

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. Contract ID Code
Firm Fixed Price

Page 1 Of 20

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 TYRONE MCCULLOM WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL EMAIL: TYRONE.MCCULLOM@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) E D ETNYRE & CO 1333 S DAYSVILLE RD OREGON, IL 61061-9783	<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-0134
	<input type="checkbox"/>	10B. Dated (See Item 13) 2009JUL24
Code 80195	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:	FAR PART 43.103 (A)(3)
<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) REYMUNDO MONCAYO REYMUNDO.MONCAYO@US.ARMY.MIL (586)282-3524		
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 20
	PIIN/SIIN W56HZV-09-D-0134 MOD/AMD P00023	
Name of Offeror or Contractor: E D ETNYRE & CO		

SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: TYRONE MCCULLOM
 Buyer Office Symbol/Telephone Number: CCTA-HBF-C/(586)282-3527
 Type of Contract: Firm Fixed Price
 Kind of Contract: System Acquisition Contracts
 Type of Business: Other Small Business Performing in U.S.
 Surveillance Criticality Designator: C
 Contract Expiration Date: 2017JUL07

*** End of Narrative A0000 ***

1. The purpose of modification P00023 to contract W56HZV-09-D-0134 is to;

A. Revise Section C: Description/Specifications/Work Statement; C.5 EMM-WD System Hand-Off;

From:

C.5 EMM-WD System Hand-Off

The hand-off effort includes:

The Contractor shall hand-off all equipment deliverable under this contract to each gaining unit. The Contractor shall perform the handoff and activate the warranty. The Contractor shall deliver all the EMM-WDs ready to operate prior to New Equipment Training. The hand-off effort includes:

- a. The Contractor shall re-assemble any EMM-WD to a fully operational configuration if it 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 EMM-WD, e.g., technical publications, special tools, initial service packages. (If desired, the inventory may be done concurrently with the units inventory.)
- c. The Contractor shall provide a one-hour familiarization course for 6-8 people from the receiving unit on the first system delivered so the soldiers can safely move the system until the actual System Training is conducted. Familiarization includes operator start-up, operating and shut down procedures, safe operations, and daily and weekly service locations and checks.
- d. Activation of the warranty, which includes stamping the effective date (date of delivery to gaining unit) on the system warranty data plate on WD only, 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 system serial number, shipping destination, and the Department of Defense Activity Address Code (DoDAAC) in accordance with CDRL A003.

To:

C.5 EMM-WD System Hand-Off

The Contractor shall perform the following activities for all EMM-WDs specified by delivery order with "SHIP TO" instructions and scheduled delivery dates as part of preparation for pre-shipment inspection/acceptance at origin. These activities shall not apply for EMM-WD's specified by delivery order to ship in place, or specified by delivery order with separate Hand-Off service Contract Line Item Numbers.

- a. Close all valves and drain petcocks to make them ready for operation.
- b. Place movable equipment in stowed for travel position.
- c. Activate the warranty, which includes stamping the effective date (expected date of delivery to gaining unit) on the system warranty data plate on WD only. Install new seal tag in stowage box padlock hasp. Prepare a report which contains the warranty implementation date by system serial number, shipping destination, and the Department of Defense Activity Address Code (DoDAAC) in accordance with CDRL A003.

The Contractor shall perform Hand-off service when specified by delivery order with separate Hand-Off service Contract Line Item Numbers. The delivery order will specify either of the following methods:

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 3 of 20****PIIN/SIIN** W56HZV-09-D-0134**MOD/AMD** P00023**Name of Offeror or Contractor:** E D ETNYRE & CO

- a. Hand-Off service at contractor location in accordance with the Engineer Mission Module - Water Distributor Pre-Shipment Deprocess Procedure (Attachment 0022).
 - b. Hand-Off service at unit location in accordance with the Engineer Mission Module - Water Distributor Fielding Deprocess System Hand-Off Procedure (Attachment 0023).
2. Update CDRL A003.
 3. There is no change in contract price as a result of modification P00023 to contract W56HZV-09-D-0134.
 4. All other terms and conditions remain unchanged and in full force and effect.

*** END OF NARRATIVE A0018 ***

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 4 of 20**

PIIN/SIIN W56HZV-09-D-0134

MOD/AMD P00023

Name of Offeror or Contractor: E D ETNYRE & CO

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 Hardware Deliveries

C.1.1 The Contractor shall manufacture and deliver a Engineer Mission Module Water Distributor (EMM-WD), in accordance with the Purchase Description (PD) "Engineer Mission Module - Water Distributor" PD No. ATPD- 2387 (Attachment 0001). Section E of the solicitation and Section 4 of the PD specify the First Article Test (FAT) Requirements. Delivery Orders will specify the quantity, delivery dates, destinations, and paint color.

C.1.2 Basic Issue Items (BII)

The Contractor shall provide BII for each EMM-WD. BII are those minimum items essential to place the EMM-WD in operation, to operate it, and to perform routine operator maintenance and emergency repairs which cannot be deferred until completion of an assigned mission. These may include those select common and special purpose tools, operator publications, and safety equipment (i.e. fire extinguishers) authorized for the EMM-WD. The Contractor shall over-pack the BII list and the components of the BII with each EMM-WD in accordance with the packaging instructions developed for the Technical Manuals (TM).

C.1.3 Initial Service Package (ISP)

The Contractor shall provide an ISP for each EMM-WD. The Contractor shall over-pack the ISP list and the components of the ISP with each EMM-WD in accordance with 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) to ensure the correct application. A complete ISP inventory list shall be included identifying each item by nomenclature, part number and NSN (if assigned).

C.2 Data

The Contractor shall deliver all data in English in accordance with the requirements in Exhibit A, the Contract Data Requirements List (DD Form 1423). All data delivered under this contract shall be submitted electronically via diskette or electronic mail in MS Office compatible format.

