembly. All submissions will be labeled initial, changes, deletions or any combination of the three transactions. The Contractor shall ensure that only those items that are repair parts or part of the end items top-down generation breakdown will be loaded in the PMR. The Government will reject all others.

C.7.12.4 The Contractor shall conduct Pre-Procurement Screening (PPS) for all items to be provisioned using the Federal Logistics Information System (FLIS) for standardization or NSN assignment of all P source coded items. Provisioning and Other Pre-Procurement Screening Data is used to select valid part numbers, NSNs, and current unit of measure/issue prices for provisioning purposes. The PPS shall be formatted and delivered in accordance with CDRL A036. The PPS will be made available to Government representatives at each provisioning conference, and will be upgraded along with the PPL.

C.7.12.4.1 For additional information on how to submit batch requests to DLIS, refer to the Provisioning Screening User Guide at [*HYPERLINK "http://www.dlis.dla.mil"](http://www.dlis.dla.mil)www.dlis.dla.mil.

C.7.12.4.2 Provisioning Screening results will be available at each Provisioning Conference to support the level of provisioning submittal under review. The data shall be capable of being loaded into the Provisioning Master Record (PMR) without any modifications to data. No errors are allowed. All submissions will be labeled as Initial, Revised, or Final submissions.

C.7.12.5 The PPL shall be used to determine the range and quantity of support items required for maintenance and repair of the End Item. This includes all repairable Commercial Off The Shelf (COTS) items, unless excluded by the Government. The PPL shall contain all tools, test equipment, repair kits and repair parts sets required to maintain the End Item, component or assemblies equipment, unless excluded by the provisioning requirements. The PPL shall be formatted and delivered IAW CDRL A035.

C.7.13 National Maintenance Work Requirements (NMWR)

C.7.13.1 NMWR Candidate List: The Contractor shall deliver a NMWR candidate list consisting of all parts coded for repair at the Below Depot Level of Maintenance or above, IAW CDRL A026.

C.7.13.2 NMWR Data Summary: The Contractor shall perform a data summary for components on the Government approved NMWR candidate list. The NMWR Data summary shall be delivered IAW CDRL A027.

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C.7.14 LOGISTICS DEMONSTRATION

C.7.14.1 The Government shall conduct a Logistics Demonstration (LD). The LD is a nondestructive disassembly and reassembly of a Hippo. System peculiar/specific Test, Measurement and Diagnostic Equipment (TMDE) and support equipment will also be tested to determine their logistic status. The LD shall include performance of all the operation and scheduled maintenance tasks required for the Hippo as related to:

- a. The achievement of maintainability goals.
- b. The adequacy and suitability of tools and test equipment.
- c. Maintenance instructions and personnel skill requirements.
- d. The selection and allocation of repair parts, other equipment, and tasks to appropriate maintenance levels, and the adequacy of maintenance time standards.

C.7.14.2 The Contractor shall supply a system support package and, technical manuals required to perform the LD tasks. The Contractor shall provide technical support to the Government in the performance of the LD effort. The Contractor shall provide the facilities to support the LD. These facilities shall consist of an operations site, a shop area equipped with lifting equipment, and all of the tools and diagnostic equipment required to perform all operations and maintenance tasks.

C.7.15 Design Change Notice (DCN) REQUIREMENT

C.7.15.1 The Contractor shall submit Design Change Notices in accordance with CDRL A037.

C.7.15.2 DCN's shall document any configuration changes after FAT which have been approved by the appropriate Government authority and shall require the following actions:

- a. DCN's will be submitted with EDFP and will be incorporated in the Final PPL.
- b. DCN's will be incorporated into Technical Manuals, provided approval verification is received from the Government.
- c. DCN data will be provided to the Government by completion of data blocks as shown by the LMI Data Requirements Form in Attachment 9.
- d. DCN's will be supplied for changes to equipment or parts supplied by the Contractor during the life of this contract.

