

CONTRACT DATA REQUIREMENTS LIST

DD FORM 1423 (MECHANIZED)

CATEGORY: MISC
TO CONTRACT/PR:

SYSTEM/ITEM: CAM MWO

1. SEQUENCE NUMBER		14. DISTRIBUTION	DRFT/REG/REPRO COPIES
2. TITLE OF DATA ITEM			
3. SUBTITLE			
4. DATA ITEM NUMBER			
5. CONTRACT REFERENCE			
6. TECHNICAL OFFICE	7. DD	8. APP	9. DIST STATEMENT
	250	CODE	REQUIRED
10. FREQUENCY	11. AS OF DATE		15. TOTAL:
12. DATE OF 1ST SUBMISSION		13. DATE OF SUBSEQUENT SUBMISSION	
16. REMARKS			

1. A001		14. SEE ADDRESS CODE	/ /
2. ENGINEERING CHANGE PROPOSAL (ECP)		DISTRIBUTION	/ /
3.		ATTACHED***	/ /
4. DI-CMAN-80639C*			
5. SECTION C			
6. AMSSB-RSO	7. LT	8. -	9. **
10. ASREQ	11. ---		15. TOTAL 0/ 0/ 0
12. ASREQ		13. ASREQ	

16. REMARKS
*SEE ATTACHED DATA DELIVERY DESCRIPTION FOR CONTENT OF THE ECP. CONTRACTOR FORMAT IS ACCEPTABLE, DATA MUST BE IN GOVERNMENT COMPATIBLE SOFTWARE (I.E., MICROSOFT OFFICE). MIL-HDBK-61 MAY BE USEFUL IN DEFINING CONTENT. **DIST STATEMENT WILL BE ASSIGNED AND IMPLEMENTED BY THE DOD CONFIGURATION MGR. ***SEE CONTRACT SECTION C. ELECTRONIC FILES MUST BE LESS THAN 7MB. THE ECP Short Form and ECP Page 1 LOCATED AT [HTTP://W4.PICA.ARMY.MIL/ARDEC-RI/CMFORM.HTM](http://W4.PICA.ARMY.MIL/ARDEC-RI/CMFORM.HTM) ARE THE PREFERRED METHOD OF SUBMISSION FOR THIS DATA ITEM. (DD FORMS 1692 AND 1693)

1. A002		14. SEE ADDRESS CODE	/ /
2. REQUEST FOR DEVIATION (RFD)		DISTRIBUTION	/ /
3.		ATTACHED***	/ /
4. DI-CMAN-80640C*			
5. SECTION C			
6. AMSSB-RSO	7. LT	8. -	9. **
10. ASREQ	11. ---		15. TOTAL 0/ 0/ 0
12. ASREQ		13. ASREQ	

16. REMARKS
* SEE ATTACHED DATA DELIVERY DESCRIPTION FOR CONTENT OF RFD. ADEQUATE DATA/ANALYSIS/TESTING TO SUPPORT THE POSITION RELATIVE TO PARAGRAPH 24 AND 25 OF DATA DELIVERY DESCRIPTION SHALL BE INCLUDED. CONTRACTOR FORMAT IS ACCEPTABLE, BUT DATA MUST BE IN GOVERNMENT COMPATIBLE SOFTWARE (I.E., MICROSOFT OFFICE). MIL-HDBK-61 MAY BE USEFUL IN DEFINING CONTENT. **DISTRIBUTION STATEMENT WILL BE ASSIGNED AND IMPLEMENTED BY THE DOD CONFIG MGR. ***SEE CONTRACT SECTION C. ELECTRONIC FILES MUST BE LESS THAN 7MB. THE RFD/W FORM LOCATED AT [HTTP://W4.PICA.AMRY.MIL/ARDEC-RI/CMFORM.HTM](http://W4.PICA.AMRY.MIL/ARDEC-RI/CMFORM.HTM) IS THE PREFERRED METHOD OF SUBMISSION FOR THIS DATA ITEM. (DD FORM 1694)

1. A003		14.	
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E-MAIL: rods@ria.army.mil

1. A006 14. AMSTA-LC-CIAT / 1/
2. Radiation Testing Tracking System
3. (RATTS) Transactions
4. DI-MISC-80923A
5. SOW, ACTBY INST, para 3,4
6. AMSTA-AC-NCD 7. NO 8. 9. N/A
10. ASREQ 11. ASREQ 15. TOTAL 0/ 1/ 0
12. * 13.
16. REMARKS
*SUBMISSION REQUIRED UPON RECEIPT OR SHIPMENT OF RATTS-REPORTABLE DRIFT
TUBE MODULES.
Reports should be furnished to address in para 3d of ACCTBY INST.

1. A007 14. AMSTA-AC-NCPD / 1/
2. REPORT OF RECEIPTS, INVENTORY ADJUSTMENTS
3. AND SHIPMENTS
4. DI-MGMT-80442
5. SOW, ACTBY INST para 3,4,6,9
6. AMSSB-RSO-ADM 7. NO 8. 9.N/A
10. MNTHLY 11. 10th day of month following report month
15. TOTAL 0/ 1/0
12. 40 DAC 13.
16. REMARKS
*SUBMISSION REQUIRED MONTHLY.
E-MAIL: russellr2@ria.arm

APPROVED BY: STEPHEN J HANSEN, SDMO, AMSTA-AR-QAC

DATE: 10/03/02

Chemical Agent Monitor Modification Work Order (MWO) Statement of Work (SOW) - Section C

C.1 SCOPE

This contract requires replacing plastic Sieve Breather and plastic Sieve Pump assemblies with their metal equivalents, along with replacing Teflon cell components with the liquid crystal polymer equivalent. The new metal parts will eliminate the need for future maintenance repair and the costs associated with it. Instead of replacing the Sieve Breather and Sieve Pump, the metal parts allow them to be refilled. In addition, these refillable parts allow CAM users the option of in field maintenance without the fear of contacting the radioactive source. These changes will bring the Chemical Agent Monitor (CAMs) up to the latest CAM configuration and provide life cycle cost savings for future repairs. At the completion of the refurbishment effort, the CAMs shall be delivered in operational condition, as defined later in this SOW.

