

26 November 2002

SECTION C  
STATEMENT OF WORK  
FOR ACQUISITION OF THE  
MUZZLE VELOCITY SYSTEM (MVS)  
AND MVS COMMUNICATION ADAPTER (MCA)

Prepared by  
TANK-AUTOMOTIVE & ARMAMENTS COMMAND - ROCK ISLAND  
CENTER FOR FIELD ARTILLERY & MORTAR SYSTEMS  
AMSTA-LC-CSFQ

1. SCOPE. This requirement pertains to acquisition of the M94 Conventional MVS, the MCA, and acquisition and retrofit of the M93 - Upgraded Paladin MVS.

2. APPLICABLE DOCUMENTS.

2.1. Military Specifications.

PRF13002074	Performance Specification for the M93 Muzzle Velocity System Transceiver
FSS-SS-0002-SRS Appendix H	Interface Requirements Specification For Battery Computer System and M94, 4 January 1991 Rev. F: 30 June 1999

2.2. Military Standards.

MIL-STD-129	Standard Practice for Military Marking
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2.3. Industry/Commercial.

ISO 9001	Quality Systems - Model for quality assurance in design, development, production, installation and servicing
ANSI/ISO/ASQ Q9001-2000	Quality Management Systems - Requirements
ASTM D 3951-98	Standard Practice for Commercial Packaging
EIA/IS-649	National Consensus Standard for Configuration Management

2.4. Regulations.

None.

2.5. Other.

FSF PD-01	Purchase Description - U.S. Army ARDEC, MVS, 21 December 1993
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3. PRODUCT REQUIREMENTS. The contractor shall produce the M93 - Upgraded and M94 Muzzle Velocity Systems (MVS) and MVS Communication Adapters (MCA):

a. M94 MVS	12950994	1290-01-412-5760
b. M93 MVS - Upgraded	13002074	TBD
c. MCA	11838876	1290-01-468-6533

3.1. Configuration Management (CM).

3.1.1. CM Program. The contractor shall have a configuration management program/process, based on EIA/IS-649, National Consensus Standard for Configuration Management, or equivalent, to: (1) identify and document the MVS/MCA functional, performance, and physical attributes, (2) control changes to configuration items and their related documentation, (3) record and report information needed to manage configuration items effectively, including the status of proposed changes and implementation of approved changes, and (4) audit configuration items to verify conformance to specifications, drawings, an interface control documents. The contractor's configuration management program/process will be used to manage both the hardware and software components comprising the MVS/MCA. Included in the MVS/MCA hardware and software components are the acceptance inspection equipment (AIE) listed in paragraph 3.2.2.

3.1.2. Class I ECPs. Proposed Class I engineering changes as defined in paragraph 3.2.3 (DI-CMAN-80639C) CDRL A001 for Engineering Change Proposals (ECP)) or Major Deviations as defined in paragraph 3.2.3 (DI-CMAN-80640C) CDRL A002 for Request for Deviations (RFD)) will be documented and submitted to the Government for approval prior to implementation. Receipt of contractual authorization shall constitute the sole authority for the contractor to effect changes that require Government approval. The contractor shall control and maintain the product baseline using the contractor's configuration management system and process. The contractor will certify the product baseline documentation to be accurate. The Government reserves the right to review the contractor's product baseline documentation and configuration management system at any time.

3.1.3. Engineering Change Proposals (ECP), Value Engineering Change Proposals (VECP), Request for Deviations (RFD). The contractor may submit ECP/VECPs IAW CDRL A001 (DI-CMAN-80639C), and RFDs IAW CDRL A002 (DI-CMAN-80640C). Any submittals shall describe, define and justify all proposed changes and should include a Notice of Revision (NOR) IAW A003 (DI-CMAN- 80642C). Receipt of contractual authorization shall constitute the sole authority for the contractor to effect changes or deviations.

3.2. Quality.

3.2.1. Quality Program. The contractor shall establish and maintain an inspection system IAW ISO 9001 or ANSI/ISO/ASQ Q9001-2000.