C.3 Meetings and Reviews

C.3.1 The Contractor and Government will schedule meetings and reviews as outlined in C.3.2 below. Ten business days prior to meetings, a Government and Contractor jointly developed agenda will be distributed via email. Meetings will be held at either the Contractors or the Governments facility. When meetings are held at the Contractor's facility, the Contractor shall ensure the following items are available for the Government's use as needed: production units or other required versions of the EMM-WD needed for viewing; required technical, logistics or other documentation (including drawings, computer bases, publications, and other data); and computer resources. 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. The minutes will identify all action items assigned for both parties to accomplish, an estimated completion date for each action item, and all actions requiring Contracting Officer approval.

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

C.3.2.1 Start-of-Work (SOW) Meeting Within 30 days of contract award, TACOM will host a Start of Work meeting at the Detroit Arsenal in Warren, Michigan. The Start of Work meeting may last up to three days. The Start of Work meeting shall take place to clarify all matters relating to development, preparation and submission of contract data deliverables. Additional guidance will be available through Program Status Reviews (PSR) meetings. The Contractor shall present its plan to manage and develop logistics products and services. The Contractor shall have completed Attachment 0008 with the list of Item Unique Identification (IUID) marked components. The meeting will focus on reviewing the following:

1. Contract terms and conditions
2. Data requirements
3. Required specifications/design and integration
4. Establish initial configuration baseline
5. Schedule

Name of Offeror or Contractor: E D ETNYRE & CO

6. Test requirements
7. Logistics product development and management

C.3.2.2 System Integration Status Review

The Contractor shall host a System Integration Status Review meeting at 60 and 90 days after contract award to discuss any design and functionality issues. The Contractor shall prepare a presentation to address its progress on the design and any issues that need to be discussed. At the 60 day review, the Contractor shall present its manufacturing readiness plan. The Contractor shall have its preliminary drawings and models available at the 60 day review meeting. At the 90 day meeting, the final configuration baseline will be established. The Contractor shall have its final drawings and models available at the 90 day review meeting.

C.3.2.3 Pre-Test Meeting

Pre-Test Meeting, shall last one day and be used to review and discuss testing, support, and operator training. This meeting shall be held 30 days prior to beginning Government First Article Test (FAT) at Aberdeen Proving Ground, MD.

C.3.2.4 Program Status Reviews

Program Status Reviews (PSRs) will be held approximately quarterly, beginning 90 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 will be part of the PSRs. Reviews are held at the Contractor's facility and will last up to two days. The Government and Contractor will jointly schedule the meetings and establish the agenda, which will be distributed IAW C.3.1. During preparation of equipment publications, these SIPTs will be used to clarify requirements, provide guidance to the Contractor and to ensure that the publication is written to conform to this contract. For planning purposes, the Contractor should consider participation in approximately four (4) PSRs during the course of the contract. The Contractor shall provide properly formatted representative samples of each section for every TM required. The samples will be reviewed for compliance with Attachment 0010 (General Publications Requirements) and Attachment 0011 (Equipment Publications Defects). SIPT meetings are not a part of the verification effort and shall not be used in place of the verification effort. The Contractor shall make available adequate space, facilities, and personnel for Government scheduled SIPTs at no additional cost to the Government.

C.3.2.5 Provisioning Conference

Provisioning Conferences will be held in accordance with C.6.2.3.5. We anticipate four (4) provisioning conferences.

C.3.2.6 Integrated Logistics Support

TACOM will host a weekly teleconference to discuss Integrated Logistics Support (ILS) issues. The Contractor shall provide technical and managerial representatives to attend these meetings as needed.

C.4 System Configuration Changes

C.4.1 The Contractor shall be responsible for maintaining configuration control of the EMM-WD. The Contractor shall establish a production configuration baseline for the system after successful completion of both the Contractor's and the Government's portions of the FATs. This baseline will identify and document the functional and physical characteristics of the system. The Government acknowledges that the Contractor may want to offer to the Government configuration changes being introduced to its commercial production during the term of this contract. However, it's important for the Government to assess the impact of any proposed configuration changes to the logistics and technical requirements established for this program. The Contractor is therefore required to notify the Government prior to implementing any configuration changes that impact form, fit, or function in accordance with CDRL A002. If the proposed changes are not acceptable to the Government, then the Government can elect to place no additional orders under this contract, and the Government will be under no further obligation pursuant to the FAR Clause 52.216-21, "Requirements," to order any additional quantities of EMM-WDs. The Government will issue a no-cost cancellation to the contract.

C.4.2 Engineering Changes - Contractor Initiated

The Contractor shall submit a notification of change for any configuration change which impacts form, fit or function. The Contractor shall submit requests for approval of changes to the configuration baseline to the Contracting Officer at least 60 days before the proposed application date. The request for change shall include the following:

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 6 of 20**

PIIN/SIIN W56HZV-09-D-0134

MOD/AMD P00023

Name of Offeror or Contractor: E D ETNYRE & CO

- a. Rationale to support the necessity of making the change;
- b. Any 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 any logistics impact to include changes to manuals, provisioning, maintenance procedures, repair parts, special tools and test equipment, packaging, and transportation;
- e. Any proposed decrease in contract price; and
- f. Identification, by serial number, of the systems affected.

C.4.2.1 Engineering Changes - Government Directed

Engineer Change Proposal (ECP) 1000010 changes CARC Paint Topcoat from (Silica) MIL-DTL-53039 Type I, to (Polymeric) MIL-DTL-53039 Type IV. As a result of this change, serial number WD1319 on CLIN 0300AA or later for the Engineer Mission Module - Water Distributor (EMM-WD) will be effected.

