

SOW-00-837-1-08982A-2/1
OCTOBER 1999

STATEMENT OF WORK
FOR THE
MINE CLEARANCE LAUNCHER
MK 155
NSN 1055-01-203-5883
Inspect Repair Only As Necessary
(IROAN)

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STATEMENT OF WORK FOR THE
MINE CLEARANCE LAUNCHER **MK 155**
Inspect Repair Only As Necessary (IROAN)

1.0 SCOPE. This Statement of Work (SOW) establishes and sets forth tasks and identifies the work efforts that shall be performed by the Contractor in the IROAN effort of the **MK 155 MOD 0, Mine Clearance Launcher**, which is comprised of the **Mod 0 Launcher** and the **M353 Trailer**, hereafter referred to as the **MK 155**. These documents contain requirements to restore the **MK 155** to Condition Code "A." Condition Code A is defined as "serviceable/issuable without qualification, new, used, repaired or reconditioned materiel which is serviceable and issuable to all customers without limitation or restriction. Includes materiel with more than 6 months shelf-life remaining." National Stock Number (NSN) **1055-01-203-5883** shall be known as the **MK 155**.

1.1 Background. IROAN is defined as "That maintenance technique which determines the minimum repairs necessary to restore equipment components or assemblies to prescribed maintenance serviceability standards by utilizing all available diagnostic equipment and test procedures in order to minimize disassembly and parts replacement."

2.0 APPLICABLE DOCUMENTS. The following documents form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

2.1 MILITARY SPECIFICATIONS

- MIL-C-46168 - Coating, Aliphatic Polyurethane, Chemical Agent Resistant.
- MIL-C-53039 - Coating, Aliphatic Polyurethane, Single Component, Chemical Agent Resistant.

2.2 MILITARY STANDARDS.

- MIL-STD-129 - DoD Standard Practice for Military Marking
- MIL-STD-130 - DoD Identification Marking of US. Military Property
- MIL-STD-461 - Electromagnetic Emission and Susceptibility Requirements for the Control of Electromagnetic Interference.
- MIL-STD-2073-1C - DoD Standard Practice for Military Packaging

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MILITARY STANDARDS (Guidance Only)

MIL-STD-973 - Configuration Management

2.3 Other Government Documents and Publications. The following other Government documents, and publications form a part of this SOW to the extent specified herein.

DOD 4000.25-1-M - MILSTRIP Manual

NAVICPINST 4491.2A - Requisitioning of Contractor Furnished Material
From The Federal Supply System

DODD 4160.21-M-1 - Defense Demilitarization Manual.

TM 08982A-14&P/2B - MK 2 MOD 0 Mine Clearance System.

TM 3080-12 - Corrosion Prevention and Control for Marine Corps Equipment.

TM 3080-50 - Corrosion Control Procedures Depot Maintenance Activities for
Marine Corps Equipment.

TM 4700-15/1H - Ground Equipment Record Procedures.

TM 4750-15/1 - Painting and Registration Marking for Marine Corps Combat and
Tactical Equipment.

TM 4750-15/2 - Camouflage Paint Patterns.

ENGINEERING DRAWINGS

Marine Corps

82A5052A0000 - Launcher, Mine Clearance, MK 155 Mod 0.

2.4 Industry Standards.

ANSI/ISO/ASQC Q9002-1994 - Quality Systems-Model for Quality Assurance in
Production, Installation, and Servicing

Copies of Military Specifications and Standards are available from the Naval Publications and Forms Center, (ATTN: NPODS), 5801 Tabor Avenue, Philadelphia, PA 19120-5099. Copies of other government documents and publications required by contractors in connection with specific SOW requirements shall be obtained through the Contracting Officer: Commander, Attn: Contracting Officer (Code 891) Marine Corps Logistics Bases, 814 Radford Blvd.,

Albany, Georgia 31704-1128, commercial telephone number (912) 439-6761 or DSN 567-6761. Copies of engineering drawings, if applicable, shall be obtained from Life Cycle Management Center, Attn: Code 825-3, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320, commercial telephone number (912) 439-6410 or DSN 567-6410.