3.2.2. Acceptance Inspection Equipment (AIE). The contractor shall maintain any AIE design updates for inspection of the MVS. The AIE for the M94 MVS is as follows:

ITEM DESCRIPTION	ATP	AIE
MVS, Conventional, M94	TBD	TBD
CCA, MVP	TP6707986-0	AY6708006-0
Transceiver Unit	TP6708056-0	AY6708043-0
Power Supply Module (Transceiver)	TP6707903-0	AY6707943-0
Doppler Amplifier CCA	TP6708027-0	AY6708018-0
Power Supply Module (CPDU)	TP6707953-0	AY6707951-0
Simulator, Radar Signal	TP6708092-0	AY6708048-0
CPDU	TP6708038-0	AY6708009-0
Keyboard Assembly	TP6707902-0	AY6707957-0
Front Panel Assembly	TP6707995-0	AY6707990-0
CPDU Tester		AY6708009-0
Keyboard Tester		AY6707957-0
Power and Data Cable Tester		AY6707984-0

The AIE for the M93 MVS is as follows:

ITEM DESCRIPTION	ATP	AIE
MVS, Paladin, M93 – Upgraded	TP6707848-0	TBD
CCA, MVP	TP67015518	AY6708xxx-0
Transceiver Unit	TP6708056-0	AY6708xxx-0
Doppler Amplifier CCA	TP6708027-0	AY6708xxx-0
Power Supply Module	TP6707903-0	AY6707xxx-0
Trigger Mechanism (Transceiver)	TP67015521	AY
Microphone Trigger CCA	TP67015019	AY
1553	TP	AY

The AIE for the MCA is as follows:

ITEM DESCRIPTION	ATP	AIE
MCA	TP20412152	AY20412269
MCA CPU CCA	TP20412143	AY20412269

3.2.3. Acceptance. Acceptance will be based on PRF13002074 (M93), FSF PD-01 (M94), FSS-SS-0002-SRS, Appendix H, Interface Requirements Specification For Battery Computer System and M94 (MCA), and requirements outlined in the Acceptance Test Procedures (ATP) listed in paragraph 3.2.2. This acceptance does not constitute a waiver for any requirements of PRF12979004 for the M93 MVS. Upon completion of repair work by the contractor or subcontractor, inspection and acceptance of repaired units will be made on-site by Government quality assurance personnel via a DD Form 250. This form shall state that the item passed the acceptance test procedure and shall accompany all repaired MVS/component parts returned to the Government.

3.3. M93 to M93 - Upgraded Retrofit.

3.3.1. Name Plate. The contractor shall replace the current Name Plate with PN 13002075 reflecting:

“TRANSCIEVER ASSEMBLY”  
 “M93 - UPGRADED MUZZLE VELOCITY SYSTEM”  
 “NSN [TBD]”  
 “PART NO. 19200-13002074”  
 “CONTRACT NO. [TBD]”  
 “SERIAL NO. [TBD]”

3.3.2. Integrated Doppler Simulator (IDS). The contractor shall apply the Integrated Doppler Simulator (reference 0310-ECP-0107) to the 243 each M93 Transceivers, PN: AY6707292-0, delivered to the U.S. Army from 11/17/95 through 7/31/97, as listed in the Ariel Koblenz RSL Letter dated April 3, 2000. (Attached).

3.3.3. Muzzle Velocity Processor (MVP) CCA.

3.3.3.1. MIL-STD-1553 Voltage Regulated Bus Driver. The contractor shall identify the type of bus driver in the unit to be modified as part of the ATP. The contractor shall also ensure that all MIL-STD-1553 current regulated bus drivers on the MVP CCAs are replaced with MIL-STD-1553 voltage regulated bus drivers. (Aeroflex PN CT2577N-10-XT-P119-2)

3.3.3.2. MVP CCA Production. The contractor shall produce MVP CCAs IAW ECPs 2P3000 and H2P2001.

3.3.4. Cable W93A Transformer. The contractor shall use Technotrol PN 1553-20 on all new production W93A cables (PN 12991852, NSN 6150-01-475-4290).

3.4. Packaging/Marking.

3.4.1. All circuit card assemblies: Preserve by Method 41 MIL-STD-2073-1D as follows: Items subject to damage by electromagnetic and electrostatic field forces shall be initially wrapped in material conforming to MIL-PRF-81705, Type II or Type III, or cushioned in material conforming to A-A-3129, Type I, Grade B, or PPP-C-795, Class 2 or A-A-59135, Class 1, Grade B, or PPP-C-1797, Type II, to prevent bag puncture, and unit packed in a heat sealed bag conforming to MIL-DTL-117, Type I, Class F, Style 1. Reclosable cushioned pouches conforming to MIL-P-81997, Type I or II, may be used in lieu of initial wrap or cushioning. Lead or terminal configurations for all items shall be maintained as manufactured without causing loads or stresses capable of causing damage to the item. Materials used to maintain item position and lead terminal configuration shall permit item removal without damage to the item. Place bagged item into a PPP-B-1672 Type II container. Seal with two bands of nylon reinforced tape girthwise around the container.

