

06 MAY 2003

SECTION C

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STATEMENT OF WORK  
FOR REPAIR OF THE  
AUTOMATIC FIRE CONTROL SYSTEM (AFCS)

Prepared by

TANK-AUTOMOTIVE & ARMAMENTS COMMAND - ROCK ISLAND

CENTER FOR FIELD ARTILLERY & MORTAR SYSTEMS

AMSTA-LC-CSFQ

1. SCOPE

This requirement pertains to repair of the Automatic Fire Control System.

2. APPLICABLE DOCUMENTS

2.1. Military Specifications.

MIL-DTL-12561802	Detail Specification, Display Unit: 12561802
MIL-PRF-12561697	Performance Specification, Control Panel: 12561697
MIL-PRF-12561743	Performance Specification, Power Conditioning Unit: 12561743
MIL-M-71074	Military Specification, Modem, Vehicle Motion Sensor: 12561737

2.2. Military Standards.

MIL-STD-129	Standard Practice for Military Marking
MIL-STD-2073-1	Standard Practice for Military Packaging

2.3. Industry/Commercial.

ANSI/ISO/ASQ Q9001-2000	Quality Management Systems - Requirements
ASTM-D3951-90	Standard Practice for Commercial Packaging

2.4. Regulations

FAR	Federal Acquisition Regulation
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2.5. Other.

DoD 4160-21-M-1	Defense Demilitarization Manual
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### 3. REQUIREMENTS

3.1 Major Item. Major assemblies and major components and circuit card assemblies/modules are:

MAJOR COMPONENT	CCA/MODULE	PN	NSN
Display Unit (DU)		12561802	7025-01-307-5519
Display Unit (DU) w/container		12927707-5	7025-01-411-1801
	DU Control Panel	12561697	1290-01-361-1350
	EL Display	12561708	5980-01-380-7624
Power Conditioning Unit (PCU)		12561743	6130-01-307-5527
PCU w/container		12927707-4	6130-01-412-3678
	PCU Access Cover	12561698	5340-01-362-1601
Vehicle Motion Sensor (VMS) Modem		12561737	5895-01-356-0205
	VMS Modem CCA	12561843	5998-01-355-7324

3.2. Scope. The contractor shall supply the necessary labor, parts, material, equipment, services, and, facilities needed to return any Government-owned AFCS to condition code A (serviceable -issuable without qualification) IAW the requirements contained herein.

3.3. Estimated quantities. The approximate repair quantities are as follows:

	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>
DU & DU w/container	30	30	30
DU Control Panel	3	3	3
EL Display	3	3	3
PCU & PCU w/container	30	30	30
PCU Access Cover	2	2	2
VMS Modem	30	30	30
VMS Modem CCA	2	2	2

3.4. Turn-ins. Government personnel in the field will examine a defective AFCS and ascertain whether it requires repair to be performed by the contractor. If necessary repairs warrant the return of an AFCS, it will be packed in a Government-approved container and forwarded to the contractor for repair. This Government-approved container shall also be used for return shipment of the AFCS. Any unserviceables will be forwarded to the contractor with the Tank-automotive and Armaments Command - Rock Island (TACOM-RI) document number W52H09.

3.5. Incoming Inspection. A Government representative will witness on-site inspection of the AFCS received at the contractor or subcontractor for repair.

3.6. Repairs. Repair of all systems shall be accomplished at the contractor or subcontractor site. The repair will include, as necessary, unpacking, disassembly, inspection, diagnosis, removal and replacement of subassemblies/component parts, reassembly, cosmetic work (when necessary to prevent further deterioration), calibration, final testing/inspection, and packing for shipment. Only parts equivalent to new in performance shall be used in effecting repairs.