C.8 TECHNICAL PUBLICATIONS

C.8.1 The Contractor shall develop Department of the Army Technical Manuals (DATMs) and Electronic Technical Manuals (ETMs) for the Hippo IAW Publications Requirements (Attachment 11); Department of the Army Repair Parts and Special Tools List (DA RPSTL) Requirements (Attachment 12); Technical Manual (TM) Requirements Matrix (Attachment 13, Equipment Publications Defects List (Attachment 14), and CDRLs A038, A039, and A040 . The current version of Military Standards (MIL-STDs) 40051-2A and Military Handbook (MIL-HDBK) 1222-C at time of contract award shall be used.

C.8.2 Technical Manual Deliverables: All publications deliverables shall be delivered to:

US Army TACOM
6501 East 11 Mile Road
ATTN: AMSTA-LCC-JL (Christinae Murray)
Mail Stop 921
Warren, MI 48397-5000

C.8.3 The following manual(s) shall be developed:

TM 10-XXXX-XXX-13&P Operator and Field Maintenance Manual including
Repair Parts and Special Tools List (RPSTL) IAW CDRL A038.

TB 5-3895-xxx-xx Long Term Storage Technical Bulletin IAW CDRL A041

C.8.4 Data Rights: Per 10 USC \a7 2320, equipment publications content prepared under this contract shall be delivered with unlimited rights to the Government for reproduction, use and distribution based on that fact that the data is necessary for installation, operation, maintenance or training as described in paragraph (b)(1)(v) of DFARS 252.227-7013. If any content includes copyrighted material, the contractor shall furnish copyright release for that data. Refer to DOD FAR Supplement, Warranty of Data; paragraph 252.246-7001 for warranty of data requirements and invocation stipulation.

C.8.5. 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 connected. 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

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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.8.6 PUBLICATIONS QUALITY ASSURANCE (QA)

C.8.6.1 The Contractor shall be responsible for the quality of the TM deliverables. All delivered TM information shall be complete, technically accurate, and useable by US Army soldiers.

C.8.6.2 Equipment Publications Defects List. The Contractor shall review and utilize the Equipment Publications Defects List, Attachment 14, 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.8.6.3 Acceptable Quality Level (AQL). The Governments goal is to ensure that the Contractor has performed sufficient Quality Assurance to eliminate from the TM all defects as defined in the Equipment Publications Defects List (Attachment 14). 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 manual; 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.

Acceptable Quality Levels:

<u>TM Size</u>	<u>Sample Review Size</u>	<u>% Critical Errors</u>	<u>% Major Errors</u>	<u>Rejected</u>
Less Than 50 WPs	All WPs	10 %	25 %	Yes
50 or more WPs	25 % of Total WPs	10 %	25 %	Yes

C.8.7 VALIDATION:

C.8.7.1 Contractor Validation. The Contractor shall validate the technical accuracy and adequacy of all 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 the entire or selected portions of the Contractors Validation effort.

C.8.7.2. All Operation, Preventive Maintenance Checks and Services (PMCS), Troubleshooting, and Maintenance procedures shall be 100 percent hands-on validated to ensure accuracy, compatibility, and completeness. Troubleshooting procedures shall be validated to the extent possible without damaging equipment. All performance validation shall be done using 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 Hippo configuration only, including any and all changes to the configuration resulting from testing, vendor parts supply, and production-line changes. Other 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 and/or Government-procured production configuration hardware.

C.8.7.3 The Contractor shall deliver a TM Validation Plan IAW CDRL A039.

C.8.7.4 A Validation Report shall be delivered after Validation completion, IAW CDRLA040.

C.8.8 VERIFICATION:

C.8.8.1 Government Verification. The Government is responsible for Verification of 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 manual is adequate for Verification. Verification may consist of actual handson performance of up to 100 percent of Operator and Maintenance procedures. The Government has the right to verify the TM by desktop review, review on equipment, actual performance, or any combination of these methods. The Government intends to verify by performance to the extent required to ensure that the Contractor has properly prepared and validated TM content.

C.8.8.2 The Contractor shall provide support to the Government Verification process. This support shall consist of facilities; tables; chairs; Contractor personnel to perform and provide record keeping, equipment preparation, and equipment maintenance; mandatory replacement parts supply; consumables (rags, fluids, lubricants, sealants, etc.) supply; Government-issued tools; and Contractor-provided special tools.

