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	PIIN/SIIN DAAE07-02-D-T019	MOD/AMD P00013
Name of Offeror or Contractor: MECHANICAL EQUIPMENT COMPANY, INC.		

SECTION A - SUPPLEMENTAL INFORMATION

*** DELETED NARRATIVE A 002 ***

1. Modification P00013 to contract DAAE07-02-D-T019 is a bi-lateral modification.
2. The purpose of this modification is:
 - a. Increase the unit price of the Lightweight Water Purifier (LWP) to reflect the increased material cost changes for safety improvements to the LWP's ramp.
 - b. Change paragraph C.23.4 pertaining to Instructor and Key Personnel (I&KP) training as reflected below and on the continuation sheets.
3. The unit prices of the LWP are increased as reflected below as well as on the attached continuation sheets.
 - a. The unit price of CLIN 0001AA is increased by \$76.50 from \$295,441 to \$295,517.50 and the total amount is increased by \$535.50 from \$2,068,087 to \$2,068,622.50.
 - b. The unit price of CLIN 0001AB is increased by \$76.50 from \$157,308 to \$157,384.50 and the total amount is increased by \$382.50 from \$786,540 to \$786,922.50.
 - c. The unit price of CLIN 001AC is increased by \$76.50 from \$157,308 to \$157,384.50 and the total amount is increased by \$918.00 from \$1,887,696 to \$1,888,614.00.
 - d. The unit price of CLIN 0002AA is increased by \$76.50 from \$123,870 to \$123,946.50 and the total amount is increased by \$6,655.50 from \$10,776,690 to \$10,783,345.50.
 - e. The unit price of CLIN 0003 is increased by \$81.82 from \$129,480 to \$129,561.82 and the total amount is increased by \$6,136.50 from \$9,711,000 to \$9,717,136.50.
 - f. The unit price of CLIN 0004 is increased by \$87.31 from \$136,845 to \$136,932.31 and the total amount is increased by \$4,365.50 from \$6,842,250 to \$6,846,615.50.
 - g. The unit price of CLIN 0005 is increased by \$92.29 from \$142,652 to \$142,744.29 and the total amount is increased by \$4,614.50 from \$7,132,600 to \$7,137,214.50.
4. Paragraph B.4 is changed to reflect the increased material cost for improvements to the ramp as follows:

The per unit prices for the Lightweight Water Purifier (LWP) system (excluding the FAT units) follow: The prices are by ordering period and are based on short term packaging requirements as set forth in Section C.

ORDERING PERIOD 1 \$157,384.50
 ORDERING PERIOD 2 \$123,946.50
 ORDERING PERIOD 3 \$129,561.82
 ORDERING PERIOD 4 \$136,932.31
 ORDERING PERIOD 5 \$142,744.29
5. Paragraphs C.23.4 and C.23.4.1 for Instructor and Key Personnel Training are revised as follows:

FROM:

C.23.4 Instructor and Key Personnel Training. The Contractor shall provide I&KP training and shall utilize draft 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 30 students each. The Government reserves the right to have additional participants present during conduct of course. Training will be conducted at Ft. Lee, VA beginning 14 Jun 2004. 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 received from attendees shall be incorporated into the courseware to yield a final product. If the Distance Learning Package option is exercised (see H.45), 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.

C.23.4.1 The contractor shall deliver the associated support equipment to include Government approved technical manuals, all lesson

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materials, training literature, training aids, special tools & test equipment and all tools necessary to disassemble and assemble, to the training sites not later than 7 days prior to the training.

TO:

C.23.4 (Changed by Modification P00013) Instructor and Key Personnel Training. The Contractor shall provide I&KP training and shall utilize draft courseware. A complete set of training materials, to include both instructor and student materials, shall be provided to each student. 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 30 students each. The Government reserves the right to have additional participants present during conduct of course. Each course shall not exceed 40 hours. These courses shall be targeted to instructor and key personnel who will operate and maintain the system. Within 15 days of completion of all I&KP training, the Government will provide comments to the contractor that shall be incorporated into the draft courseware to yield the final courseware. If the Distance Learning Package option is exercised (see H.45), 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.

C.23.4.1 (Changed by Modification P00013) Training will be conducted at Selfridge Air National Guard Base (SANGB), MI. Operator training will begin on 18 October 2004. Maintainer training will begin on 25 October 2004. The contractor shall ship two (2) each complete LWP's that have been refurbished. Ship units to the United States Army's Tank-automotive and Armaments Command (TACOM), ATTN: Petroleum and Water Business Area/Kevin Oehus, 6501 East Eleven Mile Road, Bldg 210, Warren, MI 48397-5000. Units will arrive no later than 18 October 2004. The Government will be responsible for transporting the two units from TACOM to the training site at SANGB.

C.23.4.2 (Changed by modification P00013) The Contractor shall deliver the associated support equipment to include Government approved technical manuals, all lesson materials, training literature, training aids, special tools & test equipment, and all tools necessary to disassemble and assemble, to the training site no later than 18 October 2004.

6. All other terms and conditions, unless specifically changed by this modification P00013 issued under contract DAAE07-02-D-T019, remain unchanged and in full force and effect.

*** END OF NARRATIVE A 011 ***

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Name of Offeror or Contractor: MECHANICAL EQUIPMENT COMPANY, INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AA	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p>(Deleted narrative A002)</p> <p><u>FIRST ARTICLE SAMPLES</u></p> <p>NOUN: LIGHTWEIGHT WATER PURIFIER FAT UNITS (1-LD, 3-PVT, 3-IOT&E)</p> <p>(End of narrative B001)</p> <p>(Deleted narrative B002)</p> <p><u>Packaging and Marking</u></p> <p>Preservation, Packaging, Packing, and Marking shall be IAW Section C and Section D of this contract. HAZMAT Components of End Items (COEI) are to be packed and shipped separately from the LWP itself (IAW paragraph C.15.3.1 in the scope of work), but are to be included as part of the system price and not separately priced.</p> <p>(End of narrative D001)</p> <p>(Deleted narrative D002)</p> <p><u>Inspection and Acceptance</u></p> <p>INSPECTION: Origin ACCEPTANCE: Origin Government Approval/Disapproval Days: 630</p> <p>The delivery schedule for this unit shall be as shown in the FAT clause set forth in Section E.</p> <p>(End of narrative E001)</p>	EST 7	EA	\$ 295,517.51000	\$ 2,068,622.50 ESTIMATED

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AB	<p><u>PRODUCTION QUANTITY-ORDERING PERIOD ONE</u></p> <p><u>Packaging and Marking</u></p> <p>Preservation, Packaging, Packing, and Marking shall be IAW Section C and Section D of the contract.</p> <p>HAZMAT Components of End Item (COEI) are to be packed and shipped separately from the LWP itself (IAW paragraph C.15.3.1 in the scope of work), but are to be included as part of the system price and not separately priced.</p> <p>(End of narrative D001)</p> <p>(Deleted narrative D002)</p> <p><u>Inspection and Acceptance</u></p> <p>INSPECTION: Origin ACCEPTANCE: Origin</p> <p>The delivery schedule for units shall be as shown in section F.</p> <p>(End of narrative E001)</p>	EST 5	EA	\$ 157,384.50000	\$ 786,922.50 ESTIMATED

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AC	<p data-bbox="264 331 703 359"><u>PRODUCTION QUANTITY-ORDERING PERIOD ONE</u></p> <p data-bbox="264 491 703 518">NOUN: LIGHTWEIGHT WATER PURIFIER (LWP)</p> <p data-bbox="337 543 824 571">LOW RATE INITIAL PRODUCTION (LRIP) QUANTITY</p> <p data-bbox="443 596 703 623">(End of narrative B001)</p> <p data-bbox="435 674 703 701">(Deleted narrative B002)</p> <p data-bbox="264 783 505 810"><u>Packaging and Marking</u></p> <p data-bbox="264 835 781 911">Preservation, Packaging, Packing, and Marking shall be IAW Section C and Section D of the contract.</p> <p data-bbox="264 940 792 1073">HAZMAT Components of End Item (COEI) are to be packed and shipped separately from the LWP itself (IAW paragraph C.15.3.1 in the scope of work), but are to be included as part of the system price and not separately priced.</p> <p data-bbox="443 1098 703 1125">(End of narrative D001)</p> <p data-bbox="435 1176 703 1203">(Deleted narrative D002)</p> <p data-bbox="264 1285 548 1312"><u>Inspection and Acceptance</u></p> <p data-bbox="264 1312 727 1339">INSPECTION: Origin ACCEPTANCE: Origin</p> <p data-bbox="264 1390 857 1440">The delivery schedule for units shall be as shown in section F.</p> <p data-bbox="443 1470 703 1497">(End of narrative E001)</p> <p data-bbox="435 1547 703 1575">(Deleted narrative E002)</p>	EST 12	EA	\$ 157,384.50000	\$ 1,888,614.00 ESTIMATED

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002AA	<p data-bbox="264 331 703 352"><u>PRODUCTION QUANTITY-ORDERING PERIOD TWO</u></p> <p data-bbox="264 491 634 512">NOUN: LIGHTWEIGHT WATER PURIFIER</p> <p data-bbox="443 569 699 590">(End of narrative B001)</p> <p data-bbox="264 674 505 695"><u>Packaging and Marking</u></p> <p data-bbox="264 730 781 800">Preservation, Packaging, Packing, and Marking shall be IAW Section C and Section D of the contract.</p> <p data-bbox="264 835 792 961">HAZMAT Components of End Item (COEI) are to be packed and shipped separately from the LWP itself (IAW paragraph C.15.3.1 in the scope of work), but are to be included as part of the system price and not separately priced.</p> <p data-bbox="443 993 699 1014">(End of narrative D001)</p> <p data-bbox="435 1073 699 1094">(Deleted narrative D002)</p> <p data-bbox="264 1178 548 1199"><u>Inspection and Acceptance</u></p> <p data-bbox="264 1205 727 1226">INSPECTION: Origin ACCEPTANCE: Origin</p> <p data-bbox="264 1283 857 1331">The delivery schedule for units shall be as shown in section F.</p> <p data-bbox="443 1367 699 1388">(End of narrative E001)</p> <p data-bbox="435 1444 699 1465">(Deleted narrative E002)</p>	EST 87	EA	\$ 123,946.50000	\$ 10,783,345.50 ESTIMATED