3.7. Mandatory Replacement Parts. There are no mandatory replacement parts.

3.8 Maintenance Expenditure Limit (MEL). The contractor is authorized to start repair diagnosis immediately upon receipt of a unit with proper documentation, i.e. a TACOM-RI document number W52H09. Repair shall be made to any AFCS provided that the repair cost does not exceed the MEL - 75% of the current acquisition cost as follows:

DU	12,716	13,098	13,490
DU Control Panel	5,399	5,561	5,728
EL Display	12,303	12,672	13,052
PCU & PCU w/container	10,838	11,164	11,498
PCU Access Cover	2,568	2,664	2,743
VMS Modem	3,812	3,926	4,043
VMS Modem CCA	523	538	555

Any AFCS whose repair cost exceeds the MEL shall be retained by the contractor as Government-owned property until instructions are received from the Contracting Officer (CO) concerning repair or disposition. The contractor shall dispose of non-repairable items IAW applicable federal, state and local regulations when directed by the CO.

3.9. Demilitarization. Electronic components and assemblies that are beyond economical repair and that are coded with a demilitarization (DEMIL) code of "D" will be rendered unfit for their intended use in accordance with Defense Demilitarization Manual DoD 4160.21-M-1.

3.10. Turnaround Time. The contractor shall establish an average turnaround time of 60 days for repair of a unit. Turnaround time is defined as the time in days from receipt of a unit at the contractor's dock to the time it is ready for shipment.

3.11. Quality.

3.11.1. Quality Control. Imperfections such as scratches, blotches, or runs in the paint, and minor dents or nicks shall not be used as rejection criteria for repaired assemblies or components.

3.11.2. Acceptance. Acceptance will be based on requirements outlined in MIL-DTL-12561802, MIL-PRF-12561697, Drawing 12561710 revision D, MIL-PRF-12561743, and MIL-M-71074.

3.12. Deliverables.

3.12.1. Repair Reports. The contractor shall maintain records of repairs on all items sent in for repair during the life of the contract. This record shall consist of a report for each month to be prepared IAW Contract Data Requirements List (CDRL) (DD Form 1423) A001 (DI-ILSS-80386) and submitted as indicated in the CDRL. Any PN changes due to obsolescence (of parts replaced during the repair) shall be indicated in the report. For those reporting periods in which there are no inductions, cite: "No activity in this reporting period." Each AFCS stored temporarily due to part(s) shortage shall be listed by document number on the monthly report and annotated: "Temporarily stored due to repair part(s) shortage".

3.12.2. Accountability Requirements. Accountability requirements for normal repair of Army assets are described at Addendum I. Web-based Commercial Asset Visibility (CAV) will be used (requirements attached).

3.12.3. Performance and Cost Report. A Performance and Cost Report shall be delivered IAW Data Item No. A005 (DI-FNCL-80912).

3.13. Phaseout. Any AFCS may be returned to the contractor for repair for one year from time of contract award. The Government will allow a phaseout period for completion of contractor depot support of 60 days. This phaseout period will provide for:

- a. Completion of work in process.
- b. Transfer of Government accountable property to a Government facility.
- c. Delivery of monthly reports throughout the phaseout period.

## ADDENDUM I

### Accountability Instructions

1. The Government is required to retain property accountability for all assets being repaired upgraded, or modified. Therefore, applicable Army regulations rather than the Federal Acquisition Regulation (FAR) govern the practices and procedures necessary for recording receipts, discrepancies, inventories, adjustments, and shipments by the contractor.

2. Point of contact for accountability.

Associate Deputy, Commodity Business Operations  
Rock Island Site Manager  
ATTN: AMSTA-LC-CIAI  
Rock Island, IL 61299-7630  
Commercial Phone: 309-782-5291

3. Materiel 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 CDRL A002 (DI-MGMT-80442). Assets received shall be reported by NSN, quantity, condition code, document number, and serial number of receipt IAW CDRL A002. Reporting data may be obtained from DD Form 1348-1A, DOD Single Line Item Release/Receipt Document accompanying the receipt or from other documentation provided. If assets are received with a document number other than W52H09\_\_, contact the POC listed below for assignment of a document number prior to induction for repair, upgrade, or modification.