3.0 REQUIREMENTS

3.1 General Tasks. In fulfilling the specified requirements, the Contractor shall:

a. Provide materials, labor, facilities, missing parts, and repair parts necessary to inspect, diagnose, restore, and test the **MK 155**. Upon completion of IROAN, repaired equipment shall be Condition Code "A".

b. Provide all tools and test equipment required to test, inspect, repair, and calibrate the **MK 155**.

c. Conduct in-process and final on-site testing for witness by an MCLB, Albany, representative.

d. Be responsible for all structural, electrical and mechanical requirements associated with the restoration of the **MK 155**.

3.2 Detail Tasks. The following tasks describe the different phases for IROAN of the **MK 155**.

3.2.1 Phase I - Pre-induction. A pre-induction inspection analysis shall be performed for each **MK 155** using the Contractor's diagnosis, inspection and testing techniques to determine extent of work and parts required. This inspection shall included all items associated with the **MK 155** as found in TM 08982A-14&P/2B. These findings shall be annotated on a Pre-Induction Check list that shall become an appendix to this SOW and shall be provided to the government in accordance with Section 4.0 of this SOW.

3.2.2 Phase II - IROAN. After pre-induction tests and inspections have been completed, repair of the **MK 155** shall be accomplished in accordance with this SOW. Deficiencies noted on the Pre-Induction Checklist during Phase I shall be repaired/replaced. Components or assemblies shall not be disassembled for replacement of mandatory parts unless that part has failed, or the component assembly wherein the part is located is disassembled for repair.

a. Inspection Report - Information recorded on the Inspection Report shall be used as a guide to repair the **MK 155** system in accordance with this SOW.

b. Technical Instruction (TI) - All TI's not previously applied to the **MK 155** shall be applied during the IROAN and shall be annotated on Equipment Record Jacket in accordance with TM 4700-15/1H.

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- c. Corrosion - For corrosion prevention and treatment use TM 3080-12 and TM 3080-50.
- d. Fluid Leaks - The following shall be used as a guide in determining degree of fluid loss:
 - (1) Class I - Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.
 - (2) Class II - Leakage of fluid great enough to form drops, but not enough to cause drops to fall from the item being checked/inspected.
 - (3) Class III - Leakage of fluid great enough to form drops that fall from the item being checked/inspected.

NOTE:

A Class I Leak, except in fuel or brake systems, is an acceptable condition at any time and does not require corrective action.

- e. Electrical Control Box Assemblies - The Safety Switch Assembly shall be tested for continuity and operation in the raised and lowered position in accordance with the instructions in TM 08982A-14&P/2B.
- f. Data Plates - All required data plates and decals shall be in place and shall be legible. Each repaired **MK 155** shall have an IROAN data plate affixed to the main unit in close proximity to the existing data plate. The data plate shall meet the requirements of MIL-STD-130 and TM 4750-15/2.
- g. Painting/Coating (Exterior/Interior) - If painting/coating is required, the MK 155 shall be cleaned in accordance with TM 3080-50, Chapter 4, and coated with Aliphatic Polyurethane Coating, in accordance with MIL-C-46168 or MIL-C-53039.
- h. Demilitarization - All end items that are identified as non-repairable and require demilitarization codes, shall be reported to the Marine Corps Logistics Bases representatives Code 837-1, who will provide disposition instructions in accordance with DODD 4160.21-M-1.
- i. Electromagnetic Emission - All requirements pertaining to control of electromagnetic interference, emission and susceptibility shall be in accordance with MIL-STD-461.
- j. Hardware
 - (1) Replace broken, unserviceable and/or missing hardware including nuts, bolts, screws, washers, turnlock fasteners, mandatory, safety, and one-time use items, etc., in

accordance with TM 08982A-14&P/2B. Unserviceable would include any of the above that failed to function properly.

(2) Ensure proper hardware locking devices are present and operational on all moving mechanical assemblies.

