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	PIIN/SIIN W56HZV-04-R-0037	MOD/AMD 0001

Name of Offeror or Contractor:

SECTION A - SUPPLEMENTAL INFORMATION

1. The purpose of this amendment 0001 to Request for Proposals W56HZV-04-R-0037 is to:
 - a. Amend Section A by adding Paragraph A.3 entitled "PM-PAWS Support Contractors" as shown on the attached continuation sheets.
 - b. Amend Section C by adding Paragraph C.3.1 entitled "Changes to ATPD 2336B", and paragraph C.3.1.1 as shown on the attached continuation sheets.
 - c. Amend Section E paragraph E.1, and paragraph E.1.1 as shown on the attached continuation sheets.
 - d. Amend the title of Contract Line Item Number (CLIN) 0011AA as shown on the attached continuation sheets
 - from: FIRST ARTICLE TEST (FAT)
 - to: FIRST ARTICLE TEST (FAT)/PVT
 - e. Amend the title of Contract Line Item Number (CLIN) 0021AA as shown on the attached continuation sheets.
 - from: FIRST ARTICLE TEST (FAT)
 - to: FIRST ARTICLE TEST (FAT)/PVT
2. All other terms and conditions of Request for Proposals W56HZV-04-R-0037, including the hour and date specified for receipt of offers remain unchanged.

*** END OF NARRATIVE A 002 ***

A.1 In accordance with FAR 9.507-1, all offerors should be aware of any potential organizational conflicts of interest of their firm or any subcontractor they may propose to use for this action. Potential conflicts of interest may include use of firms which provided support to TACOM or other Army organizations in development and preparation of the LMPF requirements. During the course of the evaluation of offers, the Government reserves the right to review any potential of real or apparent organizational conflict of interest of an offeror or offeror's subcontractor.

A.2 TACOM has established the following website specifically for posting (a) amendments, (b) attachments, and (c) answers and/or clarifications to questions for items relative to this solicitation:

<http://contracting.tacom.army.mil/majorsys/lmff/lmff.htm>

A.3 PM-PAWS Support Contractors.

Be advised that the Product Manager for Petroleum and Water Systems (PM-PAWS) may utilize contractors after award of this contract to assist and provide support to the Product Manager (PM) in management of this program. This may include, but is not limited to attendance at various meetings (i.e. Start of Work, Program Status Reviews. etc.), preparation of briefing charts, and PM support of logistics related activities including development of material fielding plans, etc.

We caution potential offerors that items posted to this site are for informational purposes only, and unless specifically added to this solicitation by amendment, will not become part of the resultant contract.

*** END OF NARRATIVE A 001 ***

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0011AA	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p><u>FIRST ARTICLE TEST (FAT) /PVT</u></p> <p>NOUN: PUMPING MODULES</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin Government Approval/Disapproval Days: 480</p>	3	EA	\$ _____	\$ _____

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0021AA	<p>FIRST ARTICLE TEST (FAT) /PVT</p> <p>NOUN: TANK RACKS</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin Government Approval/Disapproval Days: 480</p>	3	EA	\$ _____	\$ _____

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Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT

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SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 Load Handling System Modular Fuel Farm (LMFF)

The Load Handling System Modular Fuel Farm (LMFF) is a Palletized Load System (PLS) and Heavy Expanded Mobility Tactical Truck - Load Handling System (HEMTT-LHS) compatible petroleum storage and distribution system. The LMFF is capable of receiving, storing, filtering, and issuing kerosene based fuels and diesel fuel. The LMFF is an ISO-compatible system that can be rapidly emplaced, operated, maintained, and recovered. A single LMFF unit will be primarily set up in two configurations: a 35,000-gallon capacity fuel farm consisting of fourteen tankrack modules and two pump filtration modules and a 45,000-gallon capacity fuel farm consisting of eighteen tankrack modules and two pump filtration modules. In addition, one pump module will be operable with any number of tankracks up to eighteen, and individual tankracks may be used for bulk distribution missions separate from the pumping modules.

C.2 General

C.2.1 This solicitation is for the procurement of tank rack and pump modules to be fielded in the configuration of both 35,000 gallon and 45,000 gallon capacity Load Handling System Modular Fuel Farms. This solicitation will result in the award of a five (5) year Indefinite Delivery, Indefinite Quantity (IDIQ) contract. 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) and as required by Options issued by the Contracting Officer under this contract.

C.2.2 This Scope of Work (SOW) is for the Load Handling System Modular Fuel Farm, hereinafter referred to as the LMFF. The SOW for the LMFF will consist of a minimum ordering quantity of First Article Pump and Tankrack Modules, Contractor Support of Government Testing, a System Support Package, Data Requirements, a Logistics Demonstration, and five (5) years of production Pump and Tankrack Modules. Additionally, options exist for Contractor conducted New Equipment Training Classes for Operator and Maintainer Classes (years 3 through 5), a Distance Learning Package, and Contractor Technical Assistance/Field Service Representative (years 3 through 5). Section C of the contract has been structured to this effect. Therefore; Paragraphs C.2 through C.18 applies to the base production of First Article Units and to any production effort under the 5 - year IDIQ contract. Paragraph C.19 shall apply if the option for New Equipment Training is exercised. Paragraph C.20 shall apply if the option for Distance Learning is exercised. Paragraph C.21 shall apply if the option for Contractor Technical Assistance/Field Service Representatives is exercised.

C.3 The LMFF system shall meet the requirements stated in Purchase Description ATPD 2336B, dated 10 Mar 2004.

C.3.1 The contractor shall produce and deliver each LMFF and associated data deliverables in accordance with Section B, and shall meet the delivery schedule in the Section F clause entitled "Delivery Schedule". The contractor shall deliver the LMFF with Basic Issue Items (BII) overpacked. The Government will provide the contractor with LMFF Technical Manuals, which the contractor shall overpack in every LMFF delivered to the Government.

C.3.1 Changes to ATPD 2336B

C.3.1.1 Delete the 4th sentence of paragraph 3.5.9.7 and replace with: "The tankrack shall be provided with an automatic shutoff level control device to prevent over filling under all loading operations including recirculation, defueling and bottom loading."