Associate Deputy, Commodity Business Operations  
Rock Island Site Manager  
ATTN: AMSTA-LC-CIMD  
Rock Island, IL 61299-7630  
Commercial Phone: 309-782-6396  
E-mail: noel@ria.army.mil

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 documents. A report of discrepancy shall be delivered IAW CDRL A003 (DI-MGMT-80554A).

(2) Shipping-type Discrepancy. This discrepancy is evident when freight is opened and the contents do not agree with the supply shipping documents. A report of discrepancy shall be delivered IAW CDRL A004 (DI-MGMT-80503).

c. Status of Repairable Assets. Status of repairable assets shall be provided by the Report of Receipts, Inventory, Adjustments and Shipments of Government Property, IAW CDRL A002.

4. Component Removal. Components that are removed from the item being repaired, upgraded, or modified and not reassembled to the repaired item shall be reported IAW CDRL A002.

5. Shipment of Repaired, Upgraded, or Modified Items.

a. General. Upon completion of repair, upgrade, or modification, the contractor shall return the asset to the following:

XU Transportation Officer  
DDSP New Cumberland Facility  
Building Mission Door 113 134  
New Cumberland, PA 17070-5001

b. Disposition. Disposition may be prearranged for delivery to a different location with a provision for exception.

See Microsoft Word document filename: CAV.doc for additional requirements.

SECTION D

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PACKAGING AND MARKING

1. Military preservation, packing and marking for each major component shall be packed Level A in accordance with the applicable Special Packaging Instructions and MIL-STD-2073-1.
  - 1.1. Unit pack quantity shall be one each.
  - 1.2. Unit package shall serve as Level A shipping container.
2. Each Circuit Card Assembly shall be packaged in accordance with applicable Special Packaging Instructions (SPI) and packed Level B in accordance with MIL-STD-2073-1.
  - 2.1. Unit pack quantity shall be one each.
3. Marking for all shall be in accordance with MIL-STD-129, "Standard Practice for Military Marking". In addition, mark each unit package with: "CONTRACTOR REPAIRED".
  - 3.1. Mark the shipping container for the Display Unit with: "NSN 7025-01-411-1801" and mark the shipping container for the Power Conditioning Unit with: "NSN 6130-01-412-3678."
4. Items returned to the Government that are not repairable shall be packaged in accordance with ASTM D3951. Marking shall be in accordance with MIL-STD-129. In addition, mark each unit package with: "CONTRACTOR RETURNED, ITEM NOT REPAIRABLE."

SECTION E

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INSPECTION AND ACCEPTANCE

The contractor shall establish and maintain an inspection system IAW ANSI/ISO/ASQ Q9001-2000 or a Government-approved system. Upon completion of repair work by the contractor or subcontractor, inspection and acceptance of repaired units will be made by Government quality assurance personnel by DD Form 250 at the contractor's (subcontractor's) plant or at the packaging facility. Quality Assurance standards applicable to this order are set forth in Section C - STATEMENT OF WORK.

OZONE DEPLETING CHEMICAL (ODC) STATEMENT

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There are no requirements for the use of ODCs in this SOW.

DOCUMENT SUMMARY LIST

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 System/Item: Repair of the Automatic Fire Control System (AFCS)  
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Identifies all first tier documents (cited in SOW)(applicable Data Item Description (DID)). Also included are all referenced documents (2nd (includes DID block 10 references), 3rd and lower tier which have been tailored.

DOCUMENT CATEGORY:

CATEGORY 1 - The requirements contained in the directly cited document are contractually applicable to the extent specified. Unless otherwise specified in the solicitation, contract, or contract modifications, all requirements contained in reference and subsequently referenced documents are contractually for guidance and information only.