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	<p><u>PRODUCTION QUANTITY-ORDERING PERIOD THREE</u></p> <p>NSN: 4610-01-495-0046 SECURITY CLASS: Unclassified</p> <p>NOUN: LIGHTWEIGHT WATER PURIFIER</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u></p> <p>Preservation, Packaging, Packing, and Marking shall be IAW Section C and Section D of the contract.</p> <p>HAZMAT Components of End Item (COEI) are to be packed and shipped separately from the LWP itself (IAW paragraph C.15.3.1 in the scope of work), but are to be included as part of the system price and not separately priced.</p> <p>(End of narrative D001)</p> <p>(Deleted narrative D002)</p> <p><u>Inspection and Acceptance</u></p> <p>INSPECTION: Origin ACCEPTANCE: Origin</p> <p>The delivery schedule for units shall be as shown in section F.</p> <p>(End of narrative E001)</p> <p>(Deleted narrative E002)</p>	EST 75	EA	\$ 129,561.82000	\$ 9,717,136.50 ESTIMATED

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	<p><u>PRODUCTION QUANTITY-ORDERING PERIOD FOUR</u></p> <p>NSN: 4610-01-495-0046 SECURITY CLASS: Unclassified</p> <p>NOUN: LIGHTWEIGHT WATER PURIFIER</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u></p> <p>Preservation, Packaging, Packing, and Marking shall be IAW Section C and Section D of the contract.</p> <p>HAZMAT Components of End Item (COEI) are to be packed and shipped separately from the LWP itself (IAW paragraph C.15.3.1 in the scope of work), but are to be included as part of the system price and not separately priced.</p> <p>(End of narrative D001)</p> <p>(Deleted narrative D002)</p> <p><u>Inspection and Acceptance</u></p> <p>INSPECTION: Origin ACCEPTANCE: Origin</p> <p>The delivery schedule for units shall be as shown in section F.</p> <p>(End of narrative E001)</p> <p>(Deleted narrative E002)</p>	EST 50	EA	\$ 136,932.31000	\$ 6,846,615.50 ESTIMATED

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005	<p><u>PRODUCTION QUANTITY-ORDERING PERIOD FIVE</u></p> <p>NSN: 4610-01-495-0046 SECURITY CLASS: Unclassified</p> <p>NOUN: LIGHTWEIGHT WATER PURIFIER</p> <p>(End of narrative B001)</p> <p><u>Packaging and Marking</u></p> <p>Preservation, Packaging, Packing, and Marking shall be IAW Section C and Section D of the contract.</p> <p>HAZMAT Components of End Item (COEI) are to be packed and shipped separately from the LWP itself (IAW paragraph C.15.3.1 in the scope of work), but are to be included as part of the system price and not separately priced.</p> <p>(End of narrative D001)</p> <p>(Deleted narrative D002)</p> <p><u>Inspection and Acceptance</u></p> <p>INSPECTION: Origin ACCEPTANCE: Origin</p> <p>The delivery schedule for units shall be as shown in section F.</p> <p>(End of narrative E001)</p> <p>(Deleted narrative E002)</p>	EST 50	EA	\$ 142,744.29000	\$ 7,137,214.50 ESTIMATED

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B.1 RESERVED

B.2 INSTALLATION OF GOVERNMENT FURNISHED MATERIEL AND/OR PROPERTY

The unit price of any LWP system acquired under this contract includes all charges for initial installation or packaging of government furnished items, material, and property.

B.3 CONTRACT DATA REQUIREMENTS PRICES

The cost of the contract data requirements are priced as shown in CLIN 0006. The CDRLs designed as Not Separately Priced "NSP" costs are included in LWP unit prices.

B.4 LIGHTWEIGHT WATER PURIFIER SYSTEM PRICES

The per unit prices for the Lightweight Water Purifier (LWP) system [excluding the FAT units] follow. The prices are by ordering period, are based on short term packaging requirements as set forth in Section C.

ORDERING PERIOD 1	\$157,384.50
ORDERING PERIOD 2	\$123,946.50
ORDERING PERIOD 3	\$129,561.82
ORDERING PERIOD 4	\$136,932.31
ORDERING PERIOD 5	\$142,744.29

B.5 STORAGE and PACKAGING REQUIREMENT OPTION PRICES

B.5.1 Storage Requirements: The parties to this contract negotiated the LWP units with the understanding the units should be delivered with short term storage packaging requirements. If the Government exercises its right under the option provisions at H.41 and H.42 to acquire either long term storage packaging or controlled humidity storage packaging, the parties agree that the Government may do so at no additional cost to the LWP per unit amounts. Modules shall be packaged in accordance with Section C.

B.5.2 PACKAGING OF HAZMAT COEI VIA INTERNATIONAL AIR TRANSPORT STORAGE REQUIREMENTS. If the Government exercises its right under the option provisions at H.43 to acquire packaging for shipment of the hazardous material (HAZMAT) Components of End Items (COEI) via International Air Transport requirements, the following per unit price adjustment (excluding FAT units) by ordering period shall apply.

ORDERING PERIOD 1	\$0
ORDERING PERIOD 2	\$0
ORDERING PERIOD 3	\$0
ORDERING PERIOD 4	\$0
ORDERING PERIOD 5	\$0

B.6 NEW EQUIPMENT TRAINING (NET) OPTION PRICES

B.6.1. The Government has the right to acquire up to 286 classes for both CONUS and OCONUS locations at the prices set forth below under the option provisions at H.44. It is estimated that 10 OCONUS classes per year will be required.

Total Option Classes:	286
Classes option to date:	<u>0</u>
Classes available for option:	286

B.6.2. Following are the per class prices for New Equipment Training (NET) by ordering period. The prices below do not include transportation and per diem expenses for the instructor. These costs will be reimbursed on a cost, no fee basis.

CONUS

\$12,699 per class, if option exercised during the second year option period.
\$13,334 per class, if option exercised during the third year option period.
\$14,001 per class, if option exercised during the fourth year option period.
\$14,701 per class, if option exercised during the fifth year option period.

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OCONUS

\$15,883 per class, if option exercised during the second year option period.
\$16,677 per class, if option exercised during the third year option period.
\$17,511 per class, if option exercised during the fourth year option period.
\$18,387 per class, if option exercised during the fifth year option period.

B.7 DISTANCE LEARNING PACKAGE OPTION PRICES

B.7.1 The Government has the right to acquire a Distance Learning Package at the price of \$37,288 under the option provisions at H.45 and in accordance with C.25.

B.8. FIELD SERVICE REPRESENTATIVE FOR CONTINENTAL UNITED STATES (CONUS) AND OUTSIDE CONTINENTAL UNITED STATES (OCONUS) LOCATIONS OPTION PRICES

The following are the firm fixed price per man-day rates to support total package fielding and/or handoff for Field Service Representative for CONUS and OCONUS locations by ordering period. The prices below do not include transportation and per diem expenses. The Government shall have the right to acquire man-days of support as required if the Government exercises its right under the option provision at H.47. Transportation and per diem expenses will be paid on a cost reimbursable basis (cost, no fee).

Total option per man-days: 650
Man-days option to date: 0
Man-Days available for option: 650

CONUS LOCATIONS:

\$869 per man-day, if option exercised during the second year option period.
\$913 per man-day, if option exercised during the third year option period.
\$958 per man-day, if option exercised during the fourth year option period.
\$1,006 per man-day, if option exercised during the fifth year option period.

OCONUS LOCATIONS:

\$949 per man-day, if option exercised during the second year option period.
\$996 per man-day, if option exercised during the third year option period.
\$1,046 per man-day, if option exercised during the fourth year option period.
\$1,098 per man-day, if option exercised during the fifth year option period.

B.9 ENVIRONMENTAL, HEALTH AND SAFETY REQUIREMENTS

B.9.1 The Contract price(s) include costs for Contractor compliance with all applicable Environmental, Health and Safety requirements. These requirements include all Federal, State, and Local Environmental, Health, and Safety laws, rules, regulations, guidelines, standards, limitations, conditions, orders, controls, prohibitions, and other requirements. These requirements are hereinafter referred to as the aforementioned list. Requirements that affect the performance of this contract, as of award date, are in effect or scheduled to become effective during the contract term. The contract price does not include any amount for future additional or changed requirements which are not currently established and which may become effective during the term of the contract.

B.9.2 In the event any of the foregoing Contractor compliance requirements are changed (e.g. altered, rescinded, postponed, replaced, or supplemented by new or additional requirements) subsequent to the contract award date, and such changes cause an increase or decrease in the cost of, or time required to perform this contract, such change in cost or time requirement shall constitute the basis for an adjustment of contract price or delivery schedule, as the case may be, provided the cost of compliance with such changed requirements are allowable and allocable to this contract under the FAR.

B.10 APPLICABILITY OF FEDERAL RETAILERS EXCISE TAX

Federal Retailers Excise Tax (FRET) does not apply to the items under this contract. FRET is therefore not to be included in the prices set forth in this Section B.

*** END OF NARRATIVE B 001 ***

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SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 LIGHTWEIGHT WATER PURIFIER

The Lightweight Water Purifier (LWP) is a highly mobile system capable of purifying, storing, and dispensing potable water from fresh, brackish, sea, and nuclear, biological, and chemical (NBC) contaminated water. The LWP system shall provide quality drinking water to meet requirements for small military units and detachments, Special Operations Forces (SOF), and temporary medical facilities during a range of contingency operations. The LWP is conducive to missions such as early entry, long-range surveillance, nation building, disaster relief and Small Scale Contingency Operations in areas remote from normal logistical support assets. Such units do not possess bulk water purification capabilities to support such missions.

C.2 SYSTEM DESCRIPTION

C.2.1 (Changed by Modification 10)The Contractor shall furnish all supplies and services that are necessary to accomplish this contract for the items set forth in Section B, or elsewhere in the contract. As listed in Section B all items shall be manufactured in accordance with the following Purchase Descriptions: "LIGHTWEIGHT WATER PURIFIER" ATPD 2220, Revision G dated 30 December 2003, hereinafter referred to as PD 2220, "CONTAINER, CARGO TRICON (WITHOUT CABINETS DRAWERS OR SHELVES)" ATPD 2298, dated 17 Jul 2000, hereinafter referred to as PD 2298, "TANK, FABRIC, COLLAPSIBLE, SELF-SUPPORTING OPEN TOP, WATER STORAGE, 3000 GALLONS" ATPD 53048, dated 18 May 1998, hereinafter referred to as ATPD 53048. (See Section J, Attachments 1, 2, and 3). If there is a discrepancy between the LWP PD and either the TRICON or Tank PD, the requirements of the LWP PD shall prevail.