C.3.2 Tiering of Specifications and Standards. The following documents used for the procurement of this system(s) shall be designated as "first tier" requirements, and all requirements therein shall be applicable to this procurement. Design and performance data identified in commercially-based standards, practices, and specifications as "General Notes" and "Notes (e.g. ASTM, CID and similar)" shall be required for the purposes of design and performance criteria, Government and contractor-conducted testing, and other verification activities. The Government's objective in requiring what would normally be considered secondary/tertiary-level and referenced information is due to the non-availability of a traditional Government or commercial style data package that would satisfy the procurement requirements.

- a. CID (Commercial Item Descriptions IAW the Federal Standardization Manual)
- b. ASME
- c. SAE
- d. ASTM
- e. Other specified commercially-based specifications/requirements.
- f. Other specified regulatory-based requirements (EPA, OSHA, UL, NSF, NOAA).

C.4 Integrated Product Team (IPT)

C.4.1 The contractor and the Government shall use an Integrated Product Team (IPT) jointly chaired by both Government and contractor as the primary management vehicle for monitoring the status of work described in this contract. The Government and contractor shall use

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teleconferencing, Internet Home Pages, and shared common databases to ease communication if agreed upon by all parties. IPT members may include personnel designated by the contractor, the Contracting Officer, the Product Manager (PM), and other offices or agencies.

C.4.2 The Government proposes to enter into a voluntary Partnering arrangement with the contractor. Partnering is a commitment between Government and industry to improve communications and avoid disputes. It is accomplished through an informal process with the primary goal of providing American soldiers with quality supplies and services, on time, and at a reasonable price. Should the contractor and Government agree to voluntarily enter into a Partnering relationship, we will follow the guidance in the Army Material Command (AMC) Guide: "Partnering for Success". This guide is located on the Internet at:
http://www.amc.army.mil/amc/command_counsel/resources/documents/Partneringguide/partnering_guide.pdf.

C.5 Data Submission Requirements

C.5.1 The contractor shall deliver all data under this contract, in English, electronically (unless otherwise specified) via Web site, electronic mail, or compact disk, and in MS Office 97 compatible format. Required data shall be delivered to the Government in accordance with the requirements of Exhibit A, the Contract Data Requirements List (CDRL). The Government will provide electronic mail addresses during the start of work meeting.

C.5.2 In addition to the addresses listed in block 14 of the CDRL, an electronic copy of the cover letter accompanying data deliverables shall be submitted to the System Acquisition Manager (SAM) and the Procuring Contracting Officer (PCO).

C.5.3 The contractor shall prepare technical data and reports as specified in the applicable Data Item Description (DID), or as described elsewhere in the contract. In the case of an inconsistency between the DID and the contract, the requirements of the contract shall prevail. Tailored DIDs referenced in the contract SOW and CDRLs (identified by (T) following the DID number) are identified in Section J as attachments to the contract. Should the contractor need to review DIDS that are not tailored in the Contract or Delivery Orders, refer to the database at "<http://dodssp.daps.mil/assist.htm>". To obtain documents at no cost, click "Quick Search".

C.6 Meetings and Reviews

C.6.1 The contractor shall conduct meetings and reviews to provide the Government the means to assess the progress of the total technical effort and to address identified program issues and risks. Before such meetings and reviews, the Government and contractor shall agree upon a common agenda. Meetings and reviews shall be conducted at the contractor's facility unless otherwise jointly agreed upon between the contractor and the Government contracting agency. The Government reserves the right to call informal meetings and reviews as deemed necessary during the course of this contract, including weekly telephonic reviews. The contractor shall prepare the minutes of the meetings and reviews, including action items and suspense dates, and deliver them in accordance with:
 CDRL A001

C.6.2 Resources and Materials. The contractor shall provide the necessary resources and materials to conduct the meetings and reviews effectively.

C.6.3 Start of Work Meeting. Within 30 calendar days after contract award, the Government and the contractor will hold a Start of Work Meeting. The meeting shall be held at the contractor's facility and shall include approximately twenty-five (25) Government personnel. The purpose of this meeting is to review, at a minimum, contract terms, contract conditions, contract requirements, data items, required specifications, test requirements, and logistics requirements. The contractor shall also review and demonstrate to the Government their management procedures, review technical and other status, identify program implementation processes, and establish schedule dates for near term critical meetings and actions. The contractor shall also introduce key management and contract personnel.

C.6.4 Program Status Reviews (PSR). Joint Government-contractor program status reviews shall be held quarterly for the first three years then semi-annually thereafter until completion of the contract. Typically, these reviews will last one to two days. Initial program status review shall be conducted approximately 90 days after the start of work meeting. Program status reviews shall be held at the contractor's facility unless agreed to otherwise by the parties. PSRs shall address but not be limited to the following agenda items: the contractor's progress, management, technical support services (if any), integrated logistics support, systems engineering, administrative, contract compliance, program status, funding issues, problem identification and resolutions, and deliverables. Actual versus expected performance of each area shall be addressed. The contractor shall prepare presentation materials providing an overview of all agenda items.

C.6.5 Logistics and Engineering Working Group Meetings. The initial Logistics Working Group meeting and Engineering Working Group meeting shall be held concurrently with the Program Status Reviews. Logistics and Engineering Working Group meetings shall include discussion pertaining to development of technical manuals, training, provisioning, drawings, and any other logistics or engineering issues that need to be addressed. Additional working group meetings shall be convened as necessary.

C.7 Configuration Management

C.7.1 Configuration Control. The contractor shall be responsible for configuration control, disposition, and control of all nonconforming material throughout the program. The contractor shall establish a configuration baseline following testing and acceptance of the FAT/IOT&E by the Government. This baseline will identify and document the functional and physical characteristics of the LMFF at

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that time.

C.7.2 Engineering Change Proposals. Changes to established baselines shall only be made after Government approval of an Engineering Change Proposal (ECP). Changes shall be identified to affected assembly serial number, or if not part of an assembly, to the affected equipment serial number. All Class I ECP's shall require Government approval prior to implementation. Class II ECP's do not require prior approval; however, the contractor shall notify the Contracting Officer, by means of an ECP, not less than 60 days prior to implementing any configuration changes. ECPs shall be prepared in accordance with Attachment 001 and delivered in accordance with: CDRL A002.