C.8.8.3 The Contractor shall also provide Contractor TM personnel to take notes of all corrections required, to answer questions, to review Verification issues, and to advise the Government regarding erroneous changes or recommendations that arise during Verification. The Contractor shall also 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.

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C.8.8.4 The contractor shall correct and return for re-verification within 24 hours any Work Package determined by the government to be a NO-GO, or unable to be performed by the Target Audience as written.

C.8.8.5 The Contractor shall correct all errors found in 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.8.9 TM Packaging/Shipping: The TM shall be preserved in accordance with MIL-STD-2073, method 31 or 33, and shipped with each Hippo. The Government will print the manuals and provide copies to the Contractor. The Contractor is responsible for over-packing one printed manual with each Hippo. The Hippo shall not be shipped without the Government-printed manuals.

C.9 MILITARY PACKAGING DEVELOPMENT AND DOCUMENTATION

C. 9.1 Technical Bulletin (TB) for Shipping and Storage (S&S) Instructions

C.9.1.1 Shipment and Storage (S&S) Instructions: The Contractor shall provide and update S&S instructions. When preparing the shipment and storage instructions, the contractor shall ensure those instructions are consistent with the transportability report. Approved S&S instruction shall be included with the TM over pack. Report shall be formatted and delivered in accordance with CDRLA041.

C.9.1.2 Short-Term Transport/Storage Instructions: Short-term transport/storage (180 days maximum in a warehouse) for application when items are in transport. Short-term S&S processing instructions shall be sufficient to protect the items when they are intended for immediate use.

C.9.1.3 Long-Term Storage Instructions: The Government will use these instructions to prepare a system for open storage for a period of up to 2 years. The contractor shall ensure these instructions include any cyclic maintenance and exercising requirements necessary to prevent the system from deteriorating due to inactivity.

C.9.1.4 Compliance with Federal and Industry Transportation Requirements: The Government ships using truck, rail, plane, and ship. The contractor shall develop shipment and storage instructions for these modes of transportation and identify unique requirements for each mode of transport. This will allow the Government to process for shipment based on the intended mode of transport. The contractor shall comply with the applicable codes and standards listed here: (1) Code of Federal Regulation Titles 29, 40 and 49, (2) International Maritime Dangerous Goods Code, for vessel transport, and (3) AFMAN 24-204, Preparing Hazardous Materials for Military Air Shipments. The contractor shall include disassembly procedures to meet the requirements of the codes and standards mentioned above.

C.9.1.5 Packaging Instructions for Basic Issue Items: The contractor shall ensure that the shipment and storage instructions include packaging instructions for the Basic Issue Items (BII) and Components of the End item (COEI). The contractor shall ensure the instructions require that BII shall be packed separately from the COEI.

C.9.1.6 BII and COEI Packaging: The contractor shall identify, in the shipment and storage instructions, provisions for stowage location and security for the BII and COEI. However, HAZMAT COEI will be packaged and shipped separately from the system IAW CFR Title 49. The contractor shall ensure the stowage locations shall deter pilferage and shall not interfere with lifting, tie down or other transportation handling requirements.

C.9.1.7 Updates and Changes to Shipment and Storage Instructions: The contractor shall revise the shipment and storage instructions, resulting from ECPs, to reflect design changes that affect the systems shipment configuration, weight, or transportability. The contractor shall also provide revisions to the shipment and storage instructions for each logistics change affecting packaging instructions for BII and COEI.

C.9.1.8 Validation of Shipment and Storage Instructions: The contractor shall validate the shipment and storage instructions. The purpose of validation is to verify the adequacy of the preservation, packaging, packing and stowage of BII/COEI, preservation procedures for shipment and storage, and the cyclic maintenance requirements for systems in long-term storage. The Government representative will verify and witness your validation procedure. The contractor shall notify the Government 14 days prior to scheduled validation. The final submittal of the Shipment and Storage Instructions (CDRLA041) shall reflect the corrections required as a result of the validation.