(3) Hardware normally supplied with commercial parts shall be used unless specifically prohibited.

k. Hoses - All hoses and fittings shall be visually inspected for damage or deterioration. Any hose showing signs of leakage, kinking or separation of outer coating shall be replaced. This inspection shall be performed during the OTI of the MK155.

l. Hydraulic Reservoir - Hydraulic reservoir shall be inspected for corrosion and repaired or replaced if required. Hydraulic reservoir shall be drained and flushed to remove contamination and then refilled with the hydraulic fluid identified in TM 08982A-14&P/2B.

m. Cable Assemblies - All cables and cable connections shall be tested and visually inspected for damage or corrosion. Any cable or cable connector showing signs of damage, corrosion or separation of outer coating shall be repaired/replaced and tested with its respective component box/assembly to assure satisfactory compliance with all operational test

3.2.3 Phase III - Inspection, Testing and Acceptance

a. Inspection, Testing and Acceptance of the **MK 155** shall be conducted in accordance with TM 08982A-14&P/2B.

b. The Contractor shall be responsible for conducting required tests and shall ensure all necessary personnel are available to complete the final acceptance. Acceptance tests shall be held at the Contractor. MCLB, Albany, Georgia, representatives shall be given a minimum of two weeks notice prior to beginning acceptance testing. The test area shall be cleared of all equipment parts, components, etc., not required for the test.

c. The Contractor shall be responsible for correcting any deficiencies identified during inspection/testing. MCLB, Albany, Georgia, representatives may require the Contractor to repeat tests or portions thereof, if the original tests fail to demonstrate compliance with this SOW.

d. Acceptance testing on all **MK 155** repaired under the provisions of this SOW shall be accomplished in accordance with TM 08982A-14&P/2B. The Operational Tests are to be conducted on each MK 155, upon completion of repairs and prior to the equipment being returned to stock. Operational Tests shall not require any ammunition to complete the test. Tests will be conducted with the **MK 155** secured on the M353 trailer.

3.2.4 Packaging, Handling, Storage, and Transportation (PHS&T).

a. The Contractor shall be responsible for preservation and packaging of items being repaired under the terms of this statement of work. Items scheduled for long term storage or shipment to overseas destinations shall be level "A" requirements of MIL-STD-2073-1C. Items being prepared for domestic shipment and immediate use, shall be packaged to level "B" requirements.

b. Marking shall be in accordance with MIL-STD-129.

c. The Marine Corps will provide the contractor with the shipping address(es) for delivery of the repaired equipment. The contractor shall be responsible for arranging for shipment of the equipment to the pre-designated site(s). The Marine Corps will be responsible for transportation costs associated with shipping the subject equipment to and from the Contractor.

3.3 Configuration Management

3.3.1 Configuration Status Accounting (CSA).

a. The Contractor shall determine the application status of approved configuration changes by visual inspections to the extent possible. The government will identify the configuration changes to be inspected by furnishing a Configuration Inspection Checklist to the Contractor. The Contractor shall use one checklist per **MK 155** to record their inspection findings along with other required data.

b. The Contractor shall record serial numbers of the assemblies listed on the Configuration Inspection Checklist. The Contractor shall record the information on the same form that was used to record the application status of configuration changes.

3.3.2 Configuration Control. The baseline configuration for the **MK 155** has been established by Marine Corps Drawing numbers 82A5052A0000 for the **MK 155** and approved MIs and ECP's. No deviations from this baseline configuration shall be allowed unless authorized by MCLB Albany, Engineer Branch, Code 837. The contractor shall process Requests for Deviation/Waivers, using MIL-STD-973, paragraphs 5.4.3, 5.4.4, subparagraphs and Appendix E, as a guide.

3.4 Quality Assurance Provisions

The contractor shall provide and maintain a Quality System that, as a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9002-1994, quality System Model for Quality Assurance in Production, Installation, and Servicing. The program shall ensure quality throughout all areas to include design, fabrication, processing, assembly, inspection, test, maintenance, and preparation for delivery and shipping. Unless otherwise specified in the contract, the Contractor shall be responsible for performance of all inspection requirements. The Government reserves the right to

perform any of the inspections set forth in the contract where such inspections are deemed necessary to assure products and services conform to the prescribed requirements. The Contractor shall provide an Inspection and Test Plan.