C.7.3 Requests for Deviation. The contractor shall submit Requests for Deviation (RFD) from current approved configuration documentation. Authorized deviations are a temporary departure from the requirements and do not constitute a change in an approved baseline. Where it is determined that a change should be permanent, the contractor shall submit an ECP. RFDs shall be prepared in accordance with Attachment 003 and submitted in accordance with: CDRL A003.

C.8 Integrated Logistics Support (ILS) Program

C.8.1 The contractor shall assist the Government's Logistics Support contractor in developing, testing, producing, and delivering the logistic data to support the Load Handling Modular Fuel Farm (LMFF) as described in paragraphs C.8.2 through C.9.7.

C.8.2 The contractor shall plan, manage and ensure ILS considerations are an integral part of the overall system.

C.9 Contractor Support and Support Data During Publications and Provisioning Development

C.9.1 The contractor shall attend the Maintenance, Publications and Provisioning (MPP) start-of-work meeting for the Government Logistics Support contractor's contract. The contractor shall also attend, at a minimum, two In-Process Reviews (IPRs) for the Government Logistics Support contractor's contract. The contractor's representatives in attendance at the IPR shall be subject matter experts (SME) in the operation and maintainability of the LMFF system. Location of said meetings/reviews will be determined upon selection of the Government's Logistics Support contractor.

C.9.2 The contractor shall designate a point of contact (POC) to receive and respond to any issues that arise for both publications and provisioning efforts. The POC is to respond to the Government and Government Logistics Support contractor's requests for information in writing within three business days, to acknowledge receipt and establish time frame for technical answer.

C.9.3 The contractor shall provide the Government and the Government's Logistics Support contractor ongoing technical support and information, to include at a minimum, clarification of operation, troubleshooting, maintenance, repair parts and special tools until materiel fielding is accomplished.

C.9.4 The contractor shall provide the Government and the Government's Logistics Support contractor access to the contractor's production facility to view, photograph, measure, and witness operation of the LMFF as required, regardless of the status of the production build. This support also includes access to office space, telephone, fax, modem line and Internet access. The Government will coordinate all site visits with contractor management.

C.9.5 Logistics Management Information (LMI) Data Products. The contractor shall provide to the Government and the Government's Logistics Support contractor the following data and support for the complete development of the provisioning and publications submissions:

(1) Parts List containing at a minimum:

- a) CAGE/Source of Supply and Part Number for all items, including tools and test equipment.
- b) Item nomenclature
- c) Estimated unit price for each item listed
- d) Quantity per assembly/end item
- e) Maintenance replacement rate/failure factors derived from Reliability and Maintainability (R&M) information
- f) Identify a minimum of two approved sources of supply (or justification for a single source of supply).
- g) Bill of Material (BOM) before and after test.

(2) Descriptive or supporting technical data for all replaceable items including engineering drawings, brochures, schematics, catalog pages, commercial manuals or pamphlets to depict the following:

- a) Parts breakout of assemblies to the component level including vendor components
- b) Relationship breakout with references to the end item:
 - * end item
 - * assembly
 - * subassembly

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- * component
- * attaching hardware
- c) Hardware descriptive data such as:
 - * thread diameter
 - * quantity of threads per inch
 - * fastener length
- d) Type of Material
- e) Dimensions

The LMI data shall be prepared and delivered in accordance with:
CDRL A005

C.9.6 The Government will conduct a technical manual validation/verification and provisioning conference at the Contractor's facility. The contractor shall provide the following:

- (1) Qualified personnel to perform disassembly and assembly of the unit.
- (2) Production version of the LMFF
- (3) Special and common tools
- (4) Support equipment
- (5) Facilities and office space
- (6) Mandatory replacement parts needed for assembly/disassembly tasks
- (7) Expendable supplies and materials
- (8) Spare parts consumed or destroyed during any disassembly or assembly process (such as gaskets and seals).
- (9) Technical support and information, to include at a minimum, clarification of operation, troubleshooting, maintenance and repair parts and special tool list, as provided to the Government's Logistics Support contractor.

C.9.7 After submitting LMI data, if the contractor changes form, fit or function or any parts vendor, prior to First Article Test (FAT) approval, the contractor shall provide the Government and the Government's Logistics contractor notification in writing within three business days. Contractor shall provide updated LMI data, including a summary of changes and revised BOM, within five business days after the implementation of hardware change.

C.10 Military Packaging Documentation Requirements

The contractor shall develop packaging requirements for the complete system. The system requirements are developed as part of the Shipment and Storage (S&S) instructions.

C.10.1 Shipment and Storage (S&S) instructions. The contractor shall provide and update S&S instructions. When preparing the S&S instructions, the contractor shall ensure those instructions are consistent with the transportability requirements stated in the PD and transportability report required elsewhere in this contract. The S&S instructions shall detail procedures required to prepare the system for storage and for transport after it has been in operation. The S&S instructions shall be formatted and delivered in accordance with:

CDRL A006

C.10.2 S&S processing instructions required:

a. Short Term Storage (180 day maximum in an unheated warehouse) for application when items are in transit. Short term S&S processing instructions will be sufficient to protect the items when they are intended for immediate use.

b. 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.10.3 Compliance with Federal and Industry Transportation Requirements. The Government ships using truck, rail, plane and ship. The contractor shall develop packaging requirements and S&S 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 shipment. 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 transport vessel transport
- (3) AFMAN 24-204, Preparing Hazardous Materials for Military Air Shipments
- (4) International Air Transportation Association (IATA) Dangerous Goods Regulations

The contractor shall include disassembly procedures to meet the requirements of the codes and standards mentioned above.

C.10.4 Packaging Instructions for Basic Issue Items. The contractor shall ensure that the shipment and storage instructions include

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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.10.4.1 BII and COEI Packaging. The contractor shall identify, in the shipment and storage instructions, provisions for stowage location and security for the BII and the COEI. The contractor shall provide that HAZMAT COEI shall be shipped separately from the system and packaged according to the mode of transportation. The instructions shall address selection of stowage locations which deter pilferage. Compliance with S&S instructions shall not interfere with lifting, tie down or other transportation handling requirements.

C.10.5 Updates and Changes to Shipment and Storage Instructions. The contractor shall revise the shipment and storage instructions to reflect design changes that affect the system's 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 or COEI.