CATEGORY 2 - The requirements contained in the directly cited document and the referenced documents identified in the directly cited document are contractually applicable to the extent specified. Unless otherwise specified in the solicitation, contract, or contract modifications, all requirements contained in subsequently referenced documents within reference documents are contractually for guidance and information only.

CATEGORY 3 - Unless otherwise specified in the solicitation, contract, or contract modifications, 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 Category	Document Title	Document Date/ Document
----- 1. DoD 4160-21-M-1 (Sec C, para 3.9.)	Defense Demilitarization Manual	21 Oct 1991 Cat 2
----- 2a. N/A (Section C, para 3.12.1.)	Statement of Work	N/A Cat 2
2b. DI-MGMT-80386 (Data Item No. A001)	Repairable Item Inspection Report	27 Jul 1987 Cat 1
----- 3. FAR PART 45 (Accountability Instructions para 1.)	Federal Acquisition Regulation	01 Apr 1984 Cat 2
----- 4a. N/A (Addendum I, paras 3.a., 3.c., 4., 8.a., 8.b.)	Statement of Work	N/A Cat 2
4b. DI-MGMT-80442 (Data Item No. A002)	Report of Receipts, Inventory, Adjustments and Shipments of Government Property	17 Sep 1987 Cat 1
----- 5a. N/A	Statement of Work	N/A

(Addendum I, para 3.b.(1))

Cat 2

5b. DI-MGMT-80554A  
(Data Item No. A003)

Transportation Discrepancy Report

08 Nov 1990

Cat 1

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CONTRACT DATA REQUIREMENTS LIST  
DD FORM 1423 (MECHANIZED)

CATEGORY: MISC      SYSTEM/ITEM: Automatic Fire Control System  
TO CONTRACT/PR:

1. Data Item No:
2. Title Of Data Item:
3. Subtitle:
4. Authority:
5. Contract Reference:
6. Requiring Office:
7. DD250 Required:
8. APP Code:
9. Distribution Statement Required:
10. Frequency:
11. As Of Date:
12. Date of 1st Submission:
13. Date of Subsequent Submission:
14. Distribution    A. Addressees    B. Draft Final
15. Total:
16. Remarks:

- 
1. A001
  2. REPAIRABLE ITEM INSPECTION REPORT
  - 3.
  4. DI-MGMT-80386
  5. Section C, paragraph 3.12.1.
  6. AMSTA-LC-CFSQ
  7. NO
  - 8.
  9. N/A
  10. ASREQ
  11. ASREQ
  12. See block 16.
  13. See block 16.
  14. AMSTA-LC-CFSQ, AMSTA-DSA-PF
  - 15.
  16. All data/reports to be submitted electronically utilizing e-mail with attachments of MSWORD or MICROSOFT EXCEL. If unable to e-mail, reports are to be submitted on 3 1/2-inch 1.44m floppy disks.

SUBMISSION REQUIRED MONTHLY.

E-MAIL:

[angelosm@ria.army.mil](mailto:angelosm@ria.army.mil)  
[khurban@pica.army.mil](mailto:khurban@pica.army.mil)

PREPARED BY	DATE	APPROVED BY	DATE
Michael C. Angelos	31 March 2003		

CONTRACT DATA REQUIREMENTS LIST  
DD FORM 1423 (MECHANIZED)

CATEGORY: MISC      SYSTEM/ITEM: Automatic Fire Control System  
TO CONTRACT/PR:

1. Data Item No:
2. Title Of Data Item:
3. Subtitle:
4. Authority:
5. Contract Reference:
6. Requiring Office:
7. DD250 Required:
8. APP Code:
9. Distribution Statement Required:
10. Frequency:
11. As Of Date:
12. Date of 1st Submission:
13. Date of Subsequent Submission:
14. Distribution    A. Addressees    B. Draft Final
15. Total:
16. Remarks:

- 
1. A002
  2. REPORT OF RECEIPTS, INVENTORY ADJUSTMENTS AND SHIPMENTS OF GOVERNMENT PROPERTY
  - 3.
  4. DI-MGMT-80442
  5. Section C, Addendum I, paragraphs 3.a., 3.c., 4., 8.a., 8.b.
  6. AMSTA-LC-CIA
  7. NO
  - 8.
  9. N/A
  10. ASREQ
  11. ASREQ
  12. See block 16.
  13. See block 16.
  14. AMSTA-LC-CIM-D
  - 15.
  16. 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 1/2-inch 1.44m floppy disks.