C.2 APPLICABLE DOCUMENTS

- A. Technical Data Package List (TDPL) 442-307 – Sieve Breather (refillable)
- B. TDPL 5-15-20020 – Metal Sieve Pump
- C. TDPL 442-313 – Membrane Assembly
- D. TDPL 442-413 – Source Insulator
- E. TDPL 442-502 – Sensor Body
- F. TDPL 442-503 – Ring, Outer, Sensor
- G. TDPL 442-533 – Heater, Grid
- H. TDPL 442-410 – Exhaust Collar
- I. TDPL 442-674 – Nozzle Protective Cap Assembly
- J. TDPL 442-704/EA-PRF-2173 – Filter assembly
- K. Purchase Description (PD) EA-M-1756 – Monitor Module Assembly
- L. PD EA-C-1579 – Chemical Agent Monitor
- M. PD EA-C-1798 – Cleaning Handling and Assembly Procedures for the Chemical Agent Monitor
- N. TDPL 442-070 – Drift Tube Module Assembly
- O. TDPL 442-032/EA-PRF-1576 – Pump
- P. TDPL EA-PRF-2168 – Printed Circuit Board
- Q. TDPL 442-310/EA-PRF-2171 – Nozzle Assembly
- R. TDPL 442-445/EA-PRF-2180 – Nozzle Holder Assembly
- S. TDPL 442-043/EA-PRF-1577 – Display, Optoelectronic
- T. TDPL 442-492/EA-PRF-2175 – Protective Dust Cap
- U. TDPL 442-726/EA-PRF-2170 – Battery Contact Assembly

- V. TDPL 442-024 – Case Assembly
- W. TDPL 442-416 – Source
- X. Special Packaging Instruction for the Chemical Agent Monitor – Attachment 1

C.3 REQUIREMENTS.

C.3.1 Purchased Material: The Contractor shall provide all material necessary to complete the Modification Work Order efforts described in C.3.2.

C.3.2 Modification Work Order for CAM: The contractor shall refurbish the CAM to like new operation in accordance with the applicable documents listed above. Like new operation shall be defined as meeting the testing requirements. Cosmetic imperfections are acceptable as long as the refurbished CAM meets all the testing requirements. (See C.3.3)

The Contractor shall replace the following parts/assemblies:

- 442-307 – Sieve Breather Assembly (replace plastic part with metal part)
- 442-666 – Sieve Pump Assembly (replace with 5-15-20020)
- 442-579 – Label Radiation Warning
- 442-313 – Membrane Assembly
- 442-413 – Source Insulator
- 442-502 – Sensor Body
- 442-503 – Ring, Outer, Sensor
- 442-533 – Heater, Grid
- 442-410 – Exhaust Collar
- 442-704/EA-PRF-2173 – Filter Assembly
- 442-674 – Nozzle Protective Cap Assembly
- 442-416 - Source

As determined by the Contractor, the following parts/assemblies shall be replaced or repaired as necessary:

- 442-032/EA-PRF-1576 – Pump, Rotary
- EA-PRF-2168 – Printed Circuit Board
- 442-310/EA-PRF-2171 – Nozzle Assembly
- 442-445/EA-PRF-2180 – Nozzle Holder Assembly
- 442-043/EA-PRF-1577 – Display, Optoelectronic
- 442-492/EA-PRF-2175 – Protective Dust Cap
- 442-726/EA-PRF-2170 – Battery Contact Assembly

- 442-024 – Case Assembly

C.3.3 Testing Requirements: All refurbished CAMs shall pass all the following tests:

1. **Performance Test:** Performance testing shall be in accordance with sections 3.3 (Requirements) and 4.3.6 (Testing) of PD EA-M-1756.
2. **Confidence Sample Test:** Confidence Sample Test shall be in accordance with sections 3.12.9 (Requirement) and 4.4.6.9 (Testing) of PD EA-C-1579.
3. **Leak test**
 - a- **Requirement:** With the following conditions applied, the leak rate at the leak test point (see drawing 442-031) shall be not greater than 0.05mL/min:
 - + Voltage of 2.25 ± 0.10 V (dc) applied to X6-2 (+V) (see drawing 442-031) with respect to X6-1(0V) (see drawing 442-031) for not less than 5 minutes.
 - + The environmental temperature shall be stabilized at room temperature $\pm 0.1^\circ\text{C}/\text{minute}$.
 - b- **Testing:** Connect a bubble flow meter to the leak test point and apply the required voltage to X6-2 with respect to X6-1. After 5 minutes, measure the drift tube module temperature for stabilization. Determine the leakage using the bubble flow meter and a stopwatch in accordance with the manufacturer’s instructions.

C.3.4 First Article Testing (FAT): FAT shall be required for the following parts/assemblies according to the QAP/PD for the part. The following quantities shall be furnished for FAT:

<u>Quantity (ea)</u>	<u>Part</u>
(3)	442-307 - Sieve Breather Assembly (metal design)
(3)	442-313 - Membrane Assembly
(3)	442-704- Filter Assembly OR
(8)	EA-PRF-2173 - Filter Assembly
(3)	5-15-20020 - Sieve Pump Assembly

FAT shall be required for the following parts/assemblies, if replaced, according to the QAP/PD for the part. The following quantities shall be utilized for FAT:

<u>Quantity (ea)</u>	<u>Part</u>
(21)	442-032/EA-PRF-1576 – Pump*
(24)	EA-PRF-2168 – Printed Circuit Board
(3)	442-310 – Nozzle Assembly OR
(8)	EA-PRF-2171 – Nozzle Assembly
(3)	442-445 – Nozzle Holder Assembly OR
(8)	EA-PRF-2180 – Nozzle Holder Assembly

- (21) 442-043/EA-PRF-1577 – Display, Optoelectronic*
- (3) 442-492 – Protective Dust Cap OR
- (8) EA-PRF-2175 – Protective Dust Cap
- (3) 442-726 – Battery Contact Assembly OR
- (8) EA-PRF-2170 – Battery Contact Assembly
- (3) 442-024 – Case Assembly**

Refer to Section E of the contract for submission of FAT test plan and FAT test report. The FAT test plan shall be submitted to the contracting officer prior to conducting FAT. If these parts/assemblies are currently in production, FAT for them may be waived at the government’s discretion.

* If contractors decide to build these parts using TDP provided by the government the first article tests shall be performed as stated in the Performance Purchase Description for the part(s). Some requirements may be waived at the government’s discretion.