3.4.1.1. Marking. Marking shall be in accordance with MIL-STD-129. Electrostatic discharge sensitive caution labels shall also be applied in accordance with MIL-STD-129. Mark "REUSABLE CONTAINER" on two sides of the container. Also, mark on all packages "CONTRACTOR REPAIRED".

3.4.2. The M94 MVS and MCA shall be packaged in their transit cases. Transit cases shall be repaired/replaced as needed.

3.4.2.1. Marking shall be in accordance with MIL-STD-129. Mark "REUSABLE CONTAINER" on two sides of transit case. Also, mark on all packages "CONTRACTOR REPAIRED".

3.4.3. Cable assemblies shall be coiled secured and packaged Method 31 of MIL-STD-2073-1D.

3.4.3.1. Marking shall be in accordance with MIL-STD-129. Also, mark on all packages "CONTRACTOR REPAIRED".

3.4.4. All other Items: Packaging shall be in accordance with ASTM D 3951 and have successfully passed test levels of ASTM D 4169, Distribution Cycle 18, Assurance Level I, Acceptance Criterion 1 and 2. The temperate high humidity atmosphere conditions of ASTM D 4332 shall be used for element I of ASTM D4169. The warehouse stacking height shall be 16 ft. The shipping unit shall be the unit pack. Testing shall be witnessed by the Government Quality Assurance Representative. The Contractor is exempted from testing if other data can be provided (see para. 5.6 of MIL-STD-2073-1D) and is acceptable to the Government. Similar items do not require retesting. ESD sensitive materials shall be used where applicable. Packaged gross weight and size shall be included on the test report as well as a detailed description of the packaging and shall be provided to the Contracting Officer. Weight and size data shall also be provided for the other items of D1, D2 and D3.

3.4.4.1. Marking shall be in accordance with MIL-STD-129. Also, mark on all packages "CONTRACTOR REPAIRED".

### 3.5. Technical Manuals (TM).

3.5.1. Changes. The contractor shall deliver changes to TM 9-1290-365-24&P, dated 31 Oct 2000, resulting from execution of this SOW IAW CDRL A004 (DI-TMSS-80527A). Resulting changes (indicated as "Change 1") shall be delivered IAW the attached 'Extract from MIL-STD-40051A (TM).' Changes shall be in proper sequence using illustrations, point (.) pages and paragraphs. The basic TM incorporating Change 1 shall be delivered IAW CDRL A004.

MIL-HDBK-1221 is for reference only.

3.5.2. Validation/Verification (Val/Ver). The contractor shall perform a combined validation/verification of changes to the technical manual resulting from software changes necessitated by this statement of work. The VAL/VER shall be performed at the contractor's facility (Borisch Manufacturing) in Grand Rapids, Michigan to ensure that all necessary changes affecting text and screens are incorporated into the TM. The contractor shall notify the Government of the scheduled Val/Ver in order for Government personnel to participate in the process. The contractor shall maintain a record of any discrepancies noted during the Val/Ver, with copies provided to the government for purposes of ensuring that the contractor makes necessary corrections to the final document prior to acceptance by the Government. The contractor shall then make the necessary corrections and provide the final copy IAW CDRL A004.

Changes include, but are not limited to:

1. PN AY6707292-0/1/2 on the following pages: IV, VI, D-1, D-7, D-10, D-11, D-12, D-14, D-15, D-16, D-17, D-19, D-20, D-21, D-23, D-24, D-25, D-26, D-36, D-83, D-84, D-113.
2. PN AY6707288-0/1/AY67010314: IV, V, VI, VII, B-6, C-9, C2-1, FIG C-7 (4 pages), C7-1, I-6, PN 12979002: ii, V, 1-2, 1-21, 1-22, 3-1, 3-33, B-5, C-9, C1-1, FIG C-2 (3 pages), I-14.
3. Remove Margaret Emmert as POC: page 3-5.
4. PN 12970995: COVER, COVER PAGE, V, B-5, C1-1.
5. Acceleration Switch: page 1-19, C7-2, D-43, D-44, D-83, D-84, D-86, D-90, D-93, D-94, D-95, D-99, D101, D-102, D-104.
6. MVP Schematic Drawing: page FO-3.
7. Correct 'Address for Shipping', page 3-33:

Borisch Manufacturing Corp.  
4511 E. Paris Ave. SE  
Grand Rapids, MI 49512-5314  
DODAC: CMANJX  
RIC: CTN

Extract from MIL- STD-40051A (TM)

4.10. Changes. When updates to technical manuals are ordered the deliverable product shall be changed pages or a complete revision of the TM.