3.5 Acceptance.

The performance of the Contractor and the quality of work delivered, including all equipment furnished and documentation written or compiled, shall be subject to in-process review and inspection during performance. Inspection may be accomplished in-plant or at any work site or location, and Marine Corps representatives shall be permitted to observe the work or to conduct inspection at all reasonable hours. Final inspection and acceptance testing shall be conducted at the Contractor. Final acceptance shall be conducted on 100 percent of items to verify that the units meet all requirements.

3.6 Rejection

Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCLB, Albany, representative. The Contractor shall, at no additional cost to MCLB, Albany, Georgia, provide the following:

a. Develop an approach for modification or correction of all deficiencies.

b. Upon approval of a documented approach, the Contractor shall correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures is demonstrated.

3.7 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM).

GFE is government owned equipment authorized by contract for use by a commercial/government contractor. It is neither consumed during production nor incorporated into any product. GFM is materiel furnished to a contractor that will be consumed during the course of production or incorporated into product being manufactured/remanufactured under a contract/statement of work. In the event the Marine Corps does have GFE/GFM requirements, the Management Control Activity (MCA/G316-2), Marine Corps Logistics Bases, Albany, Georgia, will coordinate required GFE and will maintain a central control on Marine Corps assets in the Contractor's possession. The MCA will forward a GFE Accountability agreement to the Contractor Facility for signature to establish a chain of custody and property responsibilities for Marine Corps assets. The Contractor shall report receipt of all GFM and report consumption of GFM to the MCA.

3.8 Contractor Furnished Materiel. The Marine Corps has adopted the Navy's procedures regarding Contractor Furnished Materiel (NAVICPINST 4491.2A). In the event that Contractor Furnished Materiel is required for repair parts, the contractor shall requisition through the DOD Supply System. DOD 4000.25-1-M, (MILSTRIP) Chapter 11 authorizes contractors to requisition through the DoD Supply System.

4.0 REPORTS

4.1 Repairable Item Inspection Report. The Contractor shall provide a Repairable Item Inspection Report for each **MK 155**. The report shall be identified by United States Marine Corps Serial Number.

4.2 Monthly Progress Reports. The Contractor shall provide Monthly Progress Reports summarizing the progress and status of the IROAN Program.

4.3 Pre-Induction Checklist. The Contractor shall complete the Pre-Induction Inspection Checklist for each **MK 155** repaired. These documents shall be available during final acceptance testing. One copy of each document shall be provided to MCLB, Albany, Georgia, Code 837-1, after final acceptance of the **MK 155**.

The inspection checklist shall contain, but not be limited to the following:

- (1) **MK 155** serial number.
- (2) Condition Code of **MK 155** at receipt.
- (3) Results of hydraulic/electrical operational test.
- (4) List of defective parts and assemblies.
- (5) List of repair parts and assemblies required for repairs.
- (6) Corrosion prevention methods that shall be used.

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ OTHER _____ <input checked="" type="checkbox"/>	
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D. SYSTEM/ITEM Mine Clearance Launcher, MK154	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM Contractor's Progress, Status, and Management Report	3. SUBTITLE Monthly Progress Report
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4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-80227	5. CONTRACT REFERENCE SOW 4.2	6. REQUIRING OFFICE MCLBA (837)
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7. DD 250 REQ LT	8. DIST STATEMENT REQUIRED	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION See Blk 16	14. DISTRIBUTION			
9. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Blk 16	a. ADDRESSEE	b. COPIES		
					Draft	Final	
						Reg	Repro

16. REMARKS Contractor format is authorized. Blk 4 - Tailor DI-MGMT-80227 as follows: Delete paragraphs 10.3g, 10.3h, 10.3i, 10.3j, 10.3k, and 10.3n. Blk 12 - The reporting period shall be from the first to last business day of each month. Initial submission shall be 60 DAC. Blk 13 - Subsequent submissions shall be 10 days after the last business day of each month. Distribution Statement A: Approved for public release, distribution is unlimited.	MCLBA (837-1)	0	1	0	
	15. TOTAL	→	0	1	0