C.9.2 Packaging Data Development: In addition to the Shipment and Storage Instructions, the Contractor, shall develop and provide packaging data for all Load Handling System Compatible Water Tank Rack (Hippo) items identified during the provisioning process with a Source, Maintenance & Recoverability (SMR) code beginning with P. Packaging data development priority shall be given to repairable items, Line Replaceable Units, NMWR candidate items, and any large, high cost item classified as a Special Group Item. Packaging shall be developed in accordance with (IAW) MIL-STD-2073-1D and all items shall be classified as a selective group item or special group item. LMI-packaging data is required in accordance with MIL-PRF-49506 and will provide for the entry of information to the Governments computer data base. The LMI-packaging data shall be in an ASCII delimited text format using commas as delimiters. Quotation marks may be used as text qualifiers but are not required. Contractor shall provide facilities, equipment, materials, and access to the provisioned items for packaging development. The Contractor shall complete verification and provide support data with each data

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submittal. Validation support data shall include item drawings and copies of any applicable Material Safety Data Sheets for Hazardous Material items. Items with assigned Contractor and Government Entity (CAGE) Codes of: 1T416, 21450, 80204, 96906, 10060, 24617, 80205, 99237, 80244, 81343, 81346, 81348, 81349, 81352, 88044, 05047 are excluded from packaging data development.

C.9.3 Select (coded) Packaging Data: The contractor shall make LMI packaging data and provide for the entry of information to the Governments data repository. At the Contractors request, the Government may provide a MS ACCESS application that provides data formatting and edit features for coding of packaging LMI data products. The Contractor shall develop, maintain and update packaging data IAW CDRL A042.

C.9.4 Special Packaging Instructions (SPI): The Contractor shall develop SPI for each item classified as a Special group item. National Maintenance Work Requirement (NMWR) candidate items are also considered Special group items. Figures and narrative data shall be developed to describe the form, fit, and function of packaging in sufficient detail for reproduction. Development of SPI for engines, transmissions, differentials, transfers, final drives, drive axles, and similar assemblies shall be packaged in accordance with MIL-STD-2073-1D Appendix C, Level A packing. The SPI for the engine shall include preservation procedures and validation with coordination from TACOM-LCMC packaging office in Warren, MI. ATPD 2232 can be used as a guide and is found at <https://www.ilsc.army.mil/tdps/phst/SPI/05/67/34.pdf><https://www-tdps.tacom.army.mil/phst/SPI/05/67/34.pdf> Packaging processes and materials shall be described for cleaning, drying, preserving, unit, intermediate (as applicable), and exterior packing, marking, and unitization. SPI format shall be IAW CDRL A043. Test results from validation testing of packaging shall be submitted concurrently with SPI submittal and in accordance with CDRL A050.

C.10 TRAINING REQUIREMENTS

The Contractor shall develop training material (courseware) for one course for operator and one course for maintainer for the Hippo. The Contractor shall be responsible for training and all courseware to support it. Training and courseware shall be on the operation, maintenance, and repair of all components and ancillary equipment (if any) unique to the Hippo. The courses shall be supported by a Program of Instruction (POI) listing of all the lessons, descriptions and the length of the lesson. The training shall include any necessary equipment to support operation, Preventive Maintenance Checks and Services (PMCS), and operator and unit maintenance of the Hippo.

C.10.1 Training Course Development and Materials

C.10.1.1 Training Course Outline: The Training Course Outline shall be formatted and delivered in accordance with CDRL A044.

C.10.1.2 Lesson Plans: Instructor Guide and Student Training Guides. The Instructor Guides and Student Training Guides shall be formatted and delivered in accordance with CDRL A045.

C.10.1.3 Training Course Completion Report: The Training Course Completion Report shall be formatted and delivered in accordance with CDRL A046.

C.10.1.4 Course Material Format for Hippo Training Materials. The contractor shall input the final approved Operator and Maintenance Lesson Plans developed under this contract, in support of New Equipment Training (NET), into the approved Training and Doctrine Command (TRADOC) database IAW TRADOC Regulation 350-70. This software is used in support of course design and development for TRADOC Schools. The Government will provide access to the approved TRADOC software.