C.4.3 Government Review

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 will perform the tests at no additional cost to the Government. Further, any production or delivery delays caused by additional 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.4.4 Responsibility for Failure Due to Changes

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

C.4.5 Responsibility for the Cost of Changes

The responsibility for the cost of changes is as follows:

- a. This is a firm-fixed-price 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 EMM-WD price.
- b. The Government is not responsible for additional testing or software costs associated with any changes the Contractor submits, including model changes.
- c. When a change results in reduced Contractor costs, the Government will accept an equitable reduction in contract price offered by the Contractor.
- d. The Government is not liable for any costs the Contractor may incur, due to delay in contract performance, as a result of any of the Contractor's requests for change.

C.4.6 Responsibility for Data Within 45 days of making the change, 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.

C.4.7 Configuration Change Report

For Contractor initiated configuration changes, the Contractor shall notify the Government of the following: old part number, new part number, vendor CAGE code, and Additional Reference Number (vendor part number) in accordance with CDRL A002. The Contractor shall submit the report with two sections, one for form/fit/function changes and one for non-form/fit/function changes.

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 7 of 20
	PIIN/SIIN W56HZV-09-D-0134	MOD/AMD P00023
Name of Offeror or Contractor: E D ETNYRE & CO		

C.4.8 Definitions

The following are definitions of Form, Fit, and Function:

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.

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.5 EMM-WD System Hand-Off

The Contractor shall perform the following activities for all EMM-WDs specified by delivery order with "SHIP TO" instructions and scheduled delivery dates as part of preparation for pre-shipment inspection/acceptance at origin. These activities shall not apply for EMM-WD's specified by delivery order to ship in place, or specified by delivery order with separate Hand-Off service Contract Line Item Numbers.:

- a. Close all valves and drain petcocks to make them ready for operation.
- b. Place movable equipment in stowed for travel position.
- c. Activate the warranty, which includes stamping the effective date (expected date of delivery to gaining unit) on the system warranty data plate on WD only. Install new seal tag in stowage box padlock hasp. Prepare a report which contains the warranty implementation date by system serial number, shipping destination, and the Department of Defense Activity Address Code (DoDAAC) in accordance with CDRL A003.

The Contractor shall perform Hand-off service when specified by delivery order with separate Hand-Off service Contract Line Item Numbers. The delivery order will specify either of the following methods:

- a. Hand-Off service at contractor location in accordance with the Engineer Mission Module - Water Distributor Pre-Shipment Deprocess Procedure (Attachment 0022).
- b. Hand-Off service at unit location in accordance with the Engineer Mission Module - Water Distributor Fielding Deprocess System Hand-Off Procedure (Attachment 0023).

C.6. Logistics

C.6.1 Logistics Management

The Contractor shall manage and develop a logistics support package for the EMM-WD program, and co-chair government scheduled Supportability Integrated Product Team (SIPT) meetings (C.3.2.4) 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 and government will jointly develop an ILS schedule at the start of work meeting that shall identify dates for all logistics deliverables. The ILS Schedule shall be a binding document for both contractor and government and will be added to the contract as Attachment 019. A separate ILS schedule shall be jointly developed for this update.

C.6.2 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 Scope of Work (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 and performance standards and specifications.

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 8 of 20
	PIIN/SIIN W56HZV-09-D-0134	MOD/AMD P00023
Name of Offeror or Contractor: E D ETNYRE & CO		

C.6.2.1 Maintenance Planning

The Contractor shall conduct Maintenance Planning to determine the maintainability characteristics of the EMM-WD system. The system will use the two-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 will serve as source data for development of the Maintenance Allocation Chart (MAC), Supplemental Provisioning Technical Documentation (SPTD), technical manuals and Army Manpower and Requirements Criteria (MARC). The Contractor shall use the principles of Condition Based Maintenance (CBM) for the development of all Preventive Maintenance Checks and Services (PMCS). The maintenance analysis will be documented in end item hardware breakdown sequence, using top-down generation breakdown sequence. The Contractor may break down the top-down generation breakdown sequence by LSA Control Number (LCN). Instructions for conduct of the analysis are contained in Attachment 0004 (LMI Maintenance Analysis). The Maintenance Analysis shall be delivered in accordance with CDRL A004.

C.6.2.1.1.1 Level of Repair Analysis (LORA)

The Contractor shall conduct a Level of Repair Analysis (LORA) in contractor format (Governments COMPASS model recommended) for the EMM-WD module and include all potential repairable items/components (i.e. Line Replaceable Units (LRUs), assemblies, and subassemblies.) The LORA shall be performed and reported to support the most efficient and effective method of repairing the system and developing maintenance procedures for the TM delivered under this contract. This analysis shall determine the maintenance level at which the item should be repaired or replaced, with an evaluation threshold of \$500 for Field and \$1500 for Sustainment. The Contractor shall perform Non-Economic, Economic and Sensitivity evaluations. The LORA and other analysis shall be used to identify those components, assemblies, modules that can be economically repaired by the wholesale supply system. The results of the Government Approved LORA shall be incorporated into the Maintenance Analysis Summary. The contractor shall deliver the LORA, Non-Economic, Economic and Sensitivity evaluation results, input spreadsheet and all other items to the Government IAW CDRL A004.

C.6.2.1.1.2 Draft Maintenance Allocation Chart (MAC)

A preliminary report formatted and containing all the elements of a MAC shall be prepared as part of the draft Maintenance Analysis review. The Maintenance Analysis shall also include the long lead time item list, Basic Issue Item (BII) list, Components Of End Item (COEI) list, and Expendable and Durable Items List (EDI).