C.2.1.1 Changes to ATPD 2298 (CONTAINER, CARGO TRICON)follow:

C.2.1.1.1 Standard custom seals are acceptable as security tags.

C.2.1.1.2 NBC testing will not be required by the contractor.

C.2.1.1.3 Add the following sentence to section 3.1.2 "The box will be large enough to accommodate "letter-size" documents and have the capacity to hold documentation not less than 1 inch thickness".

C.2.1.1.4 Modify the following in section 3.5.3 of ATPD 2298, Exterior Markings: Amend the last sentence to read, "The contractor shall stencil in one (1) inch letters on the exterior of the left hand door panel in the area below the CSC data plate "w/CARC" and the month and year the container was painted, using two digit numeric format" (NOTE: the W/CARC signifies CARC paint).

C.2.1.1.5 Add the following sentence to Section 3.5.6. Consolidated data plate, "In the "ownership" block, cite "Property of U.S. Army".

C.2.2 The Contractor shall deliver the LWP in a contractor provided TRICON. The TRICON shall have a minimum of three (3) internal braces.

C.2.3 The Contractor shall deliver the LWP with Basic Issue Item (BII) overpacked.

C.2.4 The Contractor shall deliver each LWP with an integrated Government furnished 3kW Tactical Quiet Generator (TQG).

C.2.5 The Contractor shall overpack one hard copy of the Government furnished technical manual(s) with delivered system.

C.2.6 Hazardous chemicals shall be packaged and delivered separately from the TRICON to prevent the TRICON from being considered hazardous materiel for transport. All hazardous materials shipping shall comply with the requirements of C.15.2.

C.2.7 Contractor will invoice for both the Hazardous Materiel (HAZMAT) Components of End Items (COEI) and the LWP on the same DD Form 250.

C.2.8 The parties to this contract acknowledge that the per unit prices were based on the LWP being acquired and tested without material handling equipment identified in paragraph 3.1.4 of the LWP PD. It is the intent of the Government to modify this contract at a later date to include the material handling material with the LWP. An equitable adjustment to the unit price will be negotiated at that time.

C.3 LWP CONTRACT UNIQUE DEFINITIONS

For this contract:

(a) The first production unit and the first unit produced are one and the same.

(b) (Changed by Modification P00010) First Article Test shall consist of (1) Logistics Demonstration, (2)Production Verification Testing, and (3) Limited User Test.

(c) The ordering period, program year, option period, and contract year are one and the same.

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(d) Days refer to calendar days, unless specifically stated as business days.

C.4 INTEGRATED PRODUCT TEAM

C.4.1 The Contractor and the Government shall use an Integrated Product Team (IPT) approach as the primary management vehicle for monitoring the status of the work described in this contract and its associated delivery orders. The IPT will be jointly chaired by the Contractor and the Government. The IPT will provide a means for coordinating and monitoring schedules, integrated logistics, and technical performance. The Contractor and the Government will use teleconferencing, Internet Home Pages, and shared common databases to facilitate communication. The IPT members will include personnel designated by the Contractor, the PM, the Contracting Officer, the cognizant Defense Contract Management Office, the cognizant Defense Contract Audit Agency (DCAA), and Government support contractors.

C.4.2 The Government may propose to enter into a voluntary Partnering Arrangement with the Contractor. Partnering is a commitment between the Government and the Contractor to improve communications and avoid disputes. It is accomplished through an informal process with the primary goal of providing the American Soldier with quality supplies and services, on time, and at a reasonable price. Should the Contractor and the Government agree to voluntarily enter into a partnering relationship, we will follow the guidance in Army Material Command Guide entitled Partnering for Success. This guide is located on the Internet at:
<http://acqnet.sarda.army.mil/acqinfo/bluprint/him>.

C.5 DATA SUBMISSION REQUIREMENTS

C.5.1 The Contractor shall deliver all data under this contract in English, electronically (unless otherwise specified), via the Web sites, electronic mail in MS Office (95 or higher) and Windows compatible format, Compact Disc, or diskette. The required information shall be furnished to the Government in accordance with the requirement of Exhibit A - the Contract Data Requirements List (CDRL). The Government will provide electronic mail addresses during the IPT meeting.

C.5.2 In addition to the addressees listed in block 14 of the Contract Data Requirement List, a cover letter for each data deliverable 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) Form 1644, or as described elsewhere in the contract. Tailored DID's referenced in the contract are located in Section J as Attachments. Should the Contractor need to review DIDs that are not tailored in the contract or delivery orders, refer to the database at <http://astimage.daps.dla.mil/online/>, to obtain documents without a cost, click "Quick Search".

C.6 CONFERENCES, MEETINGS, AND REVIEWS REQUIREMENTS

C.6.1 The Contractor shall plan, host, attend, coordinate, support, and conduct meetings, formal reviews, conferences, and audits, hereafter mutually referred to as "meetings" required by this contract. All meetings referenced in the contract shall be held at the Contractor's facility. Meetings shall be included in the program schedule and may be held concurrently, provided the Government has approved concurrent meetings in advance. The Government reserves the right to cancel any meeting or to require a meeting be scheduled at critical points during the period of performance of this contract.

C.6.2 (CDRL A001) The Contractor in conjunction with the Government shall prepare meeting agendas and presentation materials. During meetings, action items shall be documented, responsibility assigned, and target completion dates established prior to the adjournment of the meetings. The contractor shall be responsible for taking and distributing meeting minutes. The minutes shall include a summary of the meeting, all action items and the corresponding responsible parties and target completion data. The minutes shall be formatted and delivered in accordance with:

Data Item Description DI-ADMN-81250A, Meeting Minutes and CDRL A001

C.6.3 The Contract requires the following meetings:

C.6.3.1 Integrated Product Team Meeting. Within thirty (30) days after award of the initial delivery order the Government and the Contractor will hold an Integrated Product Team (IPT) Meeting. The meeting shall be held at the Contractor's facility. The meeting will last two days and shall include approximately twenty-five (25) Government personnel. The purpose of the IPT Meeting is to review, as a minimum: contract terms, contract conditions, contract requirements, data items, required specifications, test requirements, and logistic requirements. The Contractor shall demonstrate to the Government at the meeting their management procedures, provide progress assessments, review technical status and provide a schedule for meeting near term and long term contract requirements, program implementation processes, and any other item the contractor or the Government feels is important to the program. The Contractor shall also introduce key Contractor personnel and functional managers.

C.6.3.2 Program Status Reviews or Meetings. Joint Government and Contractor status reviews shall be held quarterly for the first three (3) years of the program following award of the initial delivery order. The initial program status review shall be held ninety (90) days after the IPT Meeting. The program review shall focus on but not be limited to: (1) Contractor progress, (2) management, (3) technical support services, (3) logistic support, (4) system engineering, (5) administration, (6) contracting, (7) contract compliance, (8) program status, (9) funding issues, (10) problem identification and resolution, (11) deliveries, and (12) major issues or concerns.

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Current status as well as actual versus projected performance of each area will be addressed during the review. The Contractor shall prepare presentation materials that provide an overview of all discussion items.

C.6.3.3 Provisioning Guidance Conference. A Provisioning Guidance Conference shall be held as part of the IPT Meeting. The Contractor shall provide a provisioning performance schedule at the conference. The schedule shall provide an estimate of the number of items to be provisioned and the number of provisioning conferences that will be required.

C.6.3.4 Provisioning Conferences. The Contractor shall host Provisioning Conferences at the Contractor's facility, or at a location agreed to by both parties. The initial provisioning conference will be held approximately 120 days after contract award and every 90 days thereafter; until completion. Each conference will be a maximum of 5 working days with no more than 1500 items presented for review per conference, any deviations from these requirements will be made by the responsible Government Provisioning Representative. The conferences shall be based on the provisioning performance schedule. The Contractor shall furnish provisioning data and clarification of any provisioning issues at the conferences. The Contractor shall not be required to have a sample of the component/end item at the conference.

C.6.3.5 Logistics and Engineering Working Group Meetings. The initial Logistics and Engineering Working Group meetings shall be held concurrently with Program Status Reviews. Logistics and Engineering Working Group meetings shall include development and or improvements of technical manuals, training, provisioning, drawings, and other logistics or engineering issues that needed to be addressed. Additional working group meetings shall be convened as necessary.

C.6.3.6 Production Readiness Review. Production Readiness Reviews shall be performed to formally evaluate the Contractor's production readiness, to identify existing or projected manufacturing problems, and to identify areas of risk. The Contractor shall show that their system design has included those key production factors necessary to assure the system can be acquired on schedule. The Contractor shall demonstrate progress in the following areas:

- (a) attaining the program's production goals,
- (b) resolving manufacturing problems (or that a plan for their resolution acceptable to the Government has been developed), and
- (c) mitigating all production risks.

C.6.3.6.1 The initial Production Readiness Review shall be conducted at the Contractor's facility during the IPT meeting. At the Government's discretion, follow-on production program reviews may be held quarterly at the Contractor's facility.

C.6.3.6.2 The Production Readiness Review dates shall be proposed by the Contractor, with Government approval required. Once the dates have been approved they (dates) shall be incorporated into the program master schedule. The agenda for the reviews shall include, as applicable, at least the following considerations:

- (a) A Manufacturing Program Status to include the overall manufacturing system and detailed factors such as: manufacturing organization, responsibilities, facilities, equipment manufacturing methods, and production flow.
- (b) A status of all production effort for schedule consideration.
- (c) The identity of open production concerns which require additional direction or effort to minimize risk to the production program.
- (d) The status of production engineering efforts, tooling and test demonstrations, and proofing of new materials, processes, methods, special tools, and test equipment.
- (e) A status of the hazard list from the Environmental, Safety and Health Analysis.
- (f) The status of long lead items for production, if any.
- (g) The status of quality assurance and control measures.