The contractor shall deliver all course control documents and training materials in an editable approved TRADOC electronic format.

C.10.2 Training Events to Be Provided by the Contractor

C.10.2.1 FAT Operator and Maintainer Training. Training to support the FAT shall consist of one operator and one maintainer familiarization course. The contractor shall conduct FAT training prior to the beginning of the FAT for a maximum of 12 students at a Government test facility. The Government reserves the right to have additional personnel present during the course at no additional cost. These courses shall be targeted to the personnel who will operate and maintain the Hippo system. Instruction shall consist of approximately 30% classroom and 70% practical exercise, and Co-teach operation, setup and disassembly, PMCS, inspection, testing, troubleshooting, and safety procedures. Training shall be developed for personnel with the skills of Army MOS 92W Operator and 91J Maintenance. The contractor shall deliver all lesson materials, training literature, and training aids, to the training site not later than seven days prior to the training.

C.10.2.2 FAT Data Collector and Other Support Personnel Orientation: The FAT data collector and other support personnel orientation is a general overview of the system. The contractor shall develop and conduct an introduction to the system for Government support personnel and data collectors prior to FAT. The orientation will cover system operation and controls required to safely operate the system. The orientation shall be at least 50% hands-on. The maximum length of the orientation class is 8 hours. The orientation shall be conducted at the test site. The contractor may use commercially available material for this course, or use material developed to be used for the test training personnel. The projected class size for this orientation is 12 students, with the option for the Government to have

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additional observers at no additional cost.

C.10.2.3 Logistics Demonstration Operator and Maintainer Training: The contractor shall develop and conduct an introduction to the system for Government support personnel prior to LD. The training will cover system operation and controls required to safely operate the vehicle and selected maintenance tasks. The training shall be at least 50% hands-on training. The length of the training classes will not exceed 24 hours for the operator class and 16 hours for the maintainer class. The training shall be conducted at the contractor's facility. The contractor may use commercially available material for this course, or use material developed to be used for the test training personnel. The projected class size for this training is 12 students in each class at no additional cost.

C.10.2.4 Initial Operational Test and Evaluation (IOT&E) Operator and Maintainer Training. Training to support the Initial Operational Test and Evaluation (IOT&E) shall consist of one operator course and one maintainer course. The contractor shall conduct IOT&E training for a maximum of 12 students in each class at location to be determined prior to the beginning of the IOT&E. The Government reserves the right to have additional personnel present during conduct of course. These courses shall be targeted to the personnel who will operate and maintain the system. The IOT&E courses shall be taught by the contractor utilizing draft courseware. The operator course shall not be more than 24 hours in length; the maintainer course shall not be more than 16 hours in length. The contractor shall deliver all lesson materials, training literature, training aids, special tools & test equipment, and all tools necessary to disassemble and assemble, to the training site not later than seven days prior to the training. The training materials shall include Training Course outlines CDRL A044 and Instructor Guides and Student Training Guides CDRL A045. At the conclusion the contractor shall provide Training Course completion Records CDRL A046.

C.10.2.5 IOT&E Data Collector Orientation. This orientation is a general overview of the system. Data delivery requirements are not applicable. The contractor shall develop and conduct an introduction to the system for Government support personnel and data collectors prior to IOT&E. Orientation dates will be negotiated between the contractor and the Government. The orientation will cover system operation and controls required to safely operate the system. The orientation shall be at least 50% hands-on. The maximum length of the orientation for the class is 8 hours. The orientation shall be conducted at the test site. The contractor may use commercially available material for this course, or use material developed to be used for the test training personnel. The projected class size for this training is 12 students, with the option for the Government to have additional observers.