C.6.2.1.1.3 National Maintenance Work Requirement (NMWR) Candidate List

The NMWR candidate list will be a product of the Maintenance Analysis (C.6.2.1.1). Any component coded for repair at the sustainment level of maintenance with a unit price in excess of \$1,500 will be a NMWR candidate. The Contractor will 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.6.2.1.1.4 Support Equipment Tools and Test Equipment (STTE)

The Contractor shall deliver a list of Support Equipment Tools and Test Equipment for the EMM-WD. The source data for this list will be the Maintenance Analysis, performed per paragraph C.6.2.1.1. The list shall be in tabular form and shall identify special tools and Test Measurement and Diagnostic Equipment (TMDE) not contained in U.S. Army Supply Catalogs. In addition, the list shall also contain all TMDE's required from the Authorized Supply Catalogs. A list of Authorized Supply Catalogs will be provided to the Contractor at the Start of Work meeting. Maximum use of common tools, support equipment, and TMDE normally organic to the user is preferred. The list shall provide nomenclature, Commercial and Government Entity (CAGE) Codes, 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 A005.

C.6.2.1.1.4.1 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.

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 9 of 20
	PIIN/SIIN W56HZV-09-D-0134	MOD/AMD P00023
Name of Offeror or Contractor: E D ETNYRE & CO		

C.6.2.1.1.4.2 The following paragraphs are included to clarify special tools for the U.S. Army use. Special tools are not identified as components in a Sets, Kits, and Outfits (SKO) Supply Catalogs. 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.
- 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).

C.6.2.1.1.5 Critical Stockage List (CSL)

The CSL shall be prepared and submitted in accordance with CDRL A006 and Attachment 0005. 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 priced parts list shall also match the Bill of Materials (BOM) for the EMMWD to the extent the parts are applicable. The Government intends to procure these parts to support initial fielding of the EMM-WD.

C.6.2.1.1.6 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 included in the New Equipment Training (NET) for each specific Military Occupational Skill (MOS).

C.6.2.1.2 The Contractor shall facilitate a joint Government-Contractor conference at the Contractor's facility to review the initial Maintenance Analysis 30 days after contract award (DACA).

C.6.2.1.3 National Maintenance Work Requirement (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 may be in the Contractor's format, and shall be documented in accordance with Attachment 0006 (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 A007.

C.6.2.1.4 Equipment Control Record (DA Form 2408-9)

The Contractor shall prepare and submit a DA Form 2408-9 (Attachment 0007), Equipment Control Records (Government furnished form) for each system it delivers. The Contractor shall prepare the form IAW the instructions in DA PAM 750-8, paragraph 5-7 c (3), Acceptance and registration, to report acceptance of the each EMM-WD into the U.S. Army inventory. Attachment 007 contains a blank copy of DA Form 2408-9. 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 submit completed copies of the DA Form 2408-9 IAW DA PAM 750-8, paragraph 5-7 f (5) Accepted methods of data submission. Submission of completed copies shall be made within five working days after acceptance as follows:

- a. Submit the control copy (copy # 1) to LOGSA and addressed to:
Commander
USAMC Logistic Support Activity
ATTN: AMXLS-RRA
Redstone Arsenal, AL 35898-7466
E-mail: tedb@logsa.army.mil
- b. Submit the TACOM copy (copy #2) to:
E-mail: adam.m.gotshaw2.civ@mail.mil
- c. Place Log Book copy (copy # 3) in a dry protected location, secured in and shipped with each system.

Name of Offeror or Contractor: E D ETNYRE & CO

C.6.2.2 Diagnostics RESERVE

C.6.2.2.1 Electronic Diagnostic Testability Analysis RESERVE

C.6.2.2.2 RESERVE

C.6.2.3 Provisioning

C.6.2.3.1 Provisioning Parts List (PPL)

The Contractor shall develop and deliver LMI provisioning data (PPL) for all parts, special tools, Basic Issue Items (BII), and Components of End Items (COEI), identified on the EMM-WD. Each incremental submission shall have at least 500 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 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 accordance with Attachment 0009 (Provisioning Data Requirements, worksheets) and CDRL A009.

C.6.2.3.1.1 General guidelines for consolidating parts into kits are as follows:

- a. Seventy (70) percent or more of the non-common hardware parts are applied during most single repair actions.
- b. Application of 70 percent or more of the kit will improve reliability of the repaired item.
- c. Cost of the kit parts less common hardware is 30 percent or less than the item to which applied.

C.6.2.3.2 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, its 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 A010.

C.6.2.3.3 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. All submissions of the LMI PPL data must be compatible with TACOM Commodity Command Standard System (CCSS)/Provisioning on Line System (POLS) 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 working days.

C.6.2.3.4 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.6.2.3.5 Provisioning Conferences

The Contractor will host a provisioning conference (unless otherwise directed by the Government) not to exceed 10 working days for each incremental review. Provisioning data presented for review will include complete assemblies. At least two internet connections (Ethernet/wireless) must be provided for Government attendees. The PPL data to be reviewed shall be provided in advance to each conference attendee per CDRL A009.

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 11 of 20
	PIIN/SIIN W56HZV-09-D-0134	MOD/AMD P00023
Name of Offeror or Contractor: E D ETNYRE & CO		

C.6.2.4 Technical Publications

New equipment technical manuals to support the EMM-WD shall be developed. Preparation requirements and delivery requirements for the Department of the Army Technical Manuals (DATMs) and Electronic Technical Manuals (ETMs) 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 0010 (General Publications Requirements).

C.6.2.4.1 The following technical manuals shall be developed:

- TM 5-3825-270-10 Operator Manual
- TM 5-3825-270-23&P Field Maintenance Manual including RPSTL
- LO 5-3825-270-13 Lubrication Order

The technical manuals shall be divided into volumes if the page counts exceed 1500 pages (750 sheets). An example of the technical manual volume designation would be TM 5-3825-270-10-1, TM 5-3825-270-10-2. Item warranty information will be added to the technical manual(s) if applicable.

C.6.2.4.1.1 The operator manual shall be prepared and delivered in accordance with MIL-STD-40051-2, CDRL A011 and TM Matrix A-II in MILSTD-40051-2.