** Repair case assembly must meet requirement of note 8 of drawing 442-024.

C.3.5 Verification Methods: Verification methods (of any requirements of C3.3 and C3.4, of this SOW) include examination, analysis, demonstration, and test. The Government reserves the right to approve or disapprove each analysis based on the submitted evidence or its own analysis. The contractor may prepare alternative verification methods and acceptance provisions in lieu of the verification procedures in this contract. Prior to applying alternative acceptance procedures, the contractor shall obtain Government approval.

C.3.6 Packaging. The contractor shall package the refurbished CAM in accordance with attachment 1.

C.3.7 Configuration Management

C.3.7.1 Configuration Management Plan (CMP). The contractor shall implement and maintain a configuration management plan throughout the life of the contract. MIL-STD-973 contains relevant configuration management information that may be useful to the contractor. The contractor shall obtain the written approval of the PCO prior to the implementation of the CMP and any subsequent changes.

C.3.7.2 Requests for Deviation, Requests for Waiver, Engineering Change Proposal and Notice of Revision.

C.3.7.2.1 The contractor shall prepare and submit Requests for Deviation and Requests for Waiver, if required.

C.3.7.2.2 The Government will maintain formal configuration control of all performance specifications and configuration drawings referenced in Section C.3.2.

C.3.7.2.3 All engineering changes against items under Government Configuration Control shall be documented on an engineering change proposal and notice of revision, in Government or contractor format, and submitted to the Government for approval in accordance with the approved CMP.

C.3.7.3 Configuration Control Board (CCB).

C.3.7.3.1 The contractor shall establish and implement the use of a CCB to review engineering changes and recommend appropriate action prior to implementation.

C.3.7.3.2 The contractor shall provide the Government at least ten (10) days notice prior to convening the CCB so that if the Government chooses, a representative may participate. The contractor shall provide the Government with the engineering change proposal and a notice of revision at least ten (10) days prior to convening the CCB.

C.3.7.3.3 If the contractor generates a change against an item that is under Government Configuration Control, the contractor shall provide an engineering change proposal and notice of revision, in Government or contractor format, at least ten (10) days prior to the Government convening the CCB. No engineering changes shall be implemented without Government approval.

CHEMICAL/SAFETY CLAUSES

1. All chemical agent contracts shall be conducted as prescribed in Army Regulation (AR) 50-6, Chemical Surety, chapter 8, 1 Feb 95.
2. The contract will contain the following safety provisions:
 - a. PADDs Clause HF6013 - FAR 52.223-3, Hazardous Material Identification and Material Safety Data.
 - b. PADDs Clause HA7704 - DFARS 252.223-7001, Hazard Warning Labels.
3. Chemical Surety Material (CSM) Clause with list of CSM Bailment Agreement Holder is as follows:

CHEMICAL SURETY MATERIAL (CSM) CLAUSE

Some of the inspection and/or testing required to be performed under this solicitation/purchase description will require handling and using CSM. CSM is generally defined as chemical agents, which can kill, seriously injure, or incapacitate persons through their chemical properties. Any U.S. contractor handling or using CSM must hold a Bailment Agreement with SBCCOM, Aberdeen Proving Ground, MD. The U.S. government will furnish the chemical agents necessary for testing to a U.S. contractor when the agents are requested by a contractor who is certified to handle and store these agents (Bailment Agreement Holder). For performance under any contract resulting from this solicitation/purchase description, the successful contractor is required to have a current Bailment Agreement or utilize an outside lab currently holding a Bailment Agreement. The U.S. government will not provide CSM to, or enter into Bailment Agreements with, concerns located outside of the U.S. Non-U.S. contractors must obtain CSM, and the authorization to use it, from their respective governments. Any CSM provided in this manner must be in the purities specified in the contract.

Following is a list of current CSM Bailment Agreement holders. This list is provided for informational purposes only and may not all be inclusive:

Veridian	P.O. Box 400	716-632-7500	Mike
Calspan Operations	Buffalo, NY 14225	716-631-4183 Fax	Moskal
IIT Research Institute	10 West 35th St. Chicago, IL 60610	312-567-4262 312-567-4286 Fax	Gug Sresty

Battelle	505 King Ave. Columbus, OH 43201	614-424-7283 614-424-4905 Fax	Marty Toomajian
Midwest Research Institute	425 Volker Blvd. Kansas City, MO 64110	816-753-7600 816-754-8420 Fax	Chris Bailey
Southern Research Institute	2000 Ninth Ave South, P.O. Box 55305 Birmingham, AL 35255-5305	205-581-2219 205-581-2726 Fax	Dr. Ralph Spafford
Geomet Technologies, Inc.	8577 Atlas Drive Gaithersburg, MD 20877	301-417-9605 301-990-1925 Fax	Frank Kelly
Truetech, Inc.	680 Elton Ave Riverhead, NY 11901	516-727-8600 516-727-7592 Fax	Daniel Kohn
Environmental Technologies, Inc.	1400 Taylor Ave P.O. Box 9840 Baltimore, MD 21284	410-321-5200 410-321-5255	Michael Moskal

Organizations wishing to become CSM Bailment Agreement holders may contact the U.S. Army Soldier Biological Chemical Command Surety Office at (410)436-2051, Ms. Carol Eason for further details.

4. The POC is Mrs. Judith Windham, AMSTA-LC-SF, ext. x6367, e-mail windhamj2.

JUDITH D. WINDHAM
Safety Engineer

PACKAGING INSTRUCTIONS
SOLICITATION # DAAE 20-02-R-0275

**These Military Packaging Instructions apply to Solicitation:
DAAE 20-02-R-0275 only, and cover two configurations:**

- CAM Carrying Case – Part Number 5-15-18520**
- CAM Carrying Case – Part Number 442-316**

Rosina Poole
Packaging Specialist for CAM / ICAM Team
410-436-8546
Completed 19 June 2002

Chemical Agent Monitor System
NSN: 6665-01-199-4153
Unit of Issue: EA

Solicitation Number: DAAE 20-02-R-0275
Part Number: 442-301
QUP: 1

Level A Unit Packing shall be in accordance with MIL-STD-2073-1, Method 41 and as specified herein.

Intermediate Packaging and Packing shall be in accordance with MIL-STD-2073-1 and as specified hereon.

Marking shall be in accordance with MIL-STD-129 and as specified hereon.

Quality Performance and Testing Requirements shall be in accordance with MIL-STD-2073-1 and as specified hereon.