C.10.2.6 Instructor and Key Personnel Training (I&KPT) Operator and Maintainer Training. The contractor shall provide I&KPT for the Hippo shall be 40 hrs for Operator/Maintenance training (24 hrs Operator, 16 hrs Maintainer, to include performance testing, class size will be no more than 12 students in attendance, at the Contractors facility. The Government reserves the right to have additional personnel present during the training. I&KPT training is a final evaluation and update period for the training materials to be used for NET based on the development of TMs supporting the Hippo. Instruction shall consist of 30% classroom and 70% practical exercise. Training should cover operation, setup and disassembly, preventive maintenance checks and services (PMCS), inspection, testing, troubleshooting.

C.10.2.6.1 The training shall provide the necessary equipment and training materials to include Instructor Guide (IG) and Student Guide (SG) and any additional Supplemental Training Material to include Handouts for each student to support both Operator and Maintenance on the Hippo.

C.10.3 INTERACTIVE MULTIMEDIA INSTRUCTION (IMI) WEB-BASED TRAINING (WBT) APPLICATION: The Contractor shall develop an Interactive Multimedia Instruction (IMI) Web-based Training application for the Hippo in accordance with CDRL A049. The application will consist of level II and level III interactivity; include checks on learning integrated throughout the application, a minimum of four scenarios, and a total run time not to exceed four hours. The application will support operation and operator maintenance sustainment training. In addition the application will compliment New Equipment Training (NET); support operation and operator maintenance sustainment training to newly assigned unit operators; and compliment resident instructional curriculum. The development of the IMI will be in compliance with Army Regulation 350-1 Army Training and Leader Development, and Training and Doctrine Command (TRADOC) Regulation 350-70, Systems Approach to Training (SAT) Management, Processes, and Products. The application will be packaged and distributed on CD/DVD, and compliant with Sharable Content Object Reference Model (SCORM), for posting on the Armys Learning Management System (LMS).

C.11 FIELD SERVICE REPRESENTATIVES (FSRs)

C.11.1 The Contractor shall provide Field Service Representatives who will provide on-site technical support. The FSRs shall be experienced personnel and qualified to advise, make recommendations, and to orient, and instruct key Government personnel with respect to operation, maintenance, and repair of the Hippo and its components. The effort consists of investigation and diagnosis of problems or issues in the field related to system 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. Instructions and established itineraries will be provided in delivery orders.

C.11.2 FSR Reporting. Each FSR shall prepare and submit via e-mail an Field Service Report in accordance with CDRL A056 following completion of each assignment covering their activities.

C.11.3 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

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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 access to Government facilities. The Contractor shall contact local personnel and comply with local procedures. The local personnel will be identified in the delivery order.

C.11.4 Man-Days of Service: A Man-Day of service includes any period during which the representative is delayed or prevented from performing any task only if the delay or non-performance is solely the Government's fault. Man-Day(s) of service includes travel time for initial travel from Contractor's facility to site of work, for travel between sites of work, and to Contractor's facility. It also includes any time that the FSR is preparing required reports at the work site and we can verify the time involved in writing the report. 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 and other holidays and sick leave pay. The Government is not responsible for any emergency leave that the Contractor may grant to the FSR while performing work under this contract. The Government is responsible for actual days worked by any qualified Contractor representative. It is immaterial whether the same representative completes the assignment.

C.11.5 Travel Cost: 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 Government Joint Travel Regulations.

C.11.5.1 The negotiated price for travel costs will include only one complete round-trip transportation and travel costs between sites of work per assignment. Travel will be funded on a separate CLIN, and is not included in the composite labor skill set or rate. Contractor travel will be all inclusive, with proposal to reflect air travel, ground travel, lodging, per diem, etc., as individual line items. Individual delivery orders will provide travel details for discreet projects.