C.6.2.4.1.2 The maintenance manual, including RPSTL, shall be prepared and delivered in accordance with MIL-STD-40051-2, CDRL A012, and TM Matrix A-IV in MIL-STD-40051-2. The RPSTL will be pulled from the PMR from data that the Contractor provides and loads. The Contractor shall combine the RPSTL illustrations with the PMR RPSTL download.

C.6.2.4.1.3 The Lubrication Order (LO) shall be prepared and delivered in accordance with MIL-PRF-63004, CDRL A013. The LO shall be laminated.

C.6.2.4.2 Preliminary Technical Manual (PTM) submissions shall be delivered as required in CDRLs A011 through A013 of the 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.

C.6.2.4.3 Final Preliminary Technical Manual (FPTM) submissions shall be delivered as required in CDRLs A011 through A013 of the contract. The FDEP submission(s) must be a complete publication as required in MIL-STD 40051-2 and AR 25-30. Each FDEP shall include all required content per the CDRLs and Attachments.

C.6.2.4.4 Final reproducible copy (FRC) submission(s) shall be delivered as required in CDRLs A011 through A013 of the 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 CDRLs A011 through A013 and Attachment 0010 (General Publications Requirements). The FRC shall include final resolution of all comments and recommendations made as a result of all testing, Government review, Contractor validation, Government verification and any maintenance literature conferences. If errors are found in the FRC, it shall be considered a PTM until the Contractor corrects the errors.

C.6.2.4.5 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, copy and distribute the TM(s) and electronic data files delivered under this contract in hard copy 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.6.2.4.6 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.

Name of Offeror or Contractor: E D ETNYRE & CO**C.6.2.4.7 Portable Document Format (PDF)**

The Contractor shall submit a PDF file (Adobe Acrobat Version 9 or equivalent) of each technical publication produced in accordance with MIL-STD 40051-2, the TM Requirements Matrix (-ices), this SOW, CDRLs A011 through A013 and all attachment(s). The PDF file(s) shall be editable, intelligent electronic files with embedded fonts. The PDF file(s) shall reflect the content of the text and graphics contained in the FRC(s) accepted by the Government.

C.6.2.4.8 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 U.S. Army soldiers. 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 shall assess the quality of the deliverable in accordance with Attachment 0011 (Equipment Publication Defects). Government representatives have the right to review and comment on the Contractors' QA plan, records, and processes.

C.6.2.4.9 Contractor Validation

The Contractor shall conduct a Validation of the initial submittal PTM produced in accordance with paragraph C.6.2.4.2 of this contract, CDRLs A011 through A013, and Attachment 0010 (General Publications 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 days prior to conducting the Validation. The Government reserves the right to observe the Validation effort and will schedule observers as needed. The Contractor shall produce a Validation Report as outlined in paragraph C.6.2.4.8.1 and CDRL A014.

C.6.2.4.9.1 Validation Report

The Contractor shall notify the Government, in writing (Contractor format), of the results of the Contractor validation in accordance with paragraph C.6.2.4.9. At a minimum, this correspondence shall include the dates of the Validation effort, an overview of the effort, specific tasks validated and changes identified as a result of the Validation. The Validation Report shall be submitted in accordance with CDRL A014.

C.6.2.4.10 Logistics Demonstration (LD) Support.

The government plans to conduct a separate Engineering Mission ModuleWater Distributor (EMM-WD) LD after the validation for the -23 Technical Manual (TM) IAW the government approved ILS schedule developed at the start of work meeting, at the same location. The LD will be hosted by the contractor and will be government managed, contractor supported.

C. 6.2.4.10.1 The contractor shall develop a LD Plan IAW CDRL A024, 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) Participating 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 the due dates).
- h) References.
- i) Acronyms.
- j) Distribution.

C. 6.2.4.10.2 The LD shall be no more than 30 calendar days in duration (20 working days Mon-Fri). The LD shall be conducted using one EMM-WD system, which consist of a PLS Truck, PLS Trailer, and two Water Distribution modules. The contractor shall make available the necessary personnel, facilities, equipment, tools, test equipment, supplies and pertinent documents required for LD. The Contractor shall make available the necessary personnel, facilities, equipment, tools, test equipment, supplies, and pertinent documents required for LD.. The government will perform Operator and Maintainer Preventative Maintenance Checks and Services (PMCS), during LD. The government will provide a specific list of troubleshooting tasks to perform during LD. The contractor shall identify the applicable

Name of Offeror or Contractor: E D ETNYRE & CO

work packages and provide marked up copies from the TM validation for use 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 contractor shall insert faults during performance of the applicable work packages as identified by the government. Any changes to the DA TMs will be performed during the LD in real-time. (Minor changes changes to illustrations to support narrative information can lag by 24 hours). However, art markups will be provided in real-time, as they occur.

C. 6.2.4.10.3 The contractor shall develop a LD Report after the conclusion of the LD IAW CDRL A024, 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. LD report findings may come from data existing prior to the LD, development and operational test data, and data derived from the LD.

C.6.2.4.11 Government Verification

Verification is a Government responsibility. Verification will take place at the Contractor's facility unless otherwise specified by the contracting activity. The Contractor shall make available the necessary personnel, facilities, equipment, tools, test equipment, supplies, and pertinent documents required for Government Verification. The verification will test the usability and accuracy of the validated PTMs for the target mechanics, including tool requirements, facilities and time estimates in the Maintenance Allocation Chart (MAC). The verification will validate the accessibility of the system for maintenance procedures and shall be performed using production configuration equipment. Any changes to the DATMs shall be performed during the verification in real time (Minor changes to illustrations to support narrative information can lag by 24 hours.) However, art markups shall be provided in real time, as they occur. 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.6.2.4.12 Correction of Errors

C.6.2.4.12.1 The Contractor shall correct all errors found in the PTMs, FPTM, FRCs, PDFs and electronic data files resulting from Contractor and Government reviews, test, Logistics Demonstration or Verification in real-time at no additional cost to Government.