Unless otherwise specified, material shall be minimum size in accordance with MIL-STD-2073-1. Tolerances shall be in accordance with material specifications. All dimensions are in inches unless otherwise specified.

THIS DOCUMENT IS NOT APPLICABLE FOR INTERPLANT SHIPMENTS. Packaging and marking for interplant shipment is for supplies and materials that do not directly enter the military supply system. Typical interplant shipments are shipments from a vender to a subcontractor or a prime contractor, or between contractors and subcontractors, or from a vender or contractor to a military arsenal, plant, or other activity for evaluation, immediate use, or further processing as specified in the applicable contract.

- A. When packaging Carrying Case 5-15-18520, use the following procedure:
1. Remove the ICAM from the Carrying Case and insert one desiccant bag into the battery compartment and two under the handle. Use drawing 442-729 for desiccant.
 2. Place the ICAM into barrier bag conforming to (MIL-DTL-117, Style 1, Type I, Class E). Closure shall be accomplished in accordance with barrier material supplier's recommendations for dwell, pressure and temperature requirements. The volume of trapped air within bag shall be kept to a minimum by compressing by hand or carefully drawing a vacuum, prior to final heat seal. Barrier bag material shall be MIL-PRF-131, Type 1, Class 1.
 3. Place the ICAM, Nozzle Protective Cap, Confidence Sample, Buzzer, Carrying Harness Assembly, and Strap (unit packed as specified on page 5), into the Carrying Case as illustrated on page 5. Place Filtered Nozzle Package Assembly into the compartment inside lid of case. Secure velcro closure on pouches containing the Buzzer, Carrying Harness Assembly, and Strap. A grade V3c box conforming to ASTM D5118, class WR, style optional may be utilized.

4. Place the Technical Manual, TM3-6665-331-10, into a barrier bag conforming to (MIL-DTL-117, Style 1, Type III, Class B, Size 5 x 8. Bag material shall conform to A-A-3174 and shall be 4 mils thick.. Closure shall be accomplished in accordance with barrier material supplier's recommendations for dwell, pressure and temperature. Locate bagged manual on top of Carrying Case. Testing of the bag is not required.

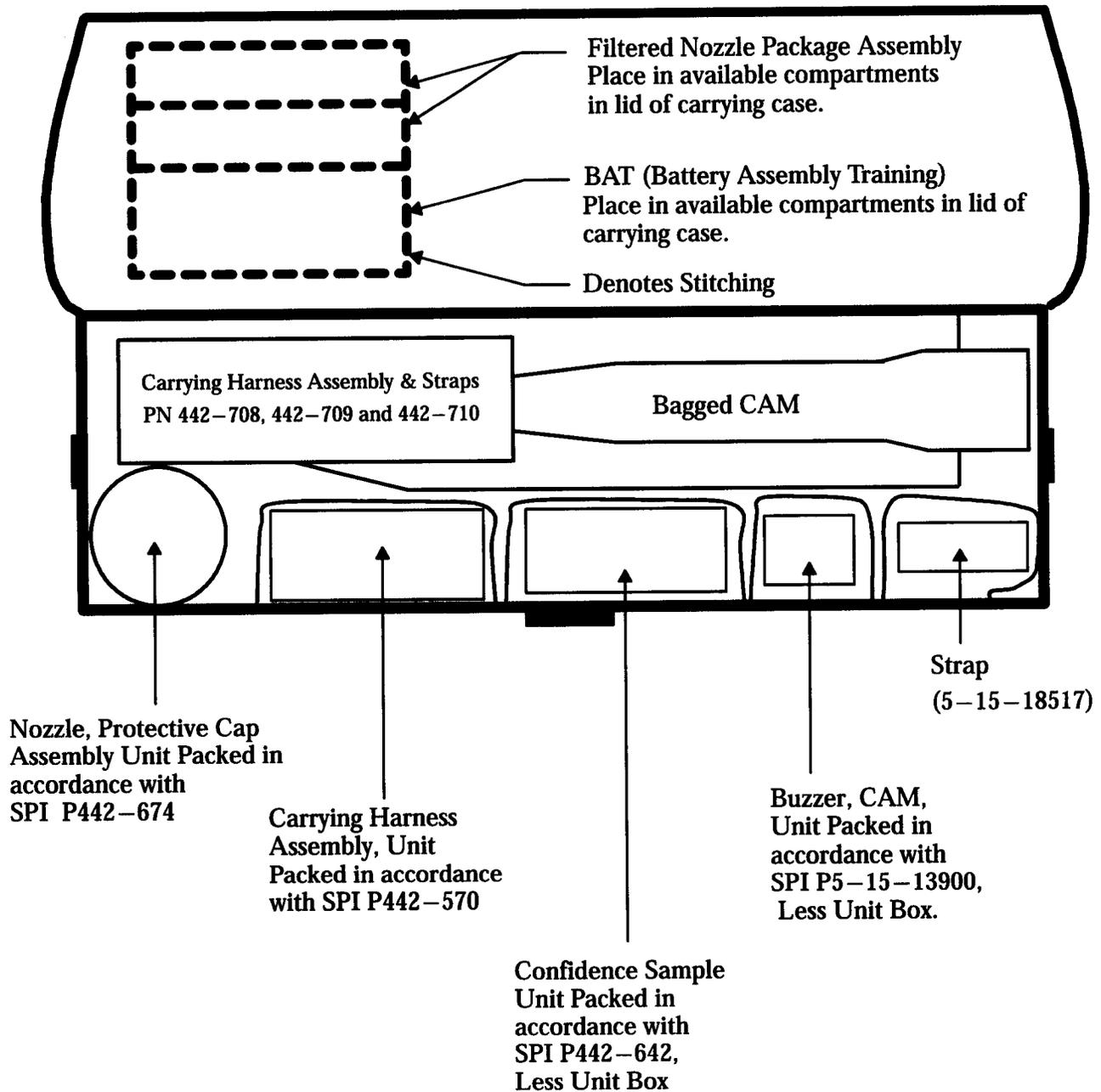
NOTE: TM IS GOVERNMENT FURNISHED MATERIAL (GFM) AND IS NOT FURNISHED WITH TECHNICAL DATA PACKAGE (TDP)