C.10.6 Validation of Shipment and Storage Instructions. The contractor shall validate the shipment and storage instructions. Both long term and short-term storage instructions shall be validated at this time. 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 validation procedures. The contractor shall notify the Government 14 days prior to scheduled validation. The final submittal of the Shipment and Storage Instructions (CDRL A006) shall reflect the corrections required as a result of the validation.

C.10.7 Packaging Requirements. The contractor shall develop packaging data for spare and repair parts, as determined during the provisioning process. This shall consist of coded packaging data (select group items per MIL-STD-2073) and Special Group Items requiring Special Packaging Instructions (SPIs). The contractor shall provide Logistics Management Information (LMI) Data Products for packaging data systems entry as specified in MIL-PRF-49506 (see DI-ALSS-81529), and Attachment 004 titled Logistics Management Information (LMI) Packaging Data Products. Data is required for all parts that are provisioned (P-source coded) and field level kits (KF-source coded).

C.10.7.1 Coded Packaging Data/Select Group Items. Select group items are items where packaging can be adequately described using the codes in Appendix J of MIL-STD-2073. The Government will provide the contractor with quarterly reports showing status of the packaging program. Data is critical to populating the National Stock Number Master Data Record (NSNMDR) and the Federal Logistics Information System (FLIS) Government data files and shall be 90% accurate. The contractor shall rework submittal errors within 20 days after rejection by the Government. The contractor shall provide the necessary personnel, facilities, equipment, material, and the electronic data interface. The contractor shall include information for each of the items so TACOM can determine the adequacy of the packaging submittal. This includes item drawings and data, as finalized at the provisioning conference, such as Source, Maintenance & Recoverability codes, Unit of Issue codes, Unit of Measure, Measurement Quantity, and copies of applicable Material Safety Data Sheets. The contractor shall furnish item drawings, photo documentation and notes sufficient for reviewing the packaging designs. Submission shall be in accordance with:
CDRL A007.

C.10.7.2 Special Packaging Instructions (SPI). The contractor shall prepare SPIs for each reparable item, each hazardous material item, each fragile, sensitive, critical item, and any item that cannot be adequately packaged/defined as a Select item, following MIL-STD-2073-1D. Compliance with SPIs shall assure meeting performance requirements of ASTM D4169, Distribution Cycle 18, Assurance Level I, with Acceptance Criterion 3 (Product is damage free and package is intact). Each SPI submittal shall have a test report, including photographs, attached showing the condition of the package and part before and after testing. Acceptable photographic evidence shall show the product is undamaged from all angles. SPI shall be in a format that can be viewed, changed, and commented upon (for example, Microsoft Word 6.0, see CDRL A008 and DID DI-PACK-80121B). The contractor shall provide read/write access to SPI. All data submitted shall be contractor validated and 95% accurate. The contractor shall rework submittal errors within 20 days after rejection by the Government. Submission shall be in accordance with:
CDRL A008.

C.10.7.3 Excluded Items. Excluded items are those items with packaging data already in the TACOM Packaging File "PACQ", FEDLOG, Federal Logistics Information System (FLIS), and those assigned a Contractor and Government Entity Code (CAGE) of: 1T416, 21450, 80204, 96906, 10060, 24617, 80205, 99237, 80244, 81343, 81346, 81348, 81349, 81352, or 88044. Also EXCLUDED are items for:

- (1) not mission capable supply
- (2) depot operational consumption
- (3) not-for-stock supply

C.10.7.4 Change Notices. The contractor shall assess engineering and logistics changes for packaging impact, provide revisions and additions to the packaging information when there is a packaging impact, and provide packaging impact statements with change notices with a 90% accuracy rating. The Government will verify contractor impact statements.

C.11 Safety Engineering and Health.

C.11.1 Safety Engineering Principles. The contractor shall address the Safety and Health requirements of the PD in technical reviews. The contractor shall follow good safety engineering practices in establishing the LMFF design and operational procedures, to include

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modifications to commercial components. The contractor may use MIL-STD-882D as a guide in determining whether safety engineering objectives are met. At a minimum, the contractor shall:

a. Identify hazards associated with the system by conducting safety analyses and hazard evaluations. Analysis shall include operational, maintenance, and transport aspects of the LMFF.

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.11.2 Safety Assessment Report (SAR). As a result of system safety analyses, hazard evaluations, and any independent testing, the contractor shall perform and document a safety assessment and health hazard assessment. The safety and health hazard assessment shall identify all safety features of the hardware, system design and inherent hazards and shall establish special procedures and/or precautions to be observed by our test agencies and system users. The contractor shall identify health hazards associated with the system and incorporate them into the SAR. MIL-STD-882D provides guidance in the preparation of the SAR and Health Hazard Assessment. In preparing the health hazard portion of the SAR, the contractor shall provide a description and discussion of each potential or actual health hazard issue of concern for each subsystem of component. 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. The contractor shall include in the SAR copies of the Material Safety Data Sheets (MSDS) for all hazardous materials incorporated into the system. The use of such materials shall be in accordance with the requirements set forth in ATPD 2336B, dated 10 Mar 2004. The final SAR is subject to Government approval. The Contractor shall prepare the SAR in accordance with:

CDRL A009

C.12 Environmental Requirements

C.12.1 The contractor shall not use cadmium, hexavalent chromium, asbestos or Class I or Class II Ozone-Depleting Substances, or other highly toxic or carcinogenic materials without Government approval. The contractor shall not use materials that are identified in the Registry of Toxic Effects of Chemical Substances, published by the National Institute for Occupational Safety and Health, as materials that will produce toxic effects via the respiratory tract, eye, skin or mouth. Moderately toxic materials may be used provided the design and control preclude personnel from being exposed to environments in excess of that specified in 29 CFR 1910, Occupational Safety and Health Standards.

C.12.2 The contractor shall manage the efforts described by this contract to ensure that all aspects of the contract execution, including, but not limited to the following contractor activities: design, manufacturing, testing, and storage activities, are in compliance with Federal, State and Local environmental regulations and requirements. The contractor shall notify the PCO immediately, if the Government gives any direction that could result in permit violations.