C.6.2.5 Packaging Data Development

The Contractor shall, for component items pertaining to the EMM-WD, 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"). 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.6.2.5.1 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.6.2.5.2 Packaging/Logistics Data Entry

The Contractor shall develop, maintain and update packaging data in accordance with Attachment 0012, Attachment 013, and CDRL A015. LMI packaging data is required in accordance with 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.6.2.5.2.1 At Contractor's request, the Government will provide MS ACCESS application that provides data formatting and edit features for coding of packaging data products in accordance with MIL-STD-2073-1D.

C.6.2.5.3 Special Packaging Instructions (SPI)

The Contractor shall develop a SPI for each repairable TACOM managed item. The TACOM managed items would include items such as those being considered as National Maintenance Work Requirement (NMWR) candidate items. SPIs developed for engines, pumps, valving, and

Name of Offeror or Contractor: E D ETNYRE & CO

similar assemblies shall be packaged in accordance with 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 in accordance with CDRL A016.

C.6.2.5.3.1 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" (Paragraph A1.2 on Pages 10-11), and Schedule F Testing (Paragraph A1.6 on Page 11). Replicate testing (Paragraph 5 on Page 2) and climatic conditioning (Paragraph 6 on Page 2) is not required. Items with previously approved documented test results may be exempt from validation testing. Test results shall be submitted in accordance with CDRL A016.

C.6.2.6 EMM WD-Training

C.6.2.6.1 Development of Training Materials, EMM-WD

The Contractor shall develop an operator course and a maintainer course for the system. Each course 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 6 students per EMM-WD system and instructor. Each EMM-WD NET class shall be conducted by a trainer that has met the qualifications of paragraphs C.6.2.7.2.1 and C.6.2.7.2.2.

C.6.2.6.2 Training Course Control Outline, EMM-WD

For each course, the Contractor shall develop a separate Training Course Control Outline for the EMM-WD 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. The Contractor shall deliver the Training Course Control Outlines in accordance with CDRL A017.

C.6.2.6.3 Operator Training EMM-WD

The course shall be designed for operators of the EMM-WD. The Contractor shall provide an Instructor Operator Guide and a Student Guide. The course material shall cover complete operation and safety of the EMM-WD, loading and unloading for transport, complete tie down for shipment, trailer operations, proper use of tools, equipment, and Basic Issue Items (BII), Operator Preventive Maintenance Checks and Services (PMCS) and trouble-shooting. Instruction will include operation of the EMM-WD operating independently on the ground, trailer mounted or while mounted on the PLS. Training shall be consistent with procedures established in the appropriate equipment technical manual. The operator course of instruction shall be developed for no longer than 16 hours duration. The Contractor shall conduct a hands-on performance test for each operator being trained throughout the NET training. The Contractor shall score each student based on his performance. Each student shall complete a written examination at the end of the course.

C.6.2.6.4 Maintainer Training EMM-WD

The course shall be designed for the maintainers of the EMM-WD. The Contractor shall provide an Instructor Maintainer Guide and a Student Maintainer Guide. The course material shall cover minimal operation characteristics, complete field level PMCS, troubleshooting, diagnosis and repair of equipment components to include system unique control systems, engine, fuel, electrical, 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. Instruction will include operation of the EMM-WD operating independently on the ground, trailer mounted or while mounted on the PLS. Training shall be consistent with procedures established in the appropriate equipment technical manual and the appropriate vehicle technical manual. The maintainer course of instruction for the system shall be for no longer than 24 hours duration.

C.6.2.6.5 Instructor and Student Guides

The Government will provide a sample copy of an Instructor Guide (IG) and a Student Guide (SG) at the Start of Work Meeting.

C.6.2.6.6 Course Material Format/Media & Deliveries (EMM-WD)

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

Name of Offeror or Contractor: E D ETNYRE & CO

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 Power Point 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 A018.

C.6.2.6.7 Conduct of Training Programs**C.6.2.6.7.1 Instructor and Key Personnel Training (I&KPT) Class EMM-WD**

The Contractor shall conduct training classes for both operator and maintainer courses using training materials developed under the contract, at a Contractor location. The purpose of the class is to verify training materials developed for NET. The Contractor shall provide EMM WDs, equipment, facilities, tools (special and common) and replacement parts consumed during the training. The I&KPT class will have a maximum of 12 students.

C.6.2.6.7.2 New Equipment Training (NET) Classes EMM-WD

The Contractor shall conduct NET classes to support unit handoff. The Contractor shall conduct classes at training locations specified by the Government in the Delivery Orders. Training dates will be determined by the Government and provided to the Contractor no later than 30 days prior to the beginning of each class. For NET classes in the field, the Contractor will 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. The duration of a training class will be no more than 8 hours per day. For OCONUS (contingency) training, there is no limitation on which days during the week or which hours during the day training will be held. 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. Travel and per diem costs associated with conduct of the NET classes will be negotiated prior to issuance of the delivery order, based on the Joint Travel Regulation (JTR).

C.6.2.6.7.3 Student Training Administration EMM-WD

The Contractor shall prepare and submit the following for each NET class conducted. The data shall be submitted in accordance with CDRL A019.