5. **Unit Packing.** The ICAM, prepared as above, shall be placed in a fiberboard box conforming to ASTM D5118, style RSC, grade W5c, class WR, size 19 1/2 x 7 1/2 x 9 inches. Closure shall be accomplished in accordance with ASTM D1974, closure method 2B7.
6. **Packing.** Packing shall be Level A or B as specified in the contract or order.
 - a. Level A. Ten (10) ICAMs, unit packed as above, shall be packed in container designated for Level A, in accordance with MIL-STD-2073-1 (Level A exterior shipping container table). The inside dimensions of the box shall be minimum size to contain the unit packs. Fill any voids between the unit pack container and shipping container with fiberboard pads conforming to ASTM D4727, grade optional. Closure shall be accomplished in accordance with the applicable requirements referenced in the container specification.
 - b. Level B. Level B packing shall be as specified for level A, except that the shipping containers shall be containers designated for level B shipments in accordance with MIL-STD-2073-1.
7. **Shipping container special marking.** In addition to any other marking required by the contract or order, and MIL-STD-129, the following special markings shall be applied:
 - a. Shelf life markings.
 - b. ICAM Serial Number.
 - c. ICAM Lot Number.
 - d. Cell Module Assembly, Serial Number.
 - e. The shipping papers shall contain the following statement:

“THIS PACKAGE CONFORMS TO CONDITIONS AND LIMITATIONS SPECIFIED IN CFR 49 173.422 FOR EXEMPTED RADIOACTIVE MATERIALS, INSTRUMENTS AND ARTICLES, UN2910.”

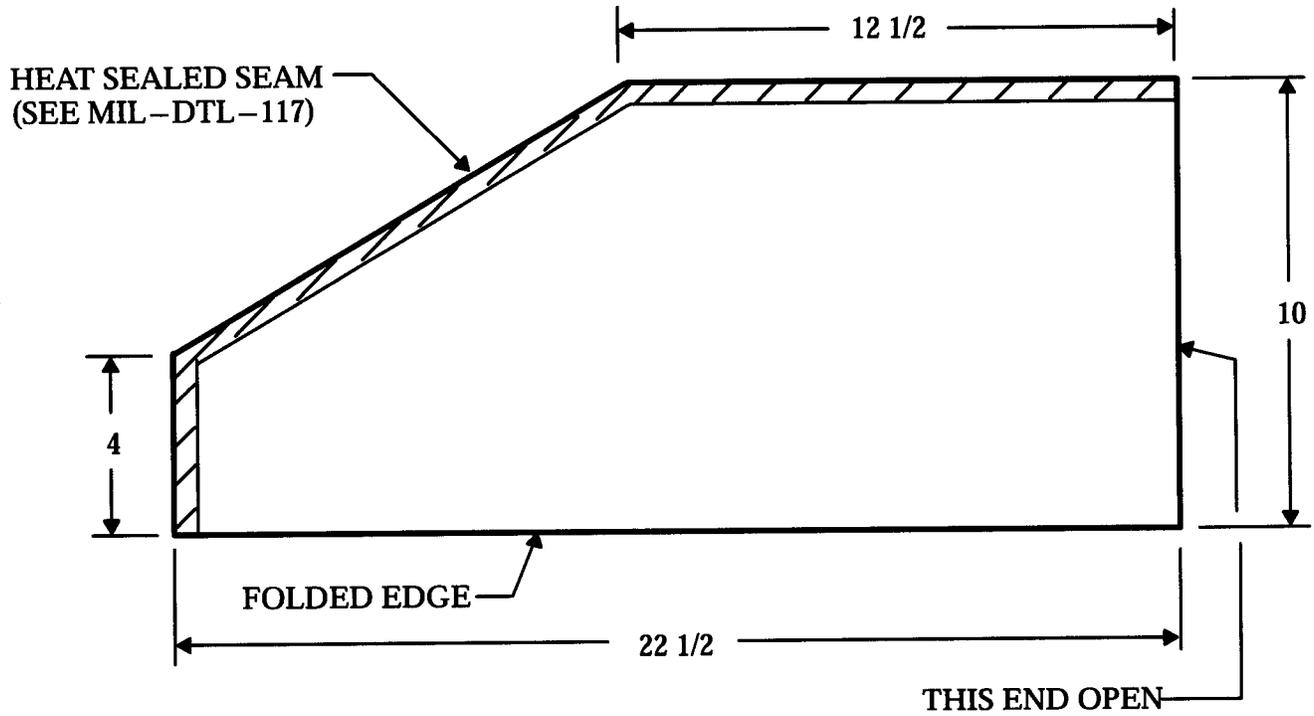
8. **Unit Pack special marking.** In addition to any other marking required by the contract or order, and MIL-STD-129, the following special markings shall be applied:
 - a. ICAM Serial Number.
 - b. ICAM Lot Number.
 - c. Cell Module Assembly, Serial Number.
9. **Unit pack container leakage.** The unit pack container shall show no sign of leakage, when tested in accordance with 4.1 on page 12 of this document.
10. **Heat seal seam.** The heat seal seam of the unit pack container shall show no sign of separation when tested in accordance with 4.2 on page 12 of this document.

**ARRANGEMENT OF COMPONENTS IN
CARRYING CASE 5-15-18520**



SCALE NONE: DRAWING FOR REFERENCE ONLY

CAM BARRIER BAG CONSTRUCTION



SCALE NONE: DRAWING FOR REFERENCE ONLY

- B. When packaging– Carrying Case 442–316, use the following procedure:**
1. Remove the CAM from the Carrying Case and insert one desiccant bag into the battery compartment and two under the handle. Use drawing 442–729 for desiccant.
 2. Place the CAM into barrier bag (MIL–DTL–117, Style 1, Type I, Class E). Closure shall be accomplished in accordance with barrier material supplier’s recommendations for dwell, pressure and temperature. The volume of trapped air within the bag shall be kept to a minimum by compressing by hand or carefully drawing a vacuum in side of the bag, prior to final heat seal. Barrier bag material shall be MIL–PRF–131, Type 1, Class 1.
 3. Place the CAM, Nozzle Protective Cap, Confidence Sample, Buzzer, Carrying Harness Assembly, and Strap (unit packed as specified on page 9), into a container that conforms to ASTM D5118, style RSC, grade W5c, class WR. Then place in with the Carrying Case as illustrated on page 9. Secure velcro closure on carrying case top. A grade V3c box may be utilized. Case as illustrated on page 9.
 4. Place the Technical Manual, TM3–6665–331–10, into barrier bag (MIL–DTL–117, Style 1, Type III, Class B, Size 5 x 8, using A–A–3174 material). Closure shall be accomplished in accordance with barrier material supplier’s recommendations for dwell, pressure and temperature. Locate bagged manual on top of carrying case. Testing of the bag is not required.