4.10.1. Changes for page-based TMs. A change is used to incorporate appropriate new information (for example, MAC changes, Modification Work Orders (MWO), engineering drawing changes, DA Forms 2028, etc.) into the basic TM (or previous edition) or clarifies, corrects, or improves existing information in the TM. The change will be written in the same style and format as the basic manual.

4.10.1.1. Changes. Changes shall consist of a change transmittal page and the applicable change pages. For the content and format of a change transmittal page:

- a. Each change to a TM shall be numbered in sequence beginning with 1.
- b. Front matter, and rear matter change pages shall conform to the style and format of the basic TM and shall incorporate all approved information.
- c. Changes to front and rear matter pages and all pages of a change shall include the applicable change number located on the outer edge of the page opposite the binding side.

4.10.1.2. [Deleted]

4.10.1.3. Changed front and rear matter pages. When updates to the front and rear matter of a TM are required, only the effected pages shall be revised and reissued. Copy shall be prepared for both sides of the printed page on which an update is made, even when an update is made to one side only.

4.10.1.4. Change symbols. Change symbols shall be inserted to identify technical updates in text, illustrations and tables.

- a. Updates to the text and tables shall be indicated by a vertical line (change bar) opposite the updated, deleted, or added text (except as noted below). The change bar shall be placed in the margin opposite the binding edge.
- b. When tables are updated or added, the change bar shall also be placed to the left of the table number and title.
- c. The method(s) used shall be explained in the change transmittal page.
- d. Change symbols from a previous change shall be deleted when a page is subsequently updated. Symbols shall show current updates only.
- e. [Deleted]
- f. Change symbols are not required for the following.

- (1) Indexes and tabular data where the update cannot be identified.
- (2) Blank space resulting from the deletion of text, an illustration, part of an illustration, or a table.
- (3) Correction of minor inaccuracies, such as spelling, punctuation, relocation of material, renumbering, etc., unless such correction changes the meaning of the information.

4.10.1.5. Change symbols for illustrations. A miniature pointing hand shall be used for illustrations (other than diagrams and schematics) to highlight the area containing the changed information.

- a. Changes confined to the same general area shall be indicated only once on the illustration.
- b. A vertical line next to changed text and callouts on illustrations may be used in lieu of a pointing hand.
- c. A vertical line next to changed material may be used on a chart or graph.

## DOCUMENT SUMMARY LIST

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 System/Item: Muzzle Velocity System (MVS) and MVS Communication Adapter (MCA)  
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Identifies all first tier documents (cited in SOW)(applicable Data Item Descriptions (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	Document Title	Document Date/ Document Category
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1. ANSI/EIA-649-1998 (Sec C, para 3.1.1.)	National Consensus Standard for Configuration Management	Aug 1998 Cat 2
1.a. DI-CMAN-80639C (Data Item No. A001)	Engineering Change Proposal (ECP)	30 Sep 2000 Cat 1
1.b. DI-CMAN-80640C (Data Item No. A002)	Request for Deviation (RFD)	30 Sep 2000 Cat 1
1.c. DI-CMAN-80642C (Data Item No. A003)	Notice of Revision (NOR)	30 Sep 2000 Cat 1
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2. ISO 9001 (Sec C, para 3.2.1.)	Quality Systems - Model for QA in Design, Development, Production, Installation and Servicing	1994
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3. ANSI/ISO/ASQ Q9001-2000 (Sec C, para 3.2.1.)	Quality Management Systems - Requirements	13 Dec 2000
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4. ASTM D 3951-98 (Sec C, para 3.5.)	Standard Practice for Commercial Packaging	Jan 1999
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5. MIL-STD-129N (Sec C, para 3.5)	Standard Practice for Military Marking	15 May 1997
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DOCUMENT SUMMARY LIST

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System/Item: Muzzle Velocity System (MVS) and MVS Communication Adapter (MCA)  
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- |  |  |                      |
|--|--|----------------------|
| 6. PRF13002074<br>(Sec C, para 3.2.3.)                 | Performance Specification for<br>the M93 Muzzle Velocity System                                    | 2002<br>Cat 2        |
| 7. FSS-SS-0002-SRS, Appendix H<br>(Sec C, para 3.2.3.) | Interface Requirements Specification For Battery<br>Computer System and M94, 4 January 1991 Rev. F | 30 Jun 1999<br>Cat 2 |
| 8. FSF PD-01<br>(Sec C, para 3.2.3.)                   | Purchase Description - U.S. Army ARDEC, MVS  | 21 Dec 1993<br>Cat 2 |
| 9a. MIL-HDBK-1221<br>(Sec C, para 3.5.)                | Department of Defense Handbook for<br>Evaluation of Commercial Off-the-Shelf<br>Manuals            | 28 Aug 1995<br>Cat 2 |
| 9b. DI-TMSS-80527A<br>(Data Item No. A004)             | Commercial Off-the-Shelf (COTS) Manual and<br>Associated Supplemental Data                         | 21 May 1997<br>Cat 1 |