- a. On the first day of each training class the Contractor shall submit a list of students in attendance to the Government.
- 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 days after completion of the class, the Contractor shall submit the completed critiques to the Government.
- e. Within ten days after completion of the class, the Contractor shall submit a student roster and the results of both the performance test and written test 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.6.2.7 PLS Truck, Trailer and On Ground Training (OPTION)

C.6.2.7.1 When called up in a delivery order, the Contractor shall provide NET classes on the PLS truck and trailer using previously approved training material. The PLS training classes may not be held in consecutive weeks as the EMM-WD training. The operator class is 80 hours. The maintainer class is 80 hours. The training material will be furnished by the Government at the Start of Work meeting. The Contractor shall conduct classes at training locations specified by the Government in the delivery order. Training dates will be determined by the Government and provided to the Contractor not later than 30 days prior to the beginning of each class. The equipment

Name of Offeror or Contractor: E D ETNYRE & CO

provided at the time of the fielding will be used for NET. A maximum of 6 students per EMM-WD system and instructor will attend each class. 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 Contractor shall perform all administrative activities in paragraph C.6.2.6.7.3 above.

C.6.2.7.2 PLS Truck and Trailer

C.6.2.7.2.1 Each PLS Truck and Trailer NET class conducted shall be supported by two TACOM certified Contractor instructors. Each instructor shall also have proof of instructor certification from a Government Service Branch or from a TACOM approved Instructor Certification Program or from a College Institution.

C.6.2.7.2.2 Instructor Qualification Requirements

Instructors shall have an Instructor Certification issued by TRADOC or issued under the International Board of Standards for Training, Performance and Instruction (IBSTPI) standards. In addition, when operating the EMM-WD while connected to or in conjunction with the PLS, the instructor shall have a Commercial Drivers License (CDL), and shall have successfully completed two weeks of PLS operator training and two weeks of maintenance training. After completion of the four weeks of PLS training, the instructor will obtain a permit to drive the PLS and a certification to teach the PLS course.

C.6.2.8 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 EMM-WD system. A commercial operators manual, and if need be, training materials shall also be provided to supplement training.

C.6.2.9 Training for Logistics Demonstration

The Contractor shall provide training for Government personnel who will perform a Logistics Demonstration. The Logistic Demonstration will be after the validation effort. 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 demonstration of the EMM-WD. The Contractor shall also provide PLS operator familiarization at this time, in the event trained operators are not available. A commercial operators manual, and training materials shall also be provided to supplement training.

C.7 Safety Engineering and Health Hazards

C.7.1 Safety Engineering Principles

The Contractor shall follow good safety engineering practices as established by the industry consensus standards governing water storage systems. The Contractor can use MIL-STD-882D as a guide in determining whether safety engineering objectives are met. As a minimum, the Contractor shall do the following:

- a. Identify hazards associated with the system by conducting safety analysis and hazard evaluations. Analyses shall include operational, maintenance, and transport aspects of the EMM-WD, along with potential interface problems with planned subsystems.
- b. Eliminate or reduce significant hazards by appropriate design or material selection. If hazards to personnel cannot be avoided or eliminated, take steps to control or minimize those hazards.
- c. Locate equipment components and controls so that access to them by personnel during operation, maintenance or adjustments shall not require exposure to hazards. Examples of hazards to be considered include: high temperature, chemical burns, electrical shock, cutting edges, sharp points, or concentrations of toxic fumes above established threshold limit values. All moving parts, mechanical power transmission devices, exhaust system components, pneumatic components and hydraulic components which are of such a nature or so located as to be a hazard to operating or maintenance personnel shall either be enclosed or guarded. Protective devices shall not impair operational functions.
- d. Assure that suitable warning and caution notes are included in instructions for operation, maintenance, assembly and repairs

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 17 of 20
	PIIN/SIIN W56HZV-09-D-0134	MOD/AMD P00023
Name of Offeror or Contractor: E D ETNYRE & CO		

and that distinct markings are placed on hazardous components of equipment.

C.7.2 Safety Assessment Report (SAR)

As a result of system safety analyses, hazard evaluations, and any of the independent testing, the Contractor shall perform and document a safety and health hazard assessment. The safety and health hazard assessment shall identify all safety features of the hardware, software, system design and inherent hazards and shall establish special procedures and/or precautions to be observed by Government test agencies and system users. The Contractor shall prepare a Safety Assessment Report in accordance with CDRL A020 and DI-SAFT-80102B. The Contractor shall identify health hazards associated with the system and incorporate them into the SAR. In preparing the health hazard portion of the Safety Assessment Report, the Contractor shall provide a description and discussion of each potential or actual health hazard for each subsystem or component. A health hazard is an existing or likely condition, inherent to the operation, maintenance, transport, or use of materiel that can cause death, injury, acute or chronic illness, disability, or reduced job performance of personnel by exposure to physiological stresses. The Contractor shall include classification of severity and probability of occurrence, and when the hazards may be expected under normal or unusual operating or maintenance conditions. Include in the SAR, copies of Material Safety Data Sheets (MSDS) for all hazardous materials incorporated into the system. Identify all data sources for the report and identify hazard severity, hazard probability and risk for each hazard. The final SAR is subject to Government approval. In the event the system is modified or procedural changes with regards to interfacing with the system are made after the final SAR is submitted, you shall update the SAR to reflect those modifications or changes.

C.7.2.1 Examples of hazards to be included in the report are:

- a. Sharp edges/moving parts.
- b. Electrical issues.
- c. Toxic fumes (exhaust emission hazards) and hazardous materials, to include those formed by the introduction of the system, or by the manufacture, test, maintenance or operation of the system.
- d. Chemical hazards (e.g., flammables, corrosives, carcinogens or suspected carcinogens, systemic poisons, asphyxiants, including oxygen deficiencies, respiratory irritants, etc.).
- e. Biological hazards (e.g., bacteria, fungi, etc.).
- f. Ergonomic hazards (e.g., lifting requirements, task saturation, etc.).
- g. Any Hazardous Material requiring MSDS.
- h. Confined Space Entry.