C.12.3 The contractor shall prepare a Hazardous Material Management Report which, at a minimum, shall identify all hazardous materials (as defined in FED-STD-313D, paragraph 3.2) 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, and shall be briefed at all Program Review Meetings.

C.13 Transportability Report. The contractor shall submit a transportability report for the LMFF that includes data on recommended procedures for positioning and securing the LMFF modules for transportation by highway, rail, marine, and air and slinging procedures for lifting the modules in accordance with:

CDRL A010

C.14 Logistics Demonstration and Plan

C.14.1 Logistics Demonstration Plan. The Government and contractor shall jointly develop a Logistics Demonstration (LD) plan. The LD Plan shall contain the Government and contractor plans and procedures for demonstrating the logistics supportability of the system. The plan shall contain a statement of demonstration objectives and the qualitative and quantitative requirements to be demonstrated. The contents of the plan shall contain a description of the demonstration conditions. The following areas shall be addressed:

- a. A listing of tasks to be demonstrated.
- b. Demonstration conditions including the following:
 - (1) The principle operating modes, operating time and cycling conditions to be imposed.
 - (2) A description of the demonstration facilities and instrumentation requirements, including location.
 - (3) The mode of operation during the demonstration considering configuration and mission requirements.
 - (4) Demonstration constraints such as manpower (by number and skill level), test equipment and their relationship to the eventual use of the items.
- c. The types and quantities of equipment and materials to be used including Government furnished equipment.
- d. The maintenance concept.
- e. Provisions for a pre-demonstration phase to prepare facilities, personnel and equipment for the formal demonstration.
- f. Expected results, including the following:
 - (1) The method to be used to report test levels.

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(2) The data expected from each test along with the recording methodology and definition of provisioning data elements to be collected.

(3) Analytical methods and calculation procedures to be used to analyze demonstration data.

(4) The criteria for classifying demonstration results as successes or failures. Definition of failure must relate to expected symptoms that will be observed by operators and maintenance personnel.

g. The plan of action to be used when demonstration failures occur.

h. The participating agencies including:

(1) Organization.

(2) Degree of participation by each in terms of managerial, technical, maintenance and operating personnel.

(3) Assignment of specific responsibilities.

(4) Qualifications, quantity, sources, training and indoctrination requirements needed for the personnel participating in the LD.

C.14.2 Logistics Demonstration. The Government will conduct a Logistics Demonstration (LD). The LD shall be conducted over ten (10) business days. A LD is a nondestructive disassembly and re-assembly of the LMFF tankrack and pumping module. System peculiar Test Measurement and Diagnostic (TMDE) and support equipment, as well as the system support package, is also tested to determine their logistics status. The LD will include performance of all the operational tasks and scheduled maintenance tasks required for the LMFF:

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.14.3 The Contractor shall supply all expendable and durable items required to perform the LD tasks. The contractor shall provide technical and engineering support, as required to assist the Government in the performance of the LD effort. The contractor shall provide the facilities to support the LD. These facilities shall include an operations site, a shop area equipped with lifting equipment and all the tools and diagnostic equipment required to perform all operations and maintenance tasks.

C.14.4 The contractor shall develop and conduct an introduction to the vehicle for Government support personnel and data collectors prior to the Logistics Demonstration. Training dates will be negotiated between the contractor and the Government. The training will cover system operation and controls required to safely operate the vehicle. The training shall be at least 50% hands-on training. The maximum length of the training class is 8 hours. The training 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.15 Contractor Support of Government Testing

C.15.1 The contractor shall provide qualified technical personnel to support Government conducted tests required in this contract on an "as needed" basis to provide advice, troubleshooting, maintenance assistance, and repair of the LMFF when requested by the Government. The contractor personnel shall be at the test site within 48 hours of notification by the Government. The contractor shall obtain specific requirements, if any, for access to Government test facilities 30 days prior to the start of testing. If a security clearance is needed the contractor shall be responsible for ensuring all coordination is made with the appropriate personnel. The contractor may be required to provide personal vital statistics, including documentary evidence, such as a birth certificate and such other evidence to affect a security clearance.

C.15.2 System Support Package (SSP)

C.15.2.1 The contractor shall deliver a SSP to support both the FAT and IOT&E testing. The SSP shall include:

(1) Parts needed for scheduled maintenance or replacement items that will be consumed during the life of tests.

(2) Unique, non-military standard, expendable supplies such as petroleum, oils, and lubricants.

(3) Basic Issue Items and Components of End Items as required by its design per system.

(4) Any tool or Test Measurement and Diagnostic Equipment (TMDE) required to perform maintenance and any diagnostic maintenance procedures, to include vendor or manufacturer software programs and/or hardware that are not identified in the Army Supply Catalogs.

C.15.2.2 The contractor shall provide a list of the SSP contents in accordance with:

CDRL A011

C.15.3 The contractor shall provide a replacement for any part or item that fails to perform its function during the test within 48 hours of notification.

C.15.4 Following completion of the tests, the contractor shall submit a list of remaining parts with the current price information to the Government. The Government reserves the right to provide the unused/remaining parts as Government Furnished Material (GFM) under

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this contract. If so, an equitable adjustment to the contract shall be made.

C.15.5 If re-testing is necessary as the result of contractor failures, the contractor shall provide the necessary SSP items to support this additional testing at no cost to the Government.

C.16 Test Unit Refurbishment - Cost Reimbursement

C.16.1 Following completion of the Logistics Demonstration, FAT, and IOT&E, the Government in conjunction with the contractor will examine the test units to determine if it is feasible to refurbish the test units. The Contractor shall submit a cost proposal for refurbishment cost by unit. Final decision of refurbishment shall remain solely with the Government. Should the Government direct refurbishment of any or all units, the contractor shall refurbish the units to the current (all approved corrective actions and engineering changes) production baseline. Refurbishment shall be completed within ninety (90) days of Government notice. Thirty days following completion of each unit, the contractor shall submit a proposal for equitable adjustment. All refurbishment costs will include transportation costs from the test site to the contractor's facility.

C.16.2 The effort shall include but is not limited to the contractor:

- (1) Replacing all oils and lubricants
- (2) Replacing all filters
- (3) Repainting the exterior of the units as required

C.16.3 Following the refurbishment, the contractor shall present the units to the Government for acceptance.