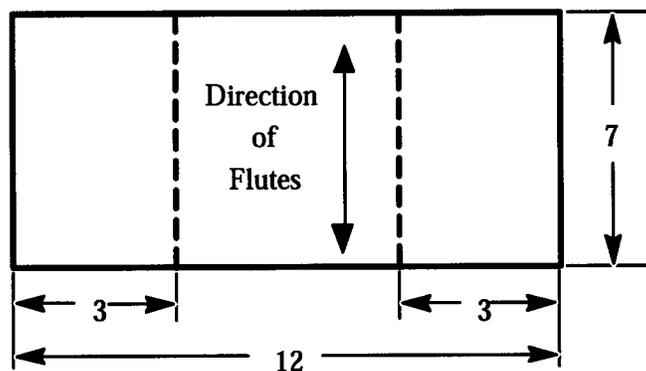
NOTE: TM IS GOVERNMENT FURNISHED MATERIAL (GFM) AND IS NOT FURNISHED WITH TECHNICAL DATA PACKAGE (TDP)

5. **Unit Packing.** The CAM, prepared as above, shall be placed in a fiberboard box conforming to ASTM D5118, style RSC, grade W5c, class WR, size 22 x 6 x 7 inches. Closure shall be accomplished in accordance with ASTM D1974, closure method 2B7.
6. **Packing.** Packing shall be Level A or B as specified in the contract or order.
 - a. Level A. Ten (10) CAMs, unit packed as above, shall be packed in container designated for Level A, in accordance with MIL–STD–2073–1 (Level A exterior shipping container table). The inside dimensions of the box shall be minimum size to contain the unit packs. Fill any voids between the unit pack container and shipping container with fiberboard pads conforming to ASTM D4727, grade W5c (optional). Closure shall be accomplished in accordance with the applicable requirements referenced in the container specification.
 - b. Level B. Level B packing shall be as specified for level A, except that the shipping containers shall be containers designated for level B shipments in accordance with MIL–STD–2073–1.

7. **Shipping container special marking.** In addition to any marking required by the contract or order, and MIL-STD-129, the following special markings shall be applied:
 - a. Shelf life markings.
 - b. CAM Serial Number.
 - c. CAM Lot Number.
 - d. Cell Module Assembly, Serial Number.
 - e. The shipping papers shall contain the following statement:

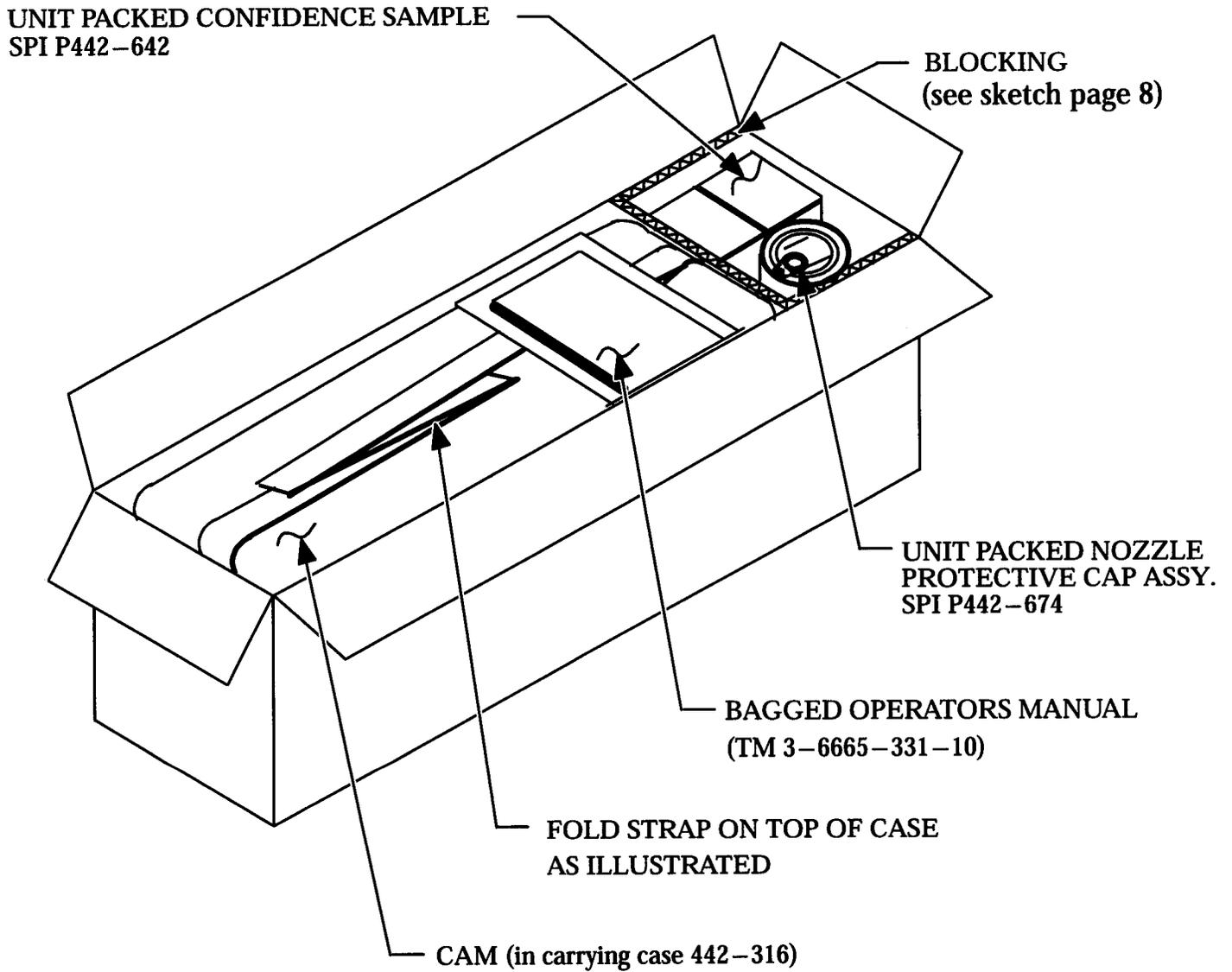
“THIS PACKAGE CONFORMS TO CONDITIONS AND LIMITATIONS SPECIFIED IN CFR 49 173.422 FOR EXEMPTED RADIOACTIVE MATERIALS, INSTRUMENTS AND ARTICLES, UN2910.”
8. **Unit pack special marking.** In addition to any marking required by the contract or order, and MIL-STD-129, the following special markings shall be applied:
 - a. CAM Serial Number.
 - b. CAM Lot Number.
 - c. Cell Module Assembly, Serial Number.
9. **Unit pack container leakage.** The unit pack container shall show no sign of leakage, when tested in accordance with 4.1 on page 12 of this document.
10. **Heat seal seam.** The heat seal seam of the unit pack container shall show no sign of separation when tested in accordance with 4.2 on page 12 of this document.