C.7 CONFIGURATION MANAGEMENT REQUIREMENTS

C.7.1 The Contractor shall maintain a Configuration Management (CM) process for the control of all hardware and software configuration documentation, media, and parts representing or comprising the LWP. The principles contained in EIA-649 and MIL-HKDBK-61A may be used and are recommended for guidance. The Contractor's CM process, as a minimum, shall consist of configuration identification, configuration control, configuration status accounting, and configuration audits. The Contractor shall designate a CM representative to serve as a primary point of contact to the Government for all CM matters. The CM process shall be documented in the program management process which shall be made available for Government review. A Government CM plan will be provided to the Contractor at the IPT Meeting, for information regarding the configuration control board process, to include Engineering Change Proposal (ECP) disposition times, primary points of contact, and other relevant CM information.

C.7.1.1 (CDRL A002) Physical Configuration Audit. The functional baseline for the LWP is established as the Performance Specification (PD 2220). A Configuration Audit Summary Report (Physical) shall be performed to verify the LWP and its Configuration Identification (CI) are accurate, complete, and compatible, and to identify discrepancies between the hardware and the product drawings. The Physical Configuration Audit (PCA) shall be conducted by the Contractor at his facilities. The Government reserves the right to witness any portion of the audit. The PCA shall verify the drawings and reflect the "as-built, as-designed" configuration of all newly developed or modified portions of the system and that accurate form, fit, function and interface information is provided on control drawings for nondevelopmental/commercial off-the-shelf items; and confirm the drawings accurately represent the "as-built, as-designed" production configuration. The PCA shall be conducted incrementally, concurrent with fabrication and hardware assembly of a LWP unit, which includes all corrections resulting from Government testing. The Contractors plan that provides the system to be audited, facilities, personnel,

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documentation (see C.7.4), and other support as may be required, shall be available to the Government on request. The Contractor shall document the results of the PCA after each audit and shall correct all audit discrepancies documented in the Configuration Audit Reports. In the event the Government finds evidence the drawings and/or documents (see C.7.4 for drawing deliveries) do not adequately represent the equipment, production shall cease until all discrepancies are corrected and the Government approves the Configuration Audit Report. The Product Baseline will be established upon completion of the Government testing, PCA and resolution of audit discrepancies. The PCA shall be formatted and delivered in accordance with:

DID DI-CMAN-81022C, Configuration Audit Summary Report Physical and CDRL A002.

C.7.2 (Changed by Modification 10) Configuration Control. Prior to FAT, the Contractor shall electronically notify the Government of all changes that would be considered a Class I ECP. Government approval of these changes are not required. Following final FAT approval, the Contractor shall submit all ECPs, RFDs, and NORs to the Government IAW the requirements listed in C.7.2.1, C.7.2.2 and C.7.2.3. A price proposal shall be submitted with each configuration change request. The proposal shall include all deleted and added costs (such as material and labor) associated with the change if appropriate. The profit rate on the net amount shall be 14.13%. The Contractor shall implement configuration control methods and procedures, which maintain the integrity and traceability of the established product baseline. The production baseline configuration shall be established after the approval of the FAT (consisting of a Logistic Demonstration (LD), a Production Verification Test (PVT) and a Limited User Test (LUT). Changes to established production baseline shall only be made after Government approval of Engineering Change Proposals (ECP) and Request for Deviation (RFD). Sufficient supporting data to evaluate the proposed change, such as drawings, supplemental drawings, sketches, specifications, or manufacturer's data sheets, shall be submitted with ECP's and RFD's. Changes shall be identified to the affected assembly serial number, or if not part of an assembly, to the affected equipment serial number.

C.7.2.1 (CDRL A003) Engineering Change Proposal. Engineering Change Proposals (ECPs) shall be delivered in accordance with Attachment 4 - (See Section J, Attachment 4 - Data Delivery Description (DDD)-Engineering Change Proposal). All ECP's delivered to the Government shall be accompanied by a complete cost proposal. All Class I ECPs, as defined in the Data Delivery Description in Attachment 4, shall require government approval and contract adjustment prior to implementation. Class II ECPs, as defined in the Data Delivery Description in Attachment 4, do not require prior approval if there is no cost change, but the Contractor shall notify the Contracting Officer, by means of an ECP, not less than 60 days prior to implementing any configuration changes. If any ECP involves a cost change to the contract, the Contractor shall get approval from the Government prior to implementing a change. The Engineering Change Proposal shall be prepared in accordance with the DDD and delivered in accordance with CDRL A003 and DID:

DID DI-CMAN-80639C, Engineering Change Proposal (ECP) and CDRL A003

C.7.2.2 (CDRL A004) Request for Deviation. The Contractor shall submit Request for Deviation (RFD) from current approved configuration documentation IAW Attachment 5 - (See Section J, Attachment 5. Data Delivery Description (DDD)- Request For Deviation). 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 in accordance with C.7.2.1. RFDs shall be prepared in accordance with the DDD and delivered in accordance with CDRL A004 and DID:

DID DI-CMAN-80640C, Request for Deviation (RFD) and CDRL A004.

C.7.2.3 (CDRL A005) Notice of Revision. The Contractor shall prepare the Notice of Revision (NOR) concurrently with the Engineering Change Proposal (ECPs) when technical documentation requires changes following approval of an ECP. The NOR shall be prepared IAW Attachment 6 (See Section J, Attachment 6 -Data Delivery Description - Notice of Revision (NOR)). The Notice of Revision shall be prepared in accordance with the DDD and delivered in accordance with CDRL A005 and DID:

DID DI-CMAN-80642C, Notice of Revision (NOR) and CDRL A005

C.7.3 (CDRL A006) Configuration Status Accounting. The Contractor shall establish and maintain a Configuration Status Accounting (CSA) program, which represents the configuration of the LWP. The CSA system shall provide baseline documentation, delineate the status of changes to the baseline, record implementation of approved changes, and provide an audit trail for engineering changes, drawings and associated lists, software, and other related technical documentation. All approved changes, which have been installed in the LWP shall be recorded. CSA database shall be electronically transferred to the Government at completion of contract. CSAs shall be formatted and delivered in accordance with:

DID DI-CMAN-81253A Configuration Status Accounting and CDRL A006

C.7.3.1 Serialized Tracking. The Contractor shall record and provide to the Government the serialized configuration of the LWP modules. The following information shall be part of the Configuration Status Accounting (CSA) Information and made available for Government review during scheduled meetings. As the CSA is updated, so shall this information.

- (a) Contractor Serial Number
- (b) System Designation/Model Number
- (c) Contract Number
- (d) Contractor
- (e) Date of Manufacturing
- (f) Generator set serial number

C.7.4 (CDRL A007) Product Drawings. The Contractor shall develop product drawings and associated lists, which reflect the as built, as tested configuration of the LWP. The drawings shall be used for the manufacture, assembly and configuration management of the

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materials, parts, subassemblies and assemblies of the equipment covered under this contract. The drawings and associated lists shall provide the information necessary to enable the procurement or manufacture of an interchangeable item duplicating the physical and performance characteristics of the original part or assembly without additional design effort on the part of the Government. Product Drawings shall be formatted and delivered in accordance with Attachment 18, Option Selection Worksheet, Product Drawings and Associated Lists and DID:

DID DI-DRPR-81000A, Product Drawings and CDRL A007

C.7.4.1 Drawing Numbers. The Contractor shall use Government furnished drawing numbers on all product drawings. The Contractor shall obtain the Government drawing numbers from the Contracting Officer.

C.7.4.2 Product Drawings Submittal. All new drawings and drawing revisions shall be delivered as electronic data in accordance with the requirements listed below.

C.7.4.2.1 Delivery Format of Engineering Drawings.

C.7.4.2.1.1 Draft drawing submittals and the final PCA drawings shall be submitted in AutoCAD 2000 DWG or hardcopy format (as specified). The final submittals of engineering drawings shall be delivered in the following format:

(a) Native 2-D or 3-D solid CAD model, AutoCAD 2000 or higher, DWG or format

(b) Joint Engineering Data Management Information and Control System (JEDMICS) C4 raster image. (See Section J, Attachment 7 for a list of commercial products that support JEDMICS C4 format or contact the EDI Office at (586) 574-5305 for assistance.

C.7.4.2.1.2 The Contractor shall contact the Government to deliver the actual files for the File Type Number and other technical and interface data.

C.7.4.2.1.3 Larger drawings, (J-K sizes) shall not have multiple plot files or frames.

C.7.4.2.2 Indexing Information. All files shall have proper indexing information. A Data File Index Structure (DLF) ASCII file shall accompany a set of engineering data files. The DLF ASCII file shall be formatted so that each record goes on a separate line and bars separate fields. See Section J, Attachment 8 for the JEDMICS Data File Index Structure (DFIS) spreadsheet describing the fields (with accompanying notes), together with a sample of a DLF file. The DLF file can be created using IndexR software available on the Web at <http://jtshelp.redstone.army.mil/>. The contractor may contact the TACOM EDI Office at (586) 574-5305 with questions related to file types, index extensions, and similar matters.

C.7.4.2.3 Delivery Media Requirements. Electronic data can be delivered on CD-ROMs (ISO 9660) or through FTP (File Transfer Protocol). Because the Government wishes to take advantage of the latest digital media technology, the contractor is asked to coordinate its final media decisions with the Contracting Officer prior to delivery.

C.7.4.2.4 Physical Media. The CDROM physical media shall be labeled with the following information:

(a) Contractors name/CAGE

(b) Contract Number

(c) System

(d) The appropriate CDROM number of the total, "CD 2 of 3"

(e) Range of document numbers included on the CD.

(f) Software version used for CAD, IGES, etc.

C.7.4.2.5 File Naming Convention. Files shall be delivered in batches. No batch shall include more than 50 files. Batches shall be sequentially named as b1, b2, b3, etc. Drawing files shall have names that correspond to the drawing number but not exceed 8 characters in length. File extensions can be obtained from TACOM EDI Office at (586) 574-5305.

C.7.4.2.6 Geometry Creation Guidelines for 2-D and 3-D Models. Guidelines are included at Section J, Attachment 9.