C.16.4 All effort under this paragraph shall be paid under a cost reimbursement CLIN of the contract.

C.17 Retrofit of Units Built Prior to FAT Approval. The contractor shall, following PCO notification that FAT has been approved, retrofit all LMFF modules (excluding test units) built or in process at time of notification to the configuration baseline established after successful completion of the FAT. Configuration changes made at the direction of the Government shall be subject to an equitable adjustment. Configuration changes made by the contractor shall be at no additional cost to the Government.

C.18 Training Requirements.

C.18.1 General Operator and Maintainer Courses. The contractor shall develop training material (courseware) to cover one course for operator and one course for maintenance tasks for the LMFF. The contractor shall be responsible for initial 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 LMFF. Trainees may either be Government personnel or Government support contractors. The training shall include any necessary equipment to support operation, Preventive Maintenance Checks and Services (PMCS), and operator and unit maintenance of the LMFF. Instruction shall consist of approximately 40% classroom and 60% practical exercise, and teach operation, setup and disassembly, PMCS, inspection, testing, troubleshooting, and safety procedures.

C.18.2 First Article Test (FAT) Operator and Maintainer Training. Training to support the FAT shall consist of one operator course and one maintainer course in accordance with C.18.1. The contractor shall conduct FAT training prior to the beginning of the FAT (See clause E-4) for a maximum of 20 students at Yuma Proving Ground, AZ. 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 operator course shall not be more than 40 hours in length; the maintainer course shall not be more than 40 hours in length. The total time of the FAT training shall not exceed 80 hours. The contractor shall deliver the LMFF, all lesson materials, training literature, training aids, special tools and test equipment, and all tools necessary to disassemble and assemble, to the training site not later than seven days prior to the training.

C.18.3 FAT Data Collector Orientation. This orientation is a general overview of the system. Data requirements are not applicable. The contractor shall develop and conduct an introduction to the system for Government support personnel and data collectors prior to FAT (See clause E-4). 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 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 additional observers.

C.18.4 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 in accordance with C.18.1. The contractor shall conduct IOT&E training for a maximum of 20 students at Ft. Hood, TX prior to the beginning of the IOT&E (See clause E.1.2). The Government reserves the right to have additional personnel present during the 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 40 hours in length; the maintainer course shall not be more than 40 hours in length. Total time of the IOT&E training shall not exceed 80 hours. The contractor shall deliver all lesson materials, training literature, training aids, special tools and test equipment, and all tools necessary to disassemble and assemble, to the training site not later than seven

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days prior to the training.

C.18.5 IOT&E Data Collector Orientation. This orientation is a general overview of the system. Data 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 (See clause E.1.2). 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 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 additional observers.

C.18.6 Training Course Outline. The contractor shall deliver a training course outline for all training courses in accordance with DI-ILSS-80872(T). The outline is a schedule of events and includes a breakdown of individual topics showing the time allotted, materials required (TV, VCR, etc.), facility requirements, reference materials, type of instruction (practical exercise, lecture, demonstration, video, etc.) and tools required for each topic. Commercial format is acceptable; a sample outline will be provided to the contractor at the start of work meeting. The Training Course Outline shall be formatted and delivered in accordance with:
CDRL A012

C.18.7 Training Materials. The contractor shall deliver an Instructor Guide and a Student Training Guide for all training courses in accordance with DI-ILSS-80272(T). Training Materials shall contain equipment and component description, functional data, training handbooks that include, by sub-component for LMFF operation, setup and disassembly, inspection, testing, troubleshooting, and safety procedures. All training materials shall be formatted and delivered in accordance with:
CDRL A013

C.18.8 Training Course Completion Report. The contractor shall deliver a Training Course Completion Report for all training courses in accordance with DI-ILSS-80872(T). The contractor shall datafax or e-mail to the Government a list of students in attendance on the first day of training. The Government will send completed Certificates of Training to the instructor after the Government receives the list of students in attendance, to be presented at the end of the class. The contractor may also provide corporate certificates if desired. The Government will provide the contractor with course critiques that the contractor shall administer to each student at the end of each class conducted. For each class, the Government will provide a student attendance list, to be administered by the instructor. The contractor shall submit the critiques and completed student attendance list no later than 10 days after completion of each class. Training Course Completion Report shall be formatted and delivered in accordance with:
CDRL A014

C.18.9 Instructor and Key Personnel (I&KP) Operator and Maintainer Training. The contractor shall provide I&KP training and shall utilize developed courseware. I&KP training shall consist of courses for actual Army operators and maintainers. The contractor shall conduct a total of two classes consisting of one class for Army operators and one class for Army maintainers, for a maximum of 20 students each. The Government reserves the right to have additional personnel present during the conduct of course. Training will be conducted at Ft. Lee, VA. Each course shall not exceed 40 hours. These courses shall be targeted to instructor and key personnel who will operate and maintain the system. Following completion of I&KP training, approved Government comments shall be incorporated into the courseware to yield a final product. If Distance Learning is available, the contractor shall maximize the use of distance learning to reduce platform instruction through videotape, Internet web based, computer based, CDROM, and interactive CDROM training programs. The contractor shall deliver all the lesson materials, training literature, training aids, special tools and test equipment, and all tools necessary to disassemble and assemble, to the training sites not later than seven days prior to the training.

C.19 New Equipment Training Classes - Option

C.19.1 The Government may require the contractor to conduct New Equipment Training (NET) to take place at Government sites, at the using units' locations, at the prices stated in Section B and under the option clause H.1.1. Trainees may either be Government personnel or Government support contractors. Class size shall be no more than twelve (12) students. Course requirements and course content shall utilize Government approved training materials. Both operator and maintainer classes shall not be more than 40 hours in length. The Government will provide the contractor 30 days notification for CONUS classes. The Government will provide the contractor 90 days notification for OCONUS classes. It is estimated that a total of 40 classes (20 operator and 20 maintainer) over the 5 year contract will be required. Duration and number of courses will be defined upon exercise of option/delivery order. The per class rate is exclusive of subsistence, lodging, and incidental expense incurred for NET. The Government will pay these expenses on a cost reimbursable basis.