BLOCKING



SCALE NONE: DRAWING FOR REFERENCE ONLY

UNIT PACK ARRANGEMENT – USING CARRYING CASE (442–316)



SCALE NONE: DRAWING FOR REFERENCE ONLY

1. Quality Assurance Provisions.

- 1.1 First Article Inspection.** The first article packaging sample shall be five packaged CAMs and 5 empty bags shall be removed from the first article quantity.
- 1.2 Inspection Procedures.** The first article sample of packaged CAM assemblies shall be examined and tested in accordance with the first article classification of characteristics.
- 1.3 Acceptance Criteria.** If any first article sample fails to comply with any of the requirements, the first article sample shall be rejected.

First Article Classification of Characteristics.

Characteristic	Reference	Sampling and Acceptance Criteria	Inspection Method
Item completely clean and dry prior to unit packing	MIL–STD–2073–1	100%	VI and CE
Marking evident, correct and legible	Notes A7 & B7	100%	VI and CE
Desiccant correct	Notes A1 & B1	100%	VI and CE
Barrier bag correct	Notes A2, A4, B2 & B4	100%	VI and CE
Packaging components (bags, boxes, etc)	All items specified in this document.	100%	VI and CE
Unit pack container correct	Notes A5 & B5	100%	VI and CE
Unit pack container marking correct	Notes A7 & B7	100%	VI and CE
Barrier bag leakage	Notes A9 & B9	100%	4.1
Barrier bag heat seam strength	Notes A10 & B10	100%	4.2
Notes: CE – Commercial inspection equipment VI – Visual inspection			

2. Conformance Inspection.

- 2.1 Lotting.** A lot shall consist of the packaged items produced by one manufacturer, at one plant, from the same materials, under essentially the same manufacturing conditions, and at essentially the same time.
- 2.2 Sampling.** Unless otherwise specified, sampling for examination shall be conducted in accordance with the conformance classification of characteristics in 2.4 (a).
- 2.3 Inspection Characteristics.** Sample rain shield assemblies shall be examined and tested in accordance with the conformance classification of (2.4(a)). Failure of any sample item to conform to any characteristic in the conformance classification of characteristics based on sampling and acceptance criteria specified therein shall be cause for rejection of the lot represented.
- 2.4 Classification of Characteristics.** Conformance examination and tests shall be as specified in the conformance classification characteristics in 2.4 (a). When verification levels (vls) are specified for selection of sample sizes and acceptance criteria, the attributes sampling plan of MIL – STD – 1916 shall apply.

2.4(a) Conformance Classification of Characteristics.

Characteristic	Reference	Sampling and Acceptance Criteria	Inspection Method
Item completely clean and dry prior to unit packing	MIL – STD – 2073 – 1	VL – III	VI and CE
Marking evident, correct and legible	Notes A7 & B7	VL – III	VI and CE
Desiccant correct	Notes A1 & B1	VL – III	VI and CE
Barrier bag correct	Notes A2, A4, B2 & B4	VL – III	VI and CE
Packaging components (bags, boxes, etc)	All items specified in this document.	VL – III	VI and CE
Unit pack container correct	Notes A5 & B5	VL – III	VI and CE
Unit pack container marking correct	Notes A7 & B7	VL – III	VI and CE
Barrier bag leakage	Notes A9 & B9	5	4.1
Barrier bag heat seam strength	Notes A10 & B10	5	4.2
Notes: CE – Commercial inspection equipment VI – Visual inspection			

4. Tests.

- 4.1** The barrier bag, containing the CAM, shall be tested IAW MIL-STD-2073-1, appendix G (hot water technique).
- 4.2** The heat seal seam of the empty barrier bag, shall be tested IAW MIL-STD-2073-1, appendix G (heat-seal seam test).

DOCUMENT SUMMARY LIST

Item: CAM MWO

NSN:

Control Number/PRON:

Identifies all first tier documents (cited in SOW) (applicable DID's). Also included are all referenced documents (2nd, (includes DID block 10 references), 3rd and lower tier) which have been tailored.

DOCUMENT CATEGORY:

CATEGORY 0 - Unless otherwise specified in the solicitation, contract, or contract modifications, all documents are for guidance and information only.

CATEGORY 1 - The requirements contained in the directly cited document are contractually applicable to the extent specified. All referenced documents are for guidance and information only.

CATEGORY 2 - The requirements contained in the directly cited document and the reference documents identified in the directly cited document are contractually applicable to the extent specified. All subsequently referenced documents are for guidance and information only.

CATEGORY 3 - Unless otherwise specified in the solicitation, contract or contract modification, all requirements contained in the directly cited document and all reference and subsequently referenced documents are contractually applicable to the extent specified.

Document Number (Contract Reference) Applicable Tailoring	Document Title	Document Date/ Document Category
1a. N/A	Section C titled: Configuration Management Documentation	N/A Cat 2
1b. DI-CMAN-80639C (seq A001)	Engineering Change Proposal (ECP)	30 Sep 00 Cat 1
1c. DI-CMAN-80640C (seq A002)	Request for Deviation (RFD)	30 Sep 00 Cat 1
1d. DI-CMAN-80642C (seq A003)	Notice of Revision (NOR)	30 Sep 00 Cat 1
2. ANSI/ISO/ASQC Q9001 Higher Level Contract Quality Requirement (Sec E) ANSI/ISO/ASQC Q9001-2000	QualitySystems-Model for QA in Design/Devel., Prod., Installation & Servicing OR American National Standard Qualitymanagement systems- Requirements	1994 13 Dec 00

ACCOUNTABILITY INSTRUCTIONS

1. Retention of Accountability. Government assets provided for repair/modification: The Government is required to retain property accountability for all wholesale assets sent to contractor for repair, FAR subpart 45.105(b)(1) is invoked to enable the Government to maintain the official property records for Government property furnished to a contractor for storage or repair. The Contractor shall maintain custodial inventory records of assets for which the Government is accountable to enable calculation of an inventory balance by NSN. Subpart 45.5 of the FAR (paragraphs 45.505, 45.505-1, and 45-505-3) contains provisions acceptable for custodial property records. Cited data item descriptions provide transaction reporting necessary for accurate physical and fiscal accounting for material in the possession of defense contractors.