C.12 PRODUCT QUALITY ASSURANCE

C.12.1 PRODUCTION SYSTEM ACCEPTANCE: An Acceptance, Inspection and Test (AI&T) shall be required on all Hippo units and shall demonstrate the adequacy and suitability of the contractor's production processes and procedures for achieving the performance inherent in the product baseline. The contractor shall conduct testing which will ensure the manufacturing processes, equipment, and procedures are effective, in accordance with ATPD 2319D, paragraph 4.1.2 (AI&T). The contractor shall develop and implement an AI&T plan IAW ATPD 2319D, paragraph 4.1.2 (AI&T) and CDRL A047. The AI&T shall be performed by the contractor and Government QAR at the same facility as production. Deficiencies discovered during inspection shall be corrected for the specific cause(s) by the contractor, at no increase in cost to the Government. Successful completion of the AI&T shall be required prior to Government acceptance. The contractor shall maintain material certifications in accordance with ATPD 2319D, and provide copies to the Government upon request. Any failure during AI&T shall constitute rejection of the unit by the Government QAR. Completed AI&T documents will be available at Governments request.

C.12.2 CERTIFICATIONS TO THE GOVERNMENT: As defined by the Government in ATPD 2319D, section 4.1.3 table1, the Contractor is required to provide certifications to the Government as proof of compliance to contractual technical requirements IAW CDRL A048.

C.12.3 RECERTIFICATION: The Contractor shall provide a new certification/report whenever a change is made:

- a. In the process to produce a certified product,
- b. In the supplier of a certified product,
- c. In the certified product itself (form, fit, or function),
- d. In the legal requirement for a standard of a certified product (e.g., US Code, Federal Regulations, NATO or other international agreements, etc.).

C.12.4 NON-CONFORMANCE REPORTING: Non-conformances discovered during manufacturing, production, assembly and all sub-contracted activities that effect units previously accepted by the Government shall be investigated and reported IAW CDRL A003.

C.12.5 PRODUCT QUALITY DEFICIENCY REPORTS (PQDR): If PQDRs are received from the field regarding Hippo units, the Government shall forward the documents to the contractor for investigation and corrective action. The contractor shall provide written responses within the time requested IAW CDRLA002.

C.13 ITEM UNIQUE IDENTIFICATION (IUID)

C.13.1 In accordance with DFARS 252.211-7003, the contractor shall mark each Hippo and required components with a Unique Identification Descriptor (UID). The UID is to be developed in accordance with MILSTD-130M, or the most recent version of this document. The Contractor shall develop a IUID Marking Plan and deliver a UID component list to include potential additional items qualifying for the UID marking in accordance with the CDRL A054. The Government will review and provide the final UID list.

C.13.2 Contractor shall use MIL-STD-130M and MIL-STD-129 to determine the best method in which to mark the Hippo.

C.13.3 As the requiring agency, the Government has determined that the Contractor will develop the UID as Machine-Readable Information (MRI) marking. The MRI marking shall be in 2D Data Matrix marking and meet the minimum quality requirements per MIL-STD-130M. The MRI protocol shall follow protocol standard ISO/IEC 15434 or ISO/IEC 15418. The MRI content shall contain:

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- a. Applicable Enterprise Identifier (EID)
- b. Serial Number
- c. Part or Identifying Number (PIN)
- d. National Stock Number (NSN)
- e. Nomenclature

The DCMA QAR will verify and validate the UID's compatibility and operability with the mandated DOD system as described in MIL-STD-130M.

C.13.4 The Contractor shall include with each Hippos AI&T package a IUID Marking activity and Verification Report IAW CDRL A054.

C.13.4 It is the Contractors responsibility to submit receiving reports electronically into the DoD Wide Area Workflow Receipt and Acceptance System (WAWF). Although WAWF is the preferred method of data submission, if the Contractor cannot use WAWF for UID, the Contractor must notify the Government at the Start of Work Meeting and arrangements may be made to allow the Contractor to submit the receiving report through either X12 or UDF submission formats. Information on WAWF is available at:

<http://www.acq.osd.mil/dpap/UID/DataSubmission.htm>

<http://www.dcma.mil> Under Electronic Invoicing

C.13.5 It is recommended that the Contractor has a portion of its UID submission reports validated prior to submitting all UID reports to WAWF. This can be done by sending an email to the Unique Identification Program Office (*HYPERLINK "mailto:info@uniqueid.org" info@uniqueid.org). Include your name, organization, phone number, email address, and the file format you will be using.

*** END OF NARRATIVE C0002 ***