MIL-HDBK-1221 is for reference only.  
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CONTRACT DATA REQUIREMENTS LIST

DD FORM 1423 (MECHANIZED)

CATEGORY: MISC SYSTEM/ITEM: MVS/MCA

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. ENGINEERING CHANGE PROPOSAL (ECP)
  - 3.
  4. DI-CMAN-80639C (See block 16.\*)
  5. Section C, paragraph 3.1.3.
  6. AMSTA-AR-QAW
  7. LT
  - 8.
  9. See block 16.\*\*
  10. ASREQ
  - 11.
  12. ASREQ
  13. ASREQ
  14. See block 16.\*\*\*
  - 15.
  - 16.

\*Delete paragraph 2 of DID. See attached Data Delivery Description - Engineering Change Proposal (ECP) for content. Contractor format is acceptable.

\*\*Distribution Statement will be assigned and implemented by the DOD configuration manager.

\*\*\*Data to be submitted as e-mail attachments in Microsoft Word with total file size less than 7MB. The forms (DD FORMS 1692, 1694 and 1695) located at <http://w4.pica.army.mil/ardec-ri/cmform.htm> are the preferred method of submission for this data item.

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

PREPARED BY	DATE	APPROVED BY	DATE
Michael C. Angelos	21 Nov 2002		

CONTRACT DATA REQUIREMENTS LIST

DD FORM 1423 (MECHANIZED)

CATEGORY: MISC SYSTEM/ITEM: MVS/MCA

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. REQUEST FOR DEVIATION (RFD)
  - 3.
  4. DI-CMAN-80640C (See block 16.\*)
  5. Section C, paragraph 3.1.3.
  6. AMSTA-AR-QAW
  7. LT
  - 8.
  9. See block 16.\*\*
  10. ASREQ
  - 11.
  12. ASREQ
  13. ASREQ
  14. See block 16.\*\*\*
  - 15.
  - 16.

\*Delete paragraph 2 of DID. See attached Data Delivery Description - Request for Deviation (RFD) for content. Adequate data/analysis/ testing to support the position relative to paragraphs 24 and 25 of Data Delivery Description shall be included. Contractor format is acceptable.

\*\*Distribution Statement will be assigned and implemented by the DOD configuration manager.

\*\*\*Data to be submitted as e-mail attachments in Microsoft Word with total file size less than 7MB. The forms (DD FORMS 1692, 1694 and 1695) located at <http://w4.pica.army.mil/ardec-ri/cmform.htm> are the preferred method of submission for this data item.

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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. NOTICE OF REVISION (NOR)
  - 3.
  4. DI-CMAN-80642C (See block 16.\*)
  5. Section C, paragraph 3.1.3.
  6. AMSTA-AR-QAW
  7. LT
  - 8.
  9. See block 16. \*\*
  10. ASREQ
  - 11.
  12. ASREQ
  13. ASREQ
  14. See block 16.\*\*\*
  - 15.
  - 16.

\*Delete paragraph 2 of DID. See attached Data Delivery Description - Notice of Revision (NOR) for content. Contractor format is acceptable.

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

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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. A004
  2. COMMERCIAL OFF-THE-SHELF (COTS) MANUAL AND ASSOCIATED SUPPLEMENTAL DATA
  - 3.
  4. DI-TMSS-80527A
  5. Section C, paragraph 3.5.
  6. AMSTA-LC-CFTC
  7. NO
  - 8.
  9. N/A
  - 10.
  - 11.
  12. See block 16.
  - 13.
  14. AMSTA-LC-CFTL, AMSTA-LC-CFTC
  - 15.
  16. Change 1 to be submitted as e-mail attachment in Microsoft Word (.doc format) and basic manual incorporating Change 1 as e-mail attachment in Adobe Acrobat Portable Document Format (.pdf format).

Required changes identified during Val/Ver shall be incorporated and delivered 30 days after Val/Ver.

E-MAIL: [frenchd@ria.army.mil](mailto:frenchd@ria.army.mil); [reynoldsw@ria.army.mil](mailto:reynoldsw@ria.army.mil)

Quantity 5 hard copies shall be delivered to the following addressee:

TACOM-RI  
ATTN: AMSTA-LC-CFTL (Deneen French)  
Rock Island, IL 61299-7630

PREPARED BY	DATE	APPROVED BY	DATE
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Michael C. Angelos	21 Nov 2002		
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