C.7.4.3 (A008) Functional Flow Diagrams/Ladder Logic Output. The PLC controls the sequence of operation, output to displays, and logic. This data is contained on an Erasable Programmable Read Only Memory (EPROM). The Allen Bradley Micrologix 1000 and RSLogix500, current version, ladder logic is required to make future changes such as Preplanned Product Improvements (P3) or engineering changes to the EPROM. The Contractor shall maintain configuration control of the data for the PLC throughout the duration of the contract. The logic code shall be delivered to the Government on appropriate electronic media, such as a CD-ROM in the format used for the LWP at the time of delivery. The ladder logic deliveries shall reflect the ladder logic programming used for the LWP at the time of delivery. Below is the most recent program information. The Ladder Logic Output shall be formatted and delivered in accordance with CDRL A008.

DI-GDRQ-81224(T), Ladder Logic Output/Functional Flow Diagrams and CDRL A008

SOFTWARE:

RSLogix500, current version

Allen Bradley part #9324RL0300ENED

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 18 of 28**

PIIN/SIIN DAAE07-02-D-T019

MOD/AMD P00013

Name of Offeror or Contractor: MECHANICAL EQUIPMENT COMPANY, INC.**HARDWARE:**

Processor - Allen Bradley Micrologix 1000

Allen Bradley Part # 1761-L32AWA

Total Memory - 1K EEPROM, 737 Instruction Words, 437 Data Words

Memory Used - 316 words, 437 data words (all data words are declared, but not all are used in program)

C.7.5 Telephone Numbers and Web Sites cited in section C.7.4 are provided solely for access to interface data and the clarification of technical matters.

C.8 LOGISTICS REQUIREMENTS

C.8.1 Integrated Logistic Support. The Contractor shall plan and conduct an Integrated Logistics Support (ILS) program, which shall govern the management of the ILS effort. The ILS process shall ensure the LWP, when fielded, will satisfy logistic elements and supportability criteria defined herein. The logistic program shall be discussed during program reviews.

C.8.2 Publications.

C.8.2.1 (CDRL A009) Technical Manuals. The Contractor shall develop operator, unit, direct support, and general support maintenance technical manual (TM 10-4610-310-14) and repair parts and special tools list (RPSTL) (TM 10-4610-310-24P), IAW MIL-STD-40051A, Department of Defense Standard Practice, Preparation of Digital Technical Information for Multi-Output Presentation of Technical Manuals, 15 Feb 2001. The manual shall be a system manual that covers all of the components of the LWP system. MIL-HDBK-1222, Department of Defense Handbook, Guide to the General Style and Format of US Army Work Package Technical Manuals, 15 Feb 2001 (for guidance only). The Technical Manuals shall be formatted and delivered in accordance with:

MIL-STD-40051A, Notice 1, Department of Defense Standard Practice, Preparation of Digital Technical Information for Multi-Output Presentation of Technical Manuals and CDRL A009

C.8.2.2 The Contractor shall produce an Acrobat electronic technical manual (ETM) file of the manual described above. Acrobat files are portable document files (PDF) format files. They shall contain bookmarks for the table of contents page, the first page of alphabetical index, the first page of each work package, chapter and section. Bookmark each reference in the manual. No linking is required beyond the bookmarks.

C.8.2.3 Validation. The Contractor shall validate the accuracy and usability of the technical manual to be delivered. The Contractor shall have and use documented Quality Assurance (QA) processes and inspections. The Government has the right to review validation records and witness 100% of initial validation.

C.8.2.4 Verification. Upon approval of a FAT report, a Draft Equipment Publication will be submitted by the Contractor, for Government review. Government reviews and verification may be done through sampling with a mix of desktop review and actual performance, but could include actual performance of all procedures and review of all pages, if deemed necessary by the Government. If there are indications that the contractor has performed incomplete or inadequate QA reviews, the Government may elect to perform additional reviews and return products for rework. The contractor shall provide technical/ engineering support, as required, to aid the Government in the performance of the verification effort and recording of the Government's comments. The contractor shall provide ten (10) sets of technical manuals and an ETM CD-ROM no less than 30 calendar days prior to the scheduled verification effort. Not all verification participants will need technical manuals. A maximum of 15 participants will attend. The Contractor shall incorporate all Government comments from specification compliance reviews, technical accuracy reviews, and Government verification reviews into the final submission of manuals. Unless otherwise advised by the Government's Contracting Officer, verification by the Government will be held at the contractors facility. The Government will provide target users; the Contractor shall provide all necessary resources to support the Government verification to include the following:

- (a) First Article Test (FAT) approved end item.
- (b) Adequate facilities and office space.
- (c) Mandatory replacement parts needed for assembly and disassembly tasks.
- (d) Paper copies of the manuals.
- (e) Expendable supplies and materials.

C.9 COPYRIGHT REQUIREMENT

The Contractor shall, if requested by the Government, identify copyrighted material, if any, and shall obtain the written approval of the copyright owner for the Government purpose rights in Copyright, (for Government reproduction purposes only) to any and all data/products produced under this SOW. The Contractor shall furnish appropriate release giving the Government permissions to reproduce and use copyrighted information. When the manual covers a vendors component or portion thereof and the vendors manual contains copyrighted material, the Contractor shall be responsible for obtaining copyright release from the vendor and providing the copyright release to the Government with the final manual.

C.10 PARTS DOCUMENTATION PROGRAM REQUIREMENTS

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C.10.1 Provisioning Program. The Contractor shall develop provisioning data for the LWP in accordance with MIL-PRF-49506 and guidelines of MIL-HDBK-502 and LMI data worksheet IAW Attachment 10 (See Section J, Attachment 10, LMI Requirements, MIL-PRF 49506). The provisioning data shall contain all data for the assemblies, sub-assemblies, spare parts and modules to include Components of the End Item (COEI), Basic Issue Items (BII), Additional Authorized (Items) List (AAL) and Special Tools and Test Equipment required to support the LWP. Engineering Data For Provisioning (EDFP) drawings are required to support each new item being provisioned, at no additional cost to the Government. The Government will provide the Provisioning Contract Control Number (PCCN), and Provisioning Control Code (PCC). Additional information or service unique codes will be provided not later than the Provisioning Guidance Conference.

C.10.1.1 (CDRL A00A) Provisioning Parts List. The Provisioning Parts List (PPL) shall contain the end item, component or assembly and all support items which can be disassembled, reassembled, or replaced, and which, when combined, constitute the end item. Component or assembly shall include items such as parts, materials, connecting cabling, piping, and fittings required for the operation and maintenance of the end item, component, or assembly. The PPL shall contain all test equipment, repair kits and repair parts sets required to maintain the end item, component, or assembly equipment unless excluded by the provisioning requirements. The PPL shall be used to determine the range and quantity of support items required to maintain the end item for an initial period of service. This includes all repairable Contractor Off-The-Shelf (COTS) should be Commercial items unless excluded by the provisioning requirements. It does not include a breakdown of Government furnished equipment. The PPL shall be formatted and delivered in accordance with:

DID DI-ALSS-81529, Logistics Management Information (LMI) Data Products (PPL) and CDRL A00A

C.10.1.1.1 The Contractor shall ensure that the submitted LMI Data Products are compatible with the Army Commodity Command Standard System (CCSS) Provisioning On Line System (POLs), ADSM-18-LEA-JBE-ZZZ-UM-06 (Users Manual). The data shall be capable of being loaded into Government PMR without modification to the data. The Contractor shall correct CCSS/POLs rejects within 15 days after receipt of government notification and resubmit electronically in ASCII text with accompanying 80/80 listing, or equivalent to 80 column card format.

C.10.1.1.2 The Contractor shall maintain and continuously update their data file with the Provisioning Technical Documentation (PTD) Reports. These reports will contain Part Number changes, Source Maintenance and Recoverability (SMR) Code changes, failure factor changes and additions and/or deletions that occur throughout the contract. The Contractor shall ensure that only those items which are repair parts or parts of the end items top down generation breakdown will be loaded in the PMR. All others will be rejected.

C.10.1.2 (CDRL A00B) Pre-Procurement Screening (PPS). Contractor shall conduct pre-procurement screening for all items to be provisioned. Drawings are not required for items accompanied by a copy of pre-procurement screening (i.e., Haystack, Parts master, DLIS) which indicates this item has previously been assigned a valid National Stock Number (NSN). Provisioning and Other Pre-procurement Screening Data are used to identify existing National Stock Numbers (NSNs) for an item, validate currency of an NSN, and aid in maximum use of known assets. The PPS shall be delivered in accordance with:

DID DI-ALSS-81529, Logistics Management Information (LMI) Data Products (PPS) and CDRL A00B

C.10.1.3 (CDRL A00C) Engineering Data for Provisioning. Engineering Data For Provisioning (EDFP) is technical data used to describe parts/equipment and consists of data such as specifications, standards, drawings, photographs, sketches and descriptions, and necessary assembly and general arrangement drawings, schematic drawings, schematic diagrams, wiring and cable diagrams necessary to indicate the physical characteristics, location, and/or function of the item. The EDFP shall be formatted and delivered IAW DID-ALSS-81529 as referenced below. At a minimum, EDFP must provide the following:

(a) Technical information of items for maintenance support considerations

(b) Item identification/descriptions necessary for:

- (1) Cataloging actions and assignment of a National Stock Number
- (2) Review for item entry control
- (3) Standardization to include standardization/interchangeability
- (4) Item management coding
- (5) Identification/procurement of initial spares
- (6) Preparation of allowance/issue lists

(c) The Contractor shall furnish EDFP in the following order of precedence:

- (1) Government or industry recognized specifications or standards
- (2) Engineering drawings
- (3) Commercial catalogs or catalog descriptions
- (4) Sketches or photographs with brief descriptions of dimensional, material, mechanical, or other descriptive characteristics.