2. All Data/Reports to be submitted electronically utilizing E-Mail with attachments of MSWORD, MICROSOFT EXCEL, or Flat Text file software packages. If unable to E-Mail, reports are to be submitted on 3 ½ 1.44M floppy disks.

3. Material Receipt by Contractor.

a. Reporting of receipts: The Contractor shall receive assets from the Government and shall perform an inspection and inventory within the time specified by DD Form 1423. Assets received shall be reported by NSN, quantity, condition code, document number and serial number of receipt in accordance with DD Form 1423, DI-MGMT-80442. Reporting data may be obtained from DD Form 1348-1A accompanying the receipt, from other documentation provided, or from the following POC:

COMMANDER
SBCCOM
ATTN: AMSSB-RSO-ADM
Rock Island, IL 61299-7390
Commercial Phone: 309-782-6796

b. Discrepancy Reporting: Discrepancies shall be distinguished and reported as one of the following:

(1) Transportation type discrepancy: This discrepancy is evident when material received disagrees with the condition, quantity, or type from that property described on the bill of lading or other transportation document. See DI-MGMT-80544A.

(2) Shipping type discrepancy: This discrepancy is evident when freight is opened and the contents do not agree with

the supply shipping documents. See DI-MGMT-80503, Report of Shipping (Item) and Packaging Discrepancy.

c. Status of Repairable Assets: Status of repairable assets shall be provided by the Report of Receipts, Adjustments, Inventory and Shipments. See DI-MGMT-80442.

d. Receipt of Serial Numbered Items: Tracking Radiation Testing Tracking System (RATTS) items by serial control transactions is required by AR 710-3, Chapter 4, Section 1, and shall be accomplished in accordance with DI-MISC-80923A. Each asset received from the Government will be accompanied by two RATTS "S" transaction cards (DIC BDA). Immediately upon receipt of CAMs, process the two "S" transactions in accordance with the following to prepare three "R" transactions.

(1) Perpetuate all data entries except the following:

CC 7 Transaction Code: Change to "R"
CC 45-50 DODAAC, Ship to: To be provided
CC 51-56 Reporting DODAAC: Change to the DODAAC
specified in the contract
CC 76-80 Transaction Date: Enter current Ordinal
date

(2) Two "R" transactions shall remain with the CAM throughout the repair/storage process. The remaining transaction shall be immediately forwarded by registered mail to:

U.S. Army Material Command
Logistics Support Activity (LOGSA)
Major Item Center (MIC)
ATTN: AMXLS-MD(UIT)
Redstone Arsenal, Alabama 35898-7466
Commercial Phone (205) 955-8358/7218
DSN 645-8358/7218
E-Mail uit@logsa.army.mil

(3) Transactions may also be transceived by AUTODIN utilizing address routing indicator code RUQADUE with content indicator code AHAE.

4. Shipment of Repaired Items.

a. General: Upon completion of repair, the Contractor shall return the assets to the Government. Disposition may be prearranged for delivery to a specific depot with a provision for exception.

b. Material inspection and receiving report: The Contractor shall use DD Form 1348-1A DOD Single Line Item Release/Receipt

Document, for return of material. It is imperative that the Contractor, in completing the DD Form 1348-1A perpetuate the document number, serial number (and NSN, unless reidentified) from the incoming shipping document, DD Form 1348-1A. These return instructions must be complied with except when other modifying instructions are authorized by the ACALA. These exceptions will be handled on a case by case basis and the Contractor will be provided with amended shipping instructions, as required. Copies of all DD Forms 1348-1A shall be mailed to the Accountable Activity.

c. Shipment of Serial-Numbered Items.

(1) For each asset being shipped, three DIC BDA "S" transactions shall be prepared IAW DI-MISC-80923A.

(2) Perpetuate all data entries from the DIC BDA "R" transaction except the following:

CC 7 Transaction Code: Change to "S"
CC 76-80 Ordinal Date: Enter date of shipment.

(3) Distribution and submission media shall be in accordance with paragraph 3d above.

5. Report of Balance and/or Physical Inventory Count.

a. Balance by NSN: The Contractor shall report to the Government (Assigned Supply Distribution Activity (ASDA) or Management Control Activity (MCA) an NSN balance by contract in accordance with DI-MGMT-80442.

b. Discrepancies: Should balance reported differ from computed balance maintained by the Government DI-MGMT-80442 shall be utilized to provide results of the physical count directed by the contract administration officer.

(1) Gains resulting from subtracting the quantity recorded on Government records from the quantity physically inventoried will be posted to Government records by adjustment report by ACALA.

(2) Losses resulting from subtracting the quantity physically inventoried from the quantity recorded on Government records are subject to report of survey process. The Contracting Officer will effect a finding and determination will be included in the report of survey as an exhibit.

PRICING SHEET
(contractor must complete)

SERVICES: REFURBISHMENT OF CAMS
NSN: 6665-01-199-4153

ORDERING PERIOD	QUANTITY ORDER RANGE	UNIT PRICE
1	<u>Est Qty: 3600</u>	
	10 - 1000	\$ <input type="text"/>
	1001 - 3600	\$ <input type="text"/>
	<u>Est Qty: 3000</u>	
	10 - 1000	\$ <input type="text"/>
	1001 - 3600	\$ <input type="text"/>
	<u>Est Qty: 2600</u>	
	10 - 1000	\$ <input type="text"/>
	1001 - 3600	\$ <input type="text"/>
<u>Est Qty: 2500</u>		
10 - 1000	\$ <input type="text"/>	
	1001 - 3600	\$ <input type="text"/>

PRICE FOR THE REFURBISHMENT OF 11,700 CAMS + ALL FATS