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

SUBMISSION REQUIRED MONTHLY ONLY WHEN MATERIAL IS ON HAND.

E-MAIL:  
[noel@ria.army.mil](mailto:noel@ria.army.mil)

PREPARED BY	DATE	APPROVED BY	DATE
Michael C. Angelos	31 March 2003		

## CONTRACT DATA REQUIREMENTS LIST

DD FORM 1423 (MECHANIZED)

CATEGORY: MISC SYSTEM/ITEM: Automatic Fire Control System  
 TO CONTRACT/PR:

1. Data Item No:
2. Title Of Data Item:
3. Subtitle:
4. Authority:
5. Contract Reference:
6. Requiring Office:
7. DD250 Required:
8. APP Code:
9. Distribution Statement Required:
10. Frequency:
11. As Of Date:
12. Date of 1st Submission:
13. Date of Subsequent Submission:
14. Distribution A. Addressees B. Draft Final
15. Total:
16. Remarks:

- 
1. A003
  2. TRANSPORTATION DISCREPANCY REPORT
  - 3.
  4. DI-MGMT-80554A
  5. Section C, Addendum I, paragraph 3.b.(1)
  6. AMSTA-LC-CIA
  7. NO
  - 8.
  9. N/A
  10. ASREQ
  11. ASREQ
  12. See Block 16.
  - 13.
  14. AMSTA-LC-CIAT
  - 15.
  16. 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 1/2-inch 1.44m floppy disks.

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

SUBMISSION REQUIRED UPON DISCOVERY OF TRANSPORTATION DISCREPANCY WHEN MATERIEL IS RECEIVED AT CONTRACTOR'S FACILITY.

E-MAIL:  
[mosleya@tacom.army.mil](mailto:mosleya@tacom.army.mil)

PREPARED BY

DATE

APPROVED BY

DATE



CONTRACT DATA REQUIREMENTS LIST  
DD FORM 1423 (MECHANIZED)

CATEGORY: MISC      SYSTEM/ITEM: Automatic Fire Control System  
TO CONTRACT/PR:

1. Data Item No:
2. Title Of Data Item:
3. Subtitle:
4. Authority:
5. Contract Reference:
6. Requiring Office:
7. DD250 Required:
8. APP Code:
9. Distribution Statement Required:
10. Frequency:
11. As Of Date:
12. Date of 1st Submission:
13. Date of Subsequent Submission:
14. Distribution    A. Addressees    B. Draft Final
15. Total:
16. Remarks:

- 
1. A005
  2. PERFORMANCE AND COST REPORT
  - 3.
  4. DI-FNCL-80912
  5. Section C, paragraph 3.12.3.
  6. AMSTA-LC-CFAB
  7. LT
  - 8.
  9. N/A
  10. MTHLY
  - 11.
  - 12.
  - 13.
  14. AMSTA-LC-CFAB, DCMC - Twin Cities
  - 15.
  16. All reports to be submitted electronically utilizing e-mail with attachments of MSWORD or MICROSOFT EXCEL. If unable to e-mail, reports are to be submitted on 3 1/2-inch 1.44m floppy disks.

E-MAIL:

[warnerk@ria.army.mil](mailto:warnerk@ria.army.mil)  
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PREPARED BY

DATE

APPROVED BY

DATE

Michael C. Angelos

31 March 2003

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