DID DI-ALSS-81529, Logistics Management Information (LMI) Data Products (EDFP) and CDRL A00C

C.10.1.3.1 EDFP shall be marked in such a manner as to identify the proprietary rights (limited or unlimited). EDFP shall also be marked with the Provisioning Line Item Sequence Number (PLISN) and PCCN in the upper right hand corner. The Suggested Source(s) of Supply of original vendor shall be marked in the lower left corner to include: CAGE, Vendor Part Number, Name, and Complete Address. EDFP shall NOT be provided when the item is:

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(a) Identified as a government specification or standard which completely describes the item including its dimensional, mechanical, and electrical characteristic

(b) Previously cataloged/assigned an active National Stock Number with type 1 item identification

C.10.1.4 (CDRL A00D) Long Lead-Time Items List. The Contractor shall provide a Long Lead-Time Items List (LLTIL). The LLTIL shall contain those items which, because of their complexity of design, complicated manufacturing process or limited production capacity, may cause production or procurement cycles which would preclude timely and adequate delivery, if not ordered in advance of normal provisioning. The LLTIL shall be delivered in accordance with:

DID DI-ALSS-81529, Logistics Management Information Data Products (LLTIL) and CDRL A00D

C.10.1.5 (CDRL A00E) Recommended Spare Parts List. The Contractor shall provide a proposed spare parts list within 120 days of issuance of the initial delivery order. The list shall be in contractor format. It shall include a listing of spare items the Contractor feels will be required to support a LWP system for one year following its initial fielding. The recommend spare parts list shall be delivered in accordance with DID-ALSS-81529 referenced below. The list shall contain, as a minimum, the following information:

(a) Part

(b) Part Number

(c) NSN, if available

(d) Quantity required per year

(e) Estimate per unit cost (FOB point is origin, packaging per Section C)

(f) Vendor

DID DI-ALSS-81529, Logistics Management Information Data Products and CDRL A00E

C.10.1.6 (CDRL A00F) Design Change Notice (DCN). The Contractor shall submit a DCN for those design or part number changes which modify, add, delete or supersede any of the operating, maintenance or repair parts information that the Contractor provided previously under this contract. The DCNs shall be delivered in accordance with:

DID DI-ALSS-81529, Logistics Management Information (LMI) Data Products and CDRL A00F

C.10.1.7 (CDRL A00G) Maintenance Allocation Chart (MAC) (MIL-STD-40051-6A). The Contractor shall prepare an initial MAC covering all maintenance tasks by breaking down the LWP in functional group code sequence. The first functional group code shall be 00, the end item. The Contractor shall provide a preliminary MAC at the IPT meeting to be reviewed by the joint contractor-government working group. The MAC is a living document that forms the basis for provisioning and technical manual development and is, therefore, subject to change until its final approval concurrent with final approval of the technical manual. The MAC assigns all authorized maintenance functions and repair operations to be performed by the lowest maintenance level appropriate category, and delineates the tools and test equipment required to perform the operations. The MAC shall include all maintenance significant components, assemblies, subassemblies, and modules. If the maintenance for a repair part consists of replacement only, the part shall not be listed in the MAC, unless not listing the part would result in deletion of the group number; in this case, the part shall be listed in order to retain the functional group number. Parts requiring a test procedure prior to replacement shall also be listed in the MAC. The Government will provide the contractor information pertaining to the maintenance and fielding concepts.

DID DI-ALSS-81529, Maintenance Allocation Chart (MAC) and CDRL A00G

C.10.2 Support Equipment. The Contractor shall provide a listing of support equipment, which is defined as tools, test equipment, automatic test equipment and Built-in test/built-in test equipment (BIT/BITE). The requirement for support equipment shall be satisfied by items currently in the Army inventory to the maximum extent practical. Listings of support equipment resident in the Army inventory are available from the Government upon the contractors request. If the contractor has determined that support equipment is not required, then an explanation on how and for how long the system is going to be maintained is required. The information shall be delivered as part of the CDRL A00H, Special Equipment, Tools and Test Equipment List (TTEL) delivery.

C.10.2.1 (CDRL A00H) Special Equipment, Tools and Test Equipment List (TTEL). The Contractor shall prepare and deliver a TTEL listing of those peculiar support items including any Test Measurement and Diagnostic Equipment (TMDE) for the LWP that are not currently listed in the US Army Supply Catalogs (SCs) IAW Attachment 11 (See Section J, Attachment 11, Special Equipment Tools and Test Equipment List). Special tools are defined as tools not found in the Armys General Mechanics tool kit (NSN 5180-01-481-8389), Organizational Maintenance common # 1 tool kit (NSN 4910-00-754-0654), common #2 tool kit (NSN 4910-00-754-0650), and tool kit Supplement #1 (4910-00-754-0653), and US Army Supply Catalogs identified in DA PAM 25-30, Section 6. Listing of tools and test equipment resident in the Army inventory are available from the Government upon the contractors request. The Contractor shall identify all special tools required to service or repair the LWP assemblies and incorporate the special tools and test equipment lists into the maintenance manual. The TTEL with drawings shall be identified at the first Provisioning Conference. The Contractor shall verify that any special tools listed are indeed not currently in the Government Supply system. After government approval of the TTEL, the Contractor shall deliver the data concurrently with the MAC.

DID DI-ILSS-80868 (T), Special Equipment, Tools and Test Equipment List and CDRL A00H

C.11 SAFETY ENGINEERING AND HEALTH HAZARD REQUIREMENTS

C.11.1 Safety Engineering Principles. The Contractor shall follow good safety engineering practices in establishing the LWP design and

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operational procedures to include modifications. MIL-STD-882C can be used as a guide in determining whether safety-engineering objectives are met. As a minimum, the Contractor shall do the following:

C.11.1.1 Identify hazards associated with the system by conducting safety analyses and hazard evaluations. Analyses shall include both operational and maintenance aspects of the system.

C.11.1.2 Eliminate or reduce significant hazards by appropriate design or materiel selection. If hazards to personnel are not avoidable or eliminated, take steps to control or minimize those hazards.

C.11.2 (CDRL A00J) 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 (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 prepare the Safety Assessment Report in accordance with DI-SAFT-80102B. The Contractor shall identify and incorporate Health Hazards associated with the system into the SAR. MIL-STD-882C provides guidance in the preparation of the Safety Assessment Report and Health Hazard Assessment. 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 issue of concern for each sub-system 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. Include classification of severity and probability of occurrence. The Contractor will include when the hazards may be expected under normal or unusual operating or maintenance conditions. Examples of hazards to be included in the report are fire prevention issues, electrical issues, and noise.

DID DI-SAFT-80102B, Safety Assessment Report (SAR) and CDRL A00J

C.12 ENVIRONMENTAL REQUIREMENTS

C.12.1 The Contractor shall use non-hazardous material to the maximum extent practicable to manufacture the LWP, and will ensure that the material will support the intended use of the product. Recycled material should be used to the maximum extent possible provided that they do not impact the performance and safety of the final product.

C.12.2 The Contractor shall manage the efforts described by this contract to ensure that all aspects of the contract execution to include, 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.

C.12.3 The Contractor shall notify the PCO immediately, if the Government gives any direction that could result in permit violations.

C.13 POLLUTION PREVENTION REQUIREMENTS

C.13.1 Hazardous Material Management Program (HMMP). The Contractor shall maintain the Hazardous Materials Management Program (HMMP) developed during the Research and Development (R&D) contract, using National Aerospace Standard (NAS) 411, Hazardous Materials Management Program as a guide. The purpose of this program is to eliminate or minimize (where elimination is not possible) hazardous and environmentally unacceptable materials throughout the life cycle of the system to ensure protection of human health and the environment. The Contractor shall maintain a Hazardous Materials Management program which, at a minimum, shall identify and describe the organizational relationships and responsibilities for eliminating hazardous materials. The Hazardous Materials Management program shall also define the process used to identify the hazardous materials utilized in the manufacturing process, and establish prioritization criteria for ranking the relative risks of these hazardous materials. The HMMP and the Hazardous Materials Management Report submitted under the R&D contract shall be updated to reflect any materials or process changes during the performance of this contract, and any changes to the above mentioned plan and report shall be discussed during program reviews.

C.13.2 Contractor Support for Government Preparation of National Environmental Policy Act (NEPA) Documentation. The Contractor shall support Government preparation of all necessary documents and analyses to ensure compliance with NEPA, DOD 5000.2-R and Army Regulation 200-2. The support, on an as-needed basis, shall include, but not be limited to: submission of all Material Safety Data Sheets for all hazardous materials included in the system design or used during contemplated production processes, usage information for hazardous and environmentally unacceptable materials; preliminary descriptions of the proposed production process; production-related permitting requirements filed with the local environmental enforcement agency.

C.14 RESERVED**C.15 MILITARY PACKAGING DOCUMENTATION REQUIREMENTS:**

C.15.1 (CDRL A00L) Shipment and Storage (S&S) Instructions. The Contractor shall provide and update S&S instructions. When preparing the shipment and storage instructions the Contractor shall ensure those instructions are consistent with the transportability report required elsewhere in this contract. The S&S Instructions shall detail procedures required to prepare the LWP for storage after it has been in operation. The S&S instructions shall be formatted and delivered in accordance with:

DID DI-PACK-80121B, Shipping and Storage Instructions and CDRL A00L

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(a) Short term transport and Storage (180 days maximum in an unheated warehouse) for application when the LWP is in transport. Short term S&S processing instructions shall be sufficient to protect the items when they are intended for immediate use. When developing instructions the contractor shall consider GFM.

(b) Long term storage or OCONUS instructions. The Government will use these instructions to prepare a system for open storage for a period of up to 2 years or for shipment OCONUS. The Contractor shall ensure these instructions include any cyclic maintenance/exercising requirements or any special hazardous material packaging necessary to prevent the system from deteriorating due to inactivity or OCONUS shipment. When developing instructions the contractor shall consider GFM.

(c) Controlled Humidity storage (30 months). The Contractor shall ensure these instructions include any cyclic maintenance and exercising requirements or any special hazardous material packaging necessary to prevent the system from deteriorating due to inactivity. When developing instructions the contractor shall consider GFM.

C.15.2 Compliance with Federal Industry and International Transportation Requirements. The government ships using truck, rail, plane, and ship. The Contractor shall develop shipping and storage instructions for these modes of transportation and identify unique requirements for each mode of transport. This will allow the government to process for shipment based on the intended mode of transport. The Contractor shall comply with the applicable codes and standards listed here: (1) Code of Federal Regulation Titles 29, 40 and 49; (2) International Maritime Dangerous Goods Code, for vessel transport and; (3) AFJMAN 24-204, Preparing Hazardous Materials for Military Air Shipments. The Contractor shall include disassembly procedures to meet the requirements of the codes and standards mentioned above.

C.15.3 Packaging Instructions for Basic Issue Items and Components of End Item. The Contractor shall ensure that the shipping and storage instructions include packaging instructions for the Basic Issue Items (BII) and Components of the End Item (COEI). The Contractor shall ensure the instructions require that BII shall be packed separately from the COEI.