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY <i>Lawrence C Reno</i>	H. DATE 10/20/99	I. APPROVED BY <i>Arnold R Hall</i>	J. DATE 10/20/99
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CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>
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D. SYSTEM/ITEM Mine Clearance Launcher, MK154	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. B001	2. TITLE OF DATA ITEM Repairable Item Inspection Report	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) DI-ILSS-80386	5. CONTRACT REFERENCE SOW 4.1	6. REQUIRING OFFICE MLCBA (837)
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7. DD 250 REQ LT	8. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION See Blk 16	14. DISTRIBUTION		
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Blk 16	a. ADDRESSEE	b. COPIES	
					Draft	Final
					Reg	Repro

16. REMARKS Contractor format is authorized. Blk 10 - A separate report shall be submitted for each Mine Clearance Launcher, MK154 repaired. Blks 12 & 13 - Submit report by Marine Corps Serial Number 30 days after completion of each Mine Clearance Launcher, MK154. Blk 14 - Reports shall be provided on hard copy. Distribution Statement A: Approved for public release, distribution is unlimited.	14. DISTRIBUTION	a. ADDRESSEE	b. COPIES	
		MCLBA (837-1)	Draft: 0, Final Reg: 1, Final Repro: 0	
		15. TOTAL		0 1 0

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY <i>Lawrence A. Rew</i>	H. DATE 10/20/99	I. APPROVED BY <i>Arnold K. Hall</i>	J. DATE 10/20/99
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CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

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OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TOP _____ TM _____ OTHER _____ X
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D. SYSTEM/ITEM Mine Clearance Launcher, MK154	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. C001	2. TITLE OF DATA ITEM Request For Waiver	3. SUBTITLE Configuration Management
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4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80641B	5. CONTRACT REFERENCE SOW 3.3.2	6. REQUIRING OFFICE MCLBA (825)
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7. DD 250 REQ LT	8. DIST STATEMENT REQUIRED A	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION			
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES		
					Draft	Final	
						Reg	Repro

16. REMARKS Blks 7 and 14 - All deliveries shall be transmitted via E-Mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil Blks 10 & 12: RFWs will be reviewed and disposition determined within 30 calendar days upon receipt by the Government. MEARS text files shall be provided as electronic submissions. Any supporting documentation submitted as enclosures or figures to the MEARS text files shall be created in MS Word, MS Excel, or CCIT Group IV graphic files. Group IV graphic files shall include 1840A CAL data file header. Graphic density for drawings shall be delivered as 600dpi. Distribution Statement A: Approved for public release; distribution is unlimited.	MCLBA (825-2)	0	1	0
15. TOTAL	→	0	1	0

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY Douglas S...	H. DATE 9-29-99	I. APPROVED BY Gerald Hall	J. DATE 10/20/99
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CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TOP _____ TM _____ OTHER _____ <input checked="" type="checkbox"/>
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D. SYSTEM/ITEM Mine Clearance Launcher, MK154	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. C002	2. TITLE OF DATA ITEM Request For Deviation	3. SUBTITLE Configuration Management
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4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80640B	5. CONTRACT REFERENCE SOW 3.3.2	6. REQUIRING OFFICE MCLBA (825)
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7. DD 250 REQ LT	8. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION			
8. APP CODE	A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES		
					Draft	Final	
						Req	Repro

16. REMARKS Blks 7 and 14 - All deliveries shall be transmitted via E-Mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil Blks 10 & 12: RFWs will be reviewed and disposition determined within 30 calendar days upon receipt by the Government. MEARS text files shall be provided as electronic submissions. Any supporting documentation submitted as enclosures or figures to the MEARS text files shall be created in MS Word, MS Excel, or CCIT Group IV graphic files. Group IV graphic files shall include 1840A CAL data file header. Graphic density for drawings shall be delivered as 600dpi. Distribution Statement A: Approved for public release; distribution is unlimited.	MCLBA (825-2)	0	1	0	
	19. TOTAL	→	0	1	0

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY Doug L. Smith	H. DATE 9-29-99	I. APPROVED BY Gerald H. Hall	J. DATE 10/20/99
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