C.7.2.2 The assessment shall also address:

- a. System, facility and personnel protective equipment design requirements (e.g., ventilation, noise attenuation, radiation barriers, etc.) to allow safe operation and maintenance. When feasible engineering designs are not available to reduce hazards to acceptable levels, alternative protective measures must be specified (e.g., protective clothing, specific operation or maintenance practices to reduce risk to an acceptable level).
- b. Potential non-or less hazardous material substitutions and projected handling and disposal issues. The HHA will discuss the rationale for using a hazardous material and long term effects (such as potential for personnel and environmental exposure, handling and disposal issues/requirements, protection/control measures, and life cycle costs) over a non-or less hazardous material. The effects and costs should be considered over the life of the systems, including the cost of handling and disposal. Identify potential non-or less hazardous alternatives if they exist and provide a justification why an alternative cannot be used.

C.8 Transportability Report

The Contractor shall submit a Transportability Report in accordance with CDRL A021 that includes data on recommended procedures for configuring, positioning, and securing the system for transport by highway, air, marine, and rail car. The report shall also include: slinging and tiedown procedures for lifting and restraining the system; and procedures, man-hours and all tools required for disassembly and re-assembly when transported by highway, rail, marine and air.

Name of Offeror or Contractor: E D ETNYRE & CO**C.9 Hazardous Materials Management**

The Contractor shall not use hazardous materials in accordance with Section 3.3.2 of the PD.

C.9.1 Hazardous Materials

No asbestos, radioactive materials, mercury, hexavalent chromium (electroplating and coatings processes), cadmium (electroplating), or other highly toxic or carcinogenic materials as defined in 29 CFR 1910.1200 shall be used on the EMM WD without prior approval from the Government. Class I and Class II Ozone Depleting Substances shall not be used. These requirements should apply to any components/parts purchased through a subcontractor/vendor.

C.9.2 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 A022.

C.10 Contractor Technical Assistance

The Contractor shall provide Contractor Technical Assistance CONUS, OCONUS, and during contingency and non-contingency operations. The Contractor shall provide the man-days of service specified in the delivery order. These man-days may be in support of unforeseen events that require support that is not included in any other portion of this contract. We anticipate the effort to include these types of tasks: 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 activities. The Contracting Officer or authorized representative shall notify the Contractor at least 10 days in advance of CONUS travel and 60 days in advance of OCONUS travel of the date representative(s) are required. Instructions and established itineraries will be provided as necessary. It is understood that OCONUS Theater Deployment requirements could impact the actual deployment date(s) of the supporting personnel and that these requirements and resources are controlled by the government; therefore the contractor will not be held accountability for any delays as a result of government scheduling or available resources.

C.10.1 Field Service Representative (FSR)

The Contractor shall provide FSRs who are thoroughly experienced and qualified to advise and make recommendations to orient and instruct key Government personnel with respect to operation, maintenance, and repair of the EMM-WD and its components.

C.10.2 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(s) named. The Contractor shall contact local personnel and comply with local procedures. The local personnel will be identified in the delivery order.

C.10.3 Man-Days

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

(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 8 hours. The representative is to work no more than 8 hours per day, 40 hours per week, unless otherwise negotiated. 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.

(3) Saturday/Sunday. When work is performed on a Saturday/Sunday, a man-day shall be charged at the Saturday/Sunday man-day rate listed in Section B.

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

Page 19 of 20

PIIN/SIIN W56HZV-09-D-0134

MOD/AMD P00023

Name of Offeror or Contractor: E D ETNYRE & CO

(4) Holidays. The Government will pay for federal holidays (only if the Contractor works the day before and the day after the Federal Holiday) 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.

(5) Emergency Leave. 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. The negotiated price for travel costs will include only one complete round-trip transportation and travel costs between sites of work per assignment.

C.10.4 Contract Field Service Report/Field Service Representative (FSR) Reports

Each FSR shall prepare and deliver via e-mail a report in accordance with CDRL A023 following completion of each assignment covering his activities.

C.11 Data Rights

Data rights for the following items will be determined in accordance with DFARS 252.227-7015(b)(1)(iv):

- DATMs and ETMs (-10, -23&P, -12)
- NET - Operator training materials
- NET - Maintenance training materials
- Diagnostic software

C.12 Quality Assurance Management**C.12.1 Quality Management System**

The Contractor shall implement a quality management system as a measurement of product quality for the EMM-WD that are produced for this contract. The Contractors quality management system shall be made available and accessible at anytime for government review and evaluation to assess the Contractors quality system compliance, implementation and effectiveness.

C.12.2 Quality Records

All records of inspections, examinations, certifications, tests, supplier audits, and purchase orders shall be retained by the Contractor for a period of five years after contract close-out. These records shall be made available (and copies provided) to the Government, upon request. Additionally, where product or process deficiencies have occurred, the Contractor's records shall provide documentation that fully describe the root cause of deficiencies and root cause corrective actions.

C.12.3 Final Inspection Record (FIR)

The Contractor shall prepare, in the Contractors format conforming to CDRL A025, a Final Inspection Record (FIR) that incorporates the requirements of the EMM-WD purchase description (ATPD 2387). The FIR will be utilized by government representatives to conduct acceptance inspection of the EMM-WD and shall be utilized by the Contractor to completely inspect the EMM-WD in its end state, prior to offering the EMM-WD for acceptance. Component items, assemblies and subassemblies that cannot be inspected on the completed system shall be described in the FIR in order that inspections can be conducted during in-process inspection or the build of the system. The completed FIR for each EMM-WD shall be retained at the Contractors facility and shall be available upon Government request.

At a minimum the FIR shall contain:

- Inspection date
- Item serial number
- Inspector's name
- Listing of all inspected characteristics
- Process Name
- Method of inspection
- Inspection frequency
- Acceptance criteria
- Results of inspection
- Disposition

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 20 of 20****PIIN/SIIN** W56HZV-09-D-0134**MOD/AMD** P00023

Name of Offeror or Contractor: E D ETNYRE & CO

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