C.15.3.1 BII and COEI Packaging. The Contractor shall identify in the shipping and storage instruction provisions for stowage location and security for the BII and COEI. HAZMAT COEI are to be packed and shipped separately from the system and shall comply with Federal and Industry Transportation Requirements identified in Paragraph C.15.1 above. The Contractor shall ensure the stowage locations shall deter pilferage and shall not interfere with lifting, tie down or other transportation handling requirements.

C.15.4 Updates and Changes to Shipping and Storage Instructions. The Contractor shall revise the shipping and storage instructions to reflect design changes that affect the systems shipping configuration, weight, or transportability. The Contractor shall also provide revisions to the shipping and storage instructions for each logistics change affecting packaging instructions for BII or COEI.

C.15.5 Validation of Shipping and Storage Instructions. The Contractor shall validate the shipping and storage instructions for Long Term Storage. Short Term and Controlled Humidity Storage Instructions shall be validated at the same time by identifying steps that can be performed differently or omitted from the Long Term Instructions. For example, the Long Term Instructions may require a preservative that would not be required for the Short Term Instructions. The purpose of validation is to verify the adequacy of the preservation, packaging, packing and stowage of BII/COEI, preservation procedures for shipment and storage, and the cyclic maintenance requirements for systems in long term storage. A Government representative will verify and witness validation procedures. Contractor shall notify Government 7 days prior to scheduled validation.

C.15.6 Packaging Requirements. 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 (Attachment 12 and 13), to the Commodity Command Standards System (CCSS) for parts that are provisioned (P-source coded) and field level kits (KF-source coded).

C.15.6.1 (CDRL A00M) Packaging Data Elements. The Government will provide the Contractor with periodic reports showing status of the program. Data is critical to populating the NSNMDR and the DLIS Government data files and shall be 90% accurate. Submittal errors shall be reworked within 15 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 the Government can determine the adequacy of the packaging submittal. This includes item drawings and data 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. The Packaging Data Elements shall be formatted and delivered in accordance with:

DID DI-ALSS-81529, Packaging Data Elements and CDRL A00M.

C.15.6.2 (CDRL A00N) Special Packaging Instructions (SPIs). The Contractor shall prepare SPIs for each repairable item, each hazardous material item, each fragile, sensitive, critical item, and any item that cannot be adequately packaged/defined as a select item following the guidance in MIL-STD-2073-1D. All items requiring SPIs shall have a prototype package tested IAW ASTM-D4169, Distribution Cycle 18, Assurance Level 1, Acceptance Criteria 3 (Product is damage free and package is intact). The SPI shall be in a format that can be viewed, changed, and commented upon (e.g. Microsoft Word 6.0 or 7.0, see DI-PACK-80121B). The contractor shall provide read/write access to SPI. Data is critical to populate the Government technical data files and all data submitted shall be contractor validated and 95% accurate. Submittal errors shall be reworked within 20 days after rejection by the government. The SPI shall be

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DID DI-PACK-80121B, Special Packaging Instructions and CDRL A00N

C.15.6.3 EXCLUDED Items. Excluded items are those items with packaging data already in the Government 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, 81346, 81348, 81349, 81352, 88044. Also EXCLUDED are items for not mission capable supply, depot operational consumption and not-for-stock supply.

C.16 LOGISTICS SUPPORT TESTING

C.16.1 Logistics Demonstration Plan. The Government and contractor shall develop a Logistics Demonstration (LD) plan. The LD Plan shall contain the government and contractor plans and procedures for demonstrating the logistic 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. Government to provide plan NLT 60 days prior to LD. The following areas shall be addressed:

- (a) A listing of tasks to be demonstrated.
- (b) Demonstration conditions including the following:
 - (1) The principal 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.
 - (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, which 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.16.2 Logistics Demonstration. The Government shall 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 LWP. System peculiar TMDE and support equipment, as well as the system support package, is also tested to determine their logistic status. The LD will include performance of all the operational tasks and scheduled maintenance tasks required for the LWP:

- (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.16.3 The contractor shall supply all technical manuals, 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.17 CONTRACTOR SUPPORT OF GOVERNMENT TESTING

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C.17.1 (Changed by Modification P00010) Production Verification Test. The Government will conduct a Production Verification Test (PVT), at Aberdeen Proving Grounds, Aberdeen, MD, Camp Lejeune, NC, and Ft Hood, TX on three (3) LWPs produced with production tooling. Total duration of Government PVT will be approximately 180 days of which approximately 30 days will be at Camp Lejeune, NC and Ft Hood, TX. The Government will conduct the PVT in accordance with a Government Test Plan. The purpose of the PVT is to ensure that the LWP system conforms to the requirements specified in Section 3 of the PD 2220. The Government will be responsible for shipping the unit from APG to Camp LeJeune, NC and Ft Hood, TX. After completion of testing, if the determination is made to retrofit the FAT units, the Government shall be responsible for shipping the units to the Contractor's facility.

C.17.1.1 Technical Support during PVT. The Contractor shall provide one on-site technical representative for the duration of PVT. In addition, the Contractor shall supply any spare parts or consumable items that are required during PVT that were not included in the System Support Package. During the PVT, the Government test agency shall write Test Incident Reports (TIRs). Each TIR will be scored per the Failure Definition/Scoring Criteria contained in Attachment 14, (See Section J, Attachment 14- Failure Definition Scoring Criteria). The contractor shall respond to each TIR assigned to them with a Failure Analysis and Corrective Action Report (FACAR) in accordance with Attachment 15 (See Section J, Attachment 15 - Failure Analysis and Corrective Action Report). The contractor shall support Government Scoring Conferences by attending at the test site as well as briefing members about engineering changes and modifications made to the LWP as a result of failures during the PVT. Two Test Incident Meetings shall be held at the contractors facility; one midway through PVT and one after completion of PVT.

C.17.1.2 (CDRL A00P) A FACAR shall be submitted within the time limits listed below. Submittal requirements are based on the TIR release dates. The Government before implementation will approve corrective actions. The Failure Analysis and Corrective Action Report shall be formatted and delivered in accordance with:

Incident Classification FACAR Submitted Timeline

Critical-----Interim, within 24 hours of incident, Final report within 7 days
Major-----Interim, within 3 days of incident, Final report within 15 days
Minor-----Interim/Final within 30 calendar days, only if requested by Government
Information---Within 30 calendar days, only if requested by Government

DID DI-RELI-81315 (T), Failure Analysis and Corrective Action Report and CDRL A00P

C.17.1.3 Non-Conformance of PVT. In the event the LWP fails to meet requirements as described in the PD 2220, the contractor shall submit plans for the corrective action or disposition to the Government for approval. Minor failures may be corrected during the testing, with Government approval.

C.17.2 (Changed by Modification P00010) Limited User Test. The Government will conduct a Limited User Test (LUT) at Ft Hood, TX on three (3) LWPs produced with production tooling. Total duration of Government LUT will be approximately 8 days. The Government will conduct LUT in accordance with Government Test Plan. The purpose of the LUT is to determine operational suitability and effectiveness. After completion of testing, the contractor shall take refurbishment actions as specified in paragraph C.18.1. Contractor support for LUT shall be limited to submission of a SSP (see paragraph C.17.3) and training (See paragraph C.23.3).

C.17.3 (Changed by Modification P00010) System Support Package (SSP). The Contractor shall deliver a SSP to support PVT testing (approximately 2500 hours RAM in addition to other performance testing as specified in ATPD 2220, section 4) and a second SSP to support LUT testing (approximately 576 hours operational hours) in accordance with Exhibit B. A listing of the contents of each SSP is contained as Exhibit B of this contract. Each SSP shall contain an inventory list of its contents when delivered. The SSP's shall be delivered concurrently with the first article units. The contractor shall provide any additional parts, special tools, BII, expendable items, TMDE and draft technical manuals, or other items that the Government may require to support the test within 48 hours. To meet this requirement the Government understands that the contractor may have to acquire inventory beyond the FAT units. If additional parts are required beyond those listed in Exhibit B, the contractor shall submit a proposal for equitable adjustment within 24 hours of the request being made.

C.17.3.1 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.

C.17.3.2 Following completion of the testing the Government will issue either disposition instructions for the unused SSP items or provide this contract as GFM for use in LWP production or support of the manufacturing unit.

C.18 PROPOSAL FOR REFURBISHMENT OF FAT TEST UNITS

C.18.1 Within ten (10 days) of the Logistics Demonstration (LD) completion, the Government and the Contractor shall jointly inspect the LD unit to determine if it is in condition to be refurbished. Further, within ten (10) days of completion of the remaining FAT tests, the Government and the contractor shall jointly inspect the remaining FAT units to determine, if some, all, or none of the units are in condition to be refurbished. Within thirty (30) days of the inspections the contractor shall submit proposals covering refurbishment costs for the individual units the Government has identified as possible refurbishment candidates. The Government reserves the right after reviewing the proposals not to proceed with a refurbishment action on individual units.

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C. 18.2 Following receipt of the refurbish proposals the Government will notify the Contractor on an individual basis either that the contract will be equitably adjusted to cover refurbish costs or that the decision has been made not to refurbish units. Should the Government direct the contractor to refurbish any unit, the Contractor shall retrofit the unit to the current production baseline (all approved corrective actions and engineering changes). In addition to bringing a unit up to the current baseline, refurbish efforts shall include, but are not limited to the following actions. Based on the inspection identified above, the Government reserves the right not to require some or all of the items listed below to be completed.

- (a) Replacing all oils and lubricants
- (b) Replacing all lubes and greases
- (c) Replacing all filters
- (d) Replacing of any component that was damaged or has a used appearance (repainting of component is allowable provided it restores the item to its pre-test condition).
- (e) Touch up painting of the exterior of the unit.

C.18.3 If additional GFM is required (i.e. generators or technical manuals) the Government will provide them.

C.18.4 If the Government chooses not to have a unit refurbished, the Government will provide disposition instructions to the contract.

C.18.5 Following completion of the refurbish the Contractor shall submit the unit for acceptance. All refurbish activity is to be completed within 90 days of Contracting Officer notification to commence effort (a contract modification or delivery order).

