

**INSPECT AND REPAIR ONLY AS
NECESSARY (IROAN)
STATEMENT OF WORK (SOW)
FOR THE
GENERATOR SET, DIESEL ENGINE DRIVEN
3 KW 60 HZ, MODEL MEP-016B**

NSN 6115-01-150-4140

TABLE OF CONTENTS

1.0 SCOPE.	1
1.1 Background.	1
2.0 APPLICABLE DOCUMENTS.	1
2.1 Military Standards.	1
2.2 Military Standards - (Guidance Only)	2
2.3 Other Government Documents and Publications.	2
2.4 Industry Standards.	2
3.0 REQUIREMENTS	3
3.1 General Tasks.	3
3.2 Rebuild Objectives and Functions	3
3.3 Specific Task	3
3.3.1 Phase I - Pre-Induction	3
3.3.2 Phase II -IROAN	4
3.3.3 Phase III - Inspection, Testing and Acceptance	5
3.3.4 Phase IV - Packaging, Handling, Storage, and Transportation (PHS&T).	6
3.4 Configuration Management	6
3.5 Government Furnished Equipment Accountability	6
3.6 Contractor Furnished Material	7
3.7 Quality Assurance Provisions	7
3.7.1 Quality Assurance Performances	7
3.7.2 Quality Assurance Requirements	7
3.7.3 Quality Assurance Verification	7
3.8 Acceptance.	8
3.8.1 Acceptance Inspection	8
3.8.2 Acceptance Testing	8
3.9 Rejection	8
4.0 REPORTS	8
4.1 Generator Initial Inspection Checklist . .	8
4.2 Generator Final Inspection Test Report .	9
4.3 Generator Operational Test Report.	9

26 OCTOBER 1999

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Generator Set, Diesel Engine Driven,
3KW 60HZ, Model MEP-016B
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1.0 SCOPE. This Statement of Work (SOW), along with the U.S. Rebuild Standard RS-05926B/06509B-50, establishes and sets forth tasks and identifies the work efforts that shall be performed by the Contractor in the IROAN of the GENERATOR SET, DIESEL ENGINE DRIVEN, 3KW 60HZ, MODEL MEP-016B, hereafter referred to as the GENERATOR SET. These documents contain the minimum requirements to assemble, integrate, make fully operational, calibrate, install, test and inspect the GENERATOR SET 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) 6115-01-150-4140 shall be known as the GENERATOR SET.

Additionally, RS-05926B-06509B-50 sets forth guidelines within which the GENERATOR SET shall be refurbished, repaired and restored. The basic configuration of the GENERATOR SET is established by Stock List (SL)4-05926b/06509B-24P/2. All materiel (including repair parts) shall be provided by the contractor. Installation and testing shall be performed by the contractor. All special tools and test equipment required to perform any task on the GENERATOR SETS are listed in RS-05926B-06509B-50, and shall be provided by the contractor.

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 Standards.

MIL-STD-129	DoD Standard Practice for Military Marking
MIL-STD-130	Identification Marking of US. Military Property
MIL-STD-642	Identification Marking of Combat and Tactical Transport Vehicles

SOW-00-837-1-05926B-2/1

26 OCTOBER 1999

Military Standards - (For Guidance Only)

MIL-STD-973 Configuration Management

2.2 Other Government Documents and Publications. The issues of those documents cited below shall be used.

SL-4-05926B/06509B-24P/2	Generator Set, Diesel Engine Driven, 3KW 60HZ, Model MEP-016B
PPP-G-2919	Generator Sets, Mobile Electric Power and Supplemental Equipment; Packaging of
TM 4750-15/1	Painting and Registration Marking for Marine Corps Combat and Tactical Equipment
TM 05926B/06509B-12/1	Generator Set, Diesel Engine Driven, 3KW 60HZ, Model MEP-016B
RS 05926B/06509B-50	Rebuild Standard, Generator Set, Diesel Engine Driven, 3KW 60HZ, Model MEP-016B
DoD 4000.25-1-M	MILSTRIP MANUAL
NAVICPINST 4491.2A	Requisitioning of Contractor Furnished Material From The Federal Supply System

2.3 Industry Standards.

ANSI/ISO/ASQC Q9002-1994 Quality Systems

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.

26 OCTOBER 1999

3.0 REQUIREMENTS

3.1 General Tasks. In fulfilling the specified requirements, the Contractor shall render, yet shall not be limited to the following tasks:

a. Provide materials, labor, facilities, repair parts, and services necessary to troubleshoot, test, diagnose, engineer, integrate, install, repair and calibrate as required to make fully operational, the GENERATOR SET.

b. Conduct final-on-site testing for witness by the Weapon System Manager, MCLB, Albany, (Code 837-1) and/or their representatives.

c. The contractor shall be responsible for all structural, electrical and mechanical requirements associated with the repair and restoration of the GENERATOR SET.

3.2 Rebuild Objectives and Functions. After IROAN, the GENERATOR SET shall have as a minimum, the following characteristics:

- a. Reliable as per system specifications
- b. Be maintainable
- c. Be Serviceable (Condition Code "A")
- d. Be the latest Marine Corps Configuration
- e. All Generator systems and components shall operate as design intended.

3.3 Specific Tasks The following tasks describe the different phases for the IROAN of the GENERATOR SET.

Phase I Pre-Induction (Initial Inspection)

Phase II Rebuild

Phase III Inspection, Testing and Acceptance

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

3.3.1 Phase I Pre-Induction

a. The contractor shall inspect in detail all generators transported to the contractor for IROAN under provisions of this SOW using Section IV (troubleshooting) of TM 05926B/06509B-12/1. The contractor shall insure that the inspection is sufficient to determine the condition of the inspected generator and the extent of work and repair parts required. The findings of this inspection shall be annotated on the Generator Initial Inspection Checklist of this IROAN SOW and shall be maintained and made available upon request by the Weapon System Manager, MCLB, Albany,

26 OCTOBER 1999

(Code 837-1) and/or their representative. The Generator Initial Inspection Checklist may be duplicated in a electronic database and maintained in that database. If data is selected to be provided electronically to the Weapon System Manager, MCLB, Albany, (Code 837-1) and /or their representative, the database must be agreed to by both the contractor and the Weapons System Manager, MCLB, Albany, (