C.20 Distance Learning Package(s) - Option

C.20.1 Distance Learning Package (DLP). This contract contains in Section H.1.2 a Distance Learning Package (DLP) option. The contractor shall provide a CD ROM interactive courseware training package(s) for the items below for DLP if the option(s) is exercised:

- (a) General End Item Description
- (b) Proper Use/Operation of the end item
- (c) Safety Issues/Warnings

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(d) Operator's Level Preventive Maintenance Checks and Service (PMCS)

C.20.2 The CD must be compatible with the most recent version of the Tool Book Instructor Hypertext Markup Language (HTML) format. The DLP shall be formatted and delivered in accordance with:
CDRL A015

C.21 Contractor Field Service Representative Requirements (FSR) - Option

C.21.1 If the option under paragraph H.1.3 for Field Service Representative is exercised, the contractor shall provide technically qualified personnel to provide support to the Total Package Fielding team (defined as representatives of the Government) during the handoff to the U.S. Army receiving units or activities designated by the Government.

C.21.2 Total Package Fielding (TPF)/Handoff Support. The contractor shall provide technical qualified personnel to accomplish deprocessing of the end item and its components, assist in unit joint inventory, prepare unit shortage list, and the quality deficiency reports (QDR, SF 368). Completed customer documentation shall remain with the Government TPF personnel.

C.21.2.1 Deprocessing. The contractor shall perform on-site preparation of equipment at the hand-off site, including complete operator and maintainer preventive maintenance checks and services (PMCS). Upon completion of deprocessing, the equipment shall be 100% fully mission capable.

C.21.2.2 Joint Unit Inventory. The Government material fielding team, contractor, and unit gaining representative shall conduct a joint inventory of all major items and components. The customer documentation packages will be completed and turned over to the Government Material Fielding Representatives. The Government will provide the contractor with the joint inventory form (DA Form 5684-R).

C.21.2.3 Shortage List. The Material Fielding Team and contractor shall prepare a shortage list (DA FORM 2062) of all missing items prior to fielding with a description of the item, nomenclature, NSN, part number, quantity and date of availability. This list shall be attached to the joint inventory.

C.21.3 The Field Service Representative shall be paid on man-days as reflected in Section B of the contract. Travel expenses and per diem will be paid on a cost reimbursable basis in accordance with Joint Travel Regulations (JTR).

C.21.3.1 The Contractor shall provide qualified Contractor Field Service Representative(s) (FSR) in support of Total Package Fielding who shall advise/make recommendations to orient and instruct key Government personnel regarding operations, maintenance, repair, and supply of contractor parts for the LMFF, including all components.

C.21.3.2 The PCO shall designate the times and locations of the service to be performed by e-mail, but will not supervise or otherwise direct activities. Within a half working day of notification, if possible, the contractor shall notify the TACOM Contract Specialist of the transportation costs (best commercially available round trip airfare, if air transportation is necessary, and hours of travel required to and from the site) to be included in the order. Following receipt of the information and negotiation, the contract will be equitably adjusted prior to the FSR commencing travel or effort.

C.21.3.3 The contractor will obtain specific requirements, if any, for access to Government facilities located in CONUS 30-days prior to each fielding and 90 days prior to fielding in OCONUS. If a security clearance is needed at the site where the FSR will perform his/her services, the contractor shall be responsible for ensuring all coordination is made with the appropriate personnel. The Contractor may be required to provide personal vital statistics related to the FSR, including documentary evidence, such as a birth certificate and such other evidence to effect a security clearance. It is recommended, though not a contract requirement, that the contractor initiate clearances for potential FSR's following award.

C.21.3.4 Within ten working days of completion of an assignment, the FSR shall prepare and deliver via e-mail a report, in contractor format, which synthesizes his/her activities in accordance with:
CDRL A016

C.21.4 Man-Day of Service. The FSR shall work no more than eight (8) hours per day, excluding travel time, unless authorized by the PCO. A man-day of service includes any period during which the FSR is delayed or prevented from performing any task only if the delay or non-performance is solely the fault of the Government.

C.21.4.1 Travel time for initial travel from the contractor facility to the work site, for travel between work sites, and for travel back to the contractor's facility shall be paid as a daily rate of service and may be over/above the eight hours allowed per work day.

C.21.4.2 The man-day rate is exclusive of subsistence, lodging, and incidental expense incurred by the FSR while performing the services. The Government will pay these expenses on a cost reimbursable basis.

C.21.4.3 The man-day rate of service is exclusive of all transportation costs, which includes airfare and local rental car in and around the job site. The Government will pay the contractor on a cost reimbursable basis for auto rental rates for the site of the

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service as well as airfare, if airfare transportation is necessary, during performance of services under orders issued in accordance with this scope of work.

C.21.4.4 The man-day of service includes all Government delays, travel time (all inclusive), and report preparation completed at the duty location. In addition to payment for actual days worked, the Government will pay for official U.S. holidays if it is necessary for the representative to be present on those days to complete the technical assistance assignment that would be normal workday(s) at the FSR's facility. When the FSR is on site on a Saturday or Sunday, but is not working, the Government will pay only the per diem and local transportation costs. The granting of vacation time off, holidays other than official U.S. holidays, sick and emergency leave is solely the responsibility of the contractor and shall not be paid for by the Government under the terms of this contract. It is immaterial whether the same representative completes an assignment, but the Government will not pay additional travel costs or time if the contractor decides to rotate personnel during the course of an assignment, unless authorized by the PCO.

*** END OF NARRATIVE C 001 ***

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SECTION E - INSPECTION AND ACCEPTANCE

E.1 First Article Test (FAT). FAT consists of the Product Verification Test (PVT) and Initial Operational Test and Evaluation (IOT&E) in the form of a Limited User Test (LUT).

E.1.1 First Article Test (FAT) Product Verification Test (PVT). The contractor shall deliver three pumping modules and three tankcracks to Yuma Proving Ground, AZ, 210 days after contract award for FAT. The shipping documentation shall contain this contract number and lot/number identification. The characteristics that the units must meet are specified elsewhere in this contract.

E.1.2 Initial Operational Test and Evaluation (IOT&E). The contractor shall deliver one LMFF, consisting of two pumping modules of Contract Line Item 0011AB and fourteen tankcrack module units of Contract Line Item 0021AB, within 300 calendar days from the date of this contract to Ft. Hood, TX for Government conducted IOT&E on the LMFF. Total duration of Government IOT&E will be approximately 30 days; however, IOT&E will be conducted subsequent to FAT. Any delay in FAT will result in a delay of IOT&E start. The Government will conduct IOT&E in accordance with Government Test Plan. The purpose of the IOT&E is to determine operational suitability and effectiveness. After completion of testing, the Government in conjunction with the contractor, will examine the test units to determine if it is feasible to refurbish the test units. If it is determined that refurbishment is feasible, the contractor shall submit a cost proposal for refurbishment in accordance with paragraph C.16.1. Contractor support for IOT&E shall be limited to submission of an SSP and training.

E.2. 52.246-4028 Inspection Point: Origin

E.2.1 Acceptance of these supplies will be performed at the address or addresses designated as inspection point.

E.2.2 Inspection of the supplies as described elsewhere in this solicitation/contract will be performed at the facility identified below.

(INSERT CONTRACTOR ADDRESS)

E.3. 52.246-4029 Acceptance Point: Origin

(INSERT CONTRACTOR ADDRESS)

Contractor shall produce the LMFF LRIP and production quantities at the same facility.

E.4 Quality System

E.4.1 The contractor's quality system shall include the following key quality activities:

- Establish Capable Processes,
- Monitor and Control Critical Product and Process Variations,
- Establish Mechanisms for Feedback of Field Product Performance,
- Implement an Effective Root-Cause Analysis and Corrective Action System, and
- Continuous Process Improvement

E.4.2 At any point during contract performance, the Government will have the right to review the Contractor's quality system to assess its effectiveness in meeting contractual and regulatory requirements.

E.4.3 Certification of compliance or registration of the quality system by an independent standards organization or auditor, NATO, or the Government to recognized standards does not need to be furnished to us under this contract. However, you may attach a copy of such certification with your offer, in response to the solicitation, as proof of current or previous compliance. At any point during contract performance, the Government will have the right to review your system to assess its effectiveness in meeting contractual and regulatory requirements.

E.5. Quality Conformance Inspections

E.5.1 The contractor shall develop and implement a quality acceptance, inspection and test (AI&T) plan for the LMFF production, test, and refurbishment units to include all models. This acceptance inspection and test (AI&T) plan shall demonstrate the adequacy and suitability of the contractor's production processes and procedures for achieving the performance inherent in the product baseline. This acceptance inspection and test plan (AI&T) plan with sign off sheets (check-lists) shall be submitted to the Government for approval prior to any acceptance of the LMFF system either for testing or production by Government QAR inspectors. The contractor shall conduct testing that will ensure that the manufacturing processes, equipment, and procedures are effective, in accordance with ATPD 2236B, paragraph 4.1.2 (AI&T) with a Government QAR present. A production test checklist with Government Quality Assurance Representative (QAR) approval shall be overpacked with each unit. Evidence of any failure during the acceptance inspection and test (AI&T) requirements in ATPD 2236B paragraph 4.1.2 shall constitute rejection of the unit by the Government QAR. The AI&T shall be formatted and delivered in accordance with DI-NDTI-80603, Test Procedure (AI&T) and the following CDRL:

CDRL A018

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E.5.2 Failure of any inspection as specified in ATPD 2336B, Section 4.1.2 AI&T shall constitute a rejection of the unit. The contractor shall initiate, internally document, and implement corrective action on any failure. The contractor shall notify the Government Quality Assurance Representative (QAR) in writing of any corrective action proposed. The Government QAR shall determine if the failed inspection shall be repeated on the representative unit after implementation of the corrective action. All costs related to these inspections are to be borne by the contractor, including any and all costs for additional tests, inspections, and corrective actions following a failure.

E.6 Drawings For Inspection.

The contractor shall make available to the Government inspector at the time of any Government inspection (in-process or end item), legible drawings and printed specifications to which the product was manufactured. These drawings and specifications shall be annotated to the latest revision incorporated therein. Upon completion of product inspection and acceptance by the Government inspection, all drawings and specifications will be returned to the contractor.

E.7 Inspection Equipment.

E.7.1 The contractor shall supply and maintain all inspection and test equipment necessary to assure that the end item and end item components conform to contract requirements, except where specific relief from this requirement is provided for in this contract. The contractor's inspection and test equipment calibration system shall meet the requirements of the contractor's Quality Program.

E.7.2 All necessary inspection and test equipment, regardless of ownership, shall be made available to the Government for Government end item or component inspection upon request. In addition, the contractor shall provide all test support equipment (i.e., repair/spare parts, maintenance/cleaning supplies, etc.) and technical assistance necessary to conduct the Government Inspection and Acceptance Test on all units through the life of the contract. Upon completion of the inspection or test by the Government, the contractor's equipment will be returned to the contractor.

E.8 Failure Analysis and Corrective Action Reports (FACAR) for Test Incident Reports (TIR).

During testing, the Government test site representatives will provide the contractor a copy of all TIRs. The contractor shall furnish a FACAR for each TIR within the time limits listed below.

INCIDENT CLASSIFICATION	FACAR SUBMITTED WITHIN
Critical	2 working days
Major	10 calendar days
Minor	30 calendar days
Informational	30 calendar days, only if requested by Government

The FACAR shall contain an analysis of the test incident and the corrective action taken to prevent recurrence of the incident. The contractor shall provide the effective date and serial number of system(s) and components(s) reflecting the change of such corrective action. The contractor shall address Reliability and Maintainability requirements as applicable. FACARs shall be prepared and submitted in accordance with:
CDRL A017

E.9 UNIT STORAGE /SHIPMENT PRIOR TO FAT

E.9.1 The Government may elect to issue delivery orders that have units delivered prior to First Article Approval. Authorization has been granted under this contract for the contractor to receive progress payments against other than the FAT units. Additionally, the contract requires that the contractor retrofit any units ordered prior to FAT approval, excluding the test units, to the approved configuration.

E.9.2 If the Government elects not to ship production units prior to FAT approval the contractor shall store such units at their facility at no additional cost to the Government until 30 days following notification to the PCO and the ACO that the contractor has upgraded the units to the current configuration including any issues that may have arisen out of FAT.

*** END OF NARRATIVE E 001 ***