C.19 RETROFIT OF UNITS BUILT PRIOR TO FAT APPROVAL

The Contractor shall, following PCO notification that FAT has been approved (see FAT approval requirements at paragraph E.5) retrofit all LWPs (excluding FAT units) built or in process at time of notification to the configuration baseline established after successful completion of the Physical Configuration Audit (see paragraph C.7.1.1). 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.20 MANUFACTURING STANDARD

C.20.1 Following successful completion of the Logistics Demonstration (LD), the LD unit shall remain at the Contractor's facility as the manufacturing standard. The Contractor shall maintain the unit in a serviceable condition for the time it is used as the manufacturing standard. Upon contract completion, the LD unit shall be the last item shipped on the contract. All Contractor and Government configuration changes shall be incorporated into the manufacturing standard unit in accordance with the requirements of C.7.

C.20.2 During performance of this contract, the Government reserves the right to select another production-representative unit to remain at the Contractor's facility as the manufacturing standard.

C.21 PRODUCT ASSURANCE REQUIREMENTS

C.21.1 The Contractor shall implement and maintain a product assurance program that ensures compliance to the contract requirements.

C.21.2 (CDRL (s) A00R, A00S) The Contractor shall develop and implement a quality acceptance, inspection and test (AI&T) plan for the LWP 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 LWP system either for testing or production by Government QAR inspectors. The Contractor shall conduct testing which will ensure the manufacturing processes, equipment, and procedures are effective, in accordance with ATPD 2220, paragraph 4.1.4 (AI&T) with a Government QAR present. Simulator plugs, used during the AI&T, shall be overpacked with the LWP and be retained by the receiving unit. Evidence of any failure during the acceptance inspection and test (AI&T) requirements in ATPD 2220, paragraph 4.1.4 shall constitute rejection of the unit by the Government QAR. The AI&T shall be formatted and delivered in accordance with:

DID DI-NDTI-80603, Test Procedure (AI&T) and CDRL A00R

DID DI-NDTI-80809B, Test/Inspection Report (AI&T) and CDRL A00S

C.22 GOVERNMENT FURNISHED PROPERTY

C.22.1 GOVERNMENT MATERIAL. The Government will furnish to the Contractor the items identified in H-37, Government Property, Material, and Information. The Contractor, upon receipt of Government owned assets will perform an inventory (with DCMC oversight/guidance) and inspection within ten working days. The inspection shall determine, as a minimum, if the items are in adequate condition and suitable for intended use. The Contractor shall provide notification of receipt to the Government in Contractor format.

C.22.2 (CDRL A00T) Upon discovery of defective GFM the Contractor shall document the results of the inspection and shall furnish a

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Quality Deficiency Report Standard Form 36 (QDR). The report shall, as a minimum, include a description of the deficiency and/or defect, quantity of GFM affected, recommended disposition or cost to repair the item. The Quality Deficiency Report shall be formatted and delivered in accordance with:

DID DI-QCIC-80736 Quality Deficiency Report and CDRL A00T

C.22.3 Handling, storage and accountability of GFM shall be in accordance with the Contractor's Quality Program.

C.23 TRAINING REQUIREMENTS

C.23.1 General. The Contractor shall develop training material (courseware) to cover operator and maintenance tasks for the LWP. 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 LWP. Initial training shall be conducted at Government facilities. 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 LWP. Instruction shall consist of approximately 40% classroom and 60% practical exercise, and teach operation, setup and disassembly, PMCS, inspection, testing, troubleshooting, and safety procedures. Training shall be conducted to support the Government testing (Production Verification Test and Initial Operational Test and Evaluation). No separate training is required to support the Logistics Demonstration.

C.23.2 Production Verification Test (PVT) Training. Training to support the PVT shall consist of an operator course and maintainer course. The Contractor shall conduct PVT training for a maximum of 30 students at Aberdeen, MD. The Government reserves the right to have additional participants present during conduct of course. These courses shall be targeted to the personnel who will operate and maintain the system. The PVT 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 PVT training shall not exceed 80 hours.

C.23.2.1 The contractor shall deliver three LWP (PVT units) and the associated support equipment to include technical manuals, all lesson materials, training literature, training aids, special tools & test equipment, and all tools necessary to disassemble and assemble, to the training site not later than 7 days prior to the training.

C.23.3 (Changed by Modification P00010) Limited User Training (LUT). Training to support the LUT shall consist of an operator course and maintainer course. The Contractor shall conduct training for a maximum of 30 students at Ft. Hood, TX. The Government reserves the right to have additional participants present during conduct of course. Training material shall be furnished to each student. These courses shall be targeted to the personnel who will operate and maintain the system. The 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 training shall not exceed 80 hours.

C.23.3.1 (Changed by Modification P00010)The Contractor shall deliver three LWPs (LUT units)and the associated support equipment to include draft technical manuals, all lesson materials, training literature, training aids, special tools & test equipment, and all tools necessary to disassemble and assemble, to the training site not later than 7 days prior to the training. Four (4) GFE 3kW TQG generators shall be delivered to Ft Hood, TX for the LUT, one for each LWP test unit and the fourth generator for a spare in case of generator failure on the test units.

C.23.4 (Changed by Modification P00013)Instructor and Key Personnel Training. The Contractor shall provide I&KP training and shall utilize draft courseware. A complete set of training materials, to include both instructor and student materials, shall be provided to each student. 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 30 students each. The Government reserves the right to have additional participants present during conduct of course. Each course shall not exceed 40 hours. These courses shall be targeted to instructor and key personnel who will operate and maintain the system. Within 15 days of completion of all I&KP training, the Government will provide comments to the contractor that shall be incorporated into the draft courseware to yield the final courseware. If the Distance Learning Package option is exercised (see H.45), 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.

C.23.4.1 (Changed by Modification P00013) Training will be conducted at Selfridge Air National Guard Base (SANGB), MI. Operator training will begin on 18 October 2004. Maintainer training will begin on 25 October 2004. The contractor shall ship two (2) each complete LWP's that have been refurbished. Ship units to the United States Army's Tank-automotive and Armaments Command (TACOM), ATTN: Petroleum and Water Business Area/Kevin Oehus, 6501 East Eleven Mile Road, Bldg 210, Warren, MI 48397-5000. Units will arrive no later than 18 October 2004. The Government will be responsible for transporting the two units from TACOM to the training site at SANGB.

C.23.4.2 The Contractor shall deliver the associated support equipment to include Government approved technical manuals, all lesson materials, training literature, training aids, special tools & test equipment, and all tools necessary to disassemble and assemble, to the training site no later than 18 October 2004.

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C.23.5 (CDRL A00U) Training Course Outline. The Contractor shall deliver a training course outline in accordance with DI-ILSS-80872 (T) Attachment 16 for I&KP/NET (if NET option is exercised). 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:

DID DI-ILSS-80872 (T), Training Course Outline and CDRL A00U

C.23.6 (A00V) Training Materials. The Contractor shall deliver an Instructor Guide and a Student Training Guide in accordance with DI-ILSS-80872 (T) Attachment 16. Training Materials shall contain equipment and component description, functional data, training handbooks that include, by sub-component for LWP operation, setup and disassembly, inspection, testing, troubleshooting, and safety procedures. All training materials shall be formatted and delivered in accordance with:

DID DI-ILSS-80872(T), Lesson Guides and CDRL A00V

C.23.7 (CDRL A00W) Training Course Completion Report. The Contractor shall deliver a Training Course Completion Report in accordance with DI-ILSS-80872 (T) Attachment 16. The Contractor shall data fax 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 NLT 10 days after completion of each class. Training Course Completion Report shall be formatted and delivered in accordance with:

DI-ILSS-80872(T), Training Course Completion Report and CDRL A00W

C.24 NEW EQUIPMENT TRAINING - OPTION.

C.24.1 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.6 and under the option clause H.44. 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. 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 10 classes per year 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.25 DISTANCE LEARNING (DL) PACKAGE(S) - OPTION

C.25.1 (CDRL A00X) Distance Learning Package (DLP). This contract contains in Section H.45 Distance Learning Package (DLP) option in accordance with DI-ALSS-81526A and Attachment 17. The Contractor will 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
- (d) Operator's Level Preventative Maintenance Checks and Service (PMCS)

C.25.2 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:

DI-ALSS-81526A(T), Instructional Media Package/Distance Learning Package and CDRL A00X

C.26 CONTRACTOR FIELD SERVICE REPRESENTATIVE REQUIREMENTS (FSR) - OPTION

C.26.1 If the option under paragraph H.46 for Field Service Representative is exercised, the Contractor shall provide technically qualified personnel to provide support to the Total Packaging Fielding team (defined as representatives of the Government) during the handoff to the U.S. Army receiving units or other activities designated by the Government.

C.26.2 Total Package Fielding/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.26.2.1 Deprocessing. The Contractor shall perform on-site preparation of equipment at hand-off site, including complete operator and maintainer preventive maintenance checks & services (PMCS). Upon completion of deprocessing, the equipment shall be 100% fully mission capable.

C.26.2.2 Joint Unit Inventory Form. The Government materiel fielding team, contractor, and unit gaining representative shall conduct a

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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.26.2.3 Shortage List. The Contractor shall prepare a shortage list (DA 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.26.3. The Field Service Representative shall be paid based on man-days as reflected in Section B of the contract. Travel expenses and per diem will be paid on cost reimbursable basis.

C.26.3.1 The Contractor shall provide qualified Contractor Field Service Representative(s) (FSR) in support of Total Packaging Fielding who shall advise/make recommendations to orient and instruct key Government personnel regarding operations, maintenance, repair, and supply of contractor parts for the LWP, including all components.

C.26.3.2 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.26.3.3 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 services, the Contractor shall be responsible for insuring 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 affect a security clearance. It is recommended though not a contract requirement, that the Contractor initiate clearances for potential FSRs following award.

C.26.3.4 Upon completion of an assignment, the FSR shall submit to the TACOM Contract Specialist and SAM a letter or report, in contractor format, which synopsisizes his assignment.

C.26.4 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.26.4.1 Travel time for initial travel from the Contractors facility to the work site, for travel between work sites, and for travel back to the contractors facility shall be paid as a daily rate of service and may be over/above the eight hours allowed per work day.

C.26.4.2 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 reimburseable basis.

C.26.4.3 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 reimburseable basis for auto rental rates for the site of the service as well as airfare, if air transportation is necessary, during performance of services under orders issued in accordance with this scope of work.

C.26.4.4 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 FSRs 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 US holidays, sick and emergency leave is solely the responsibility of the Contractor and shall not be paid for by the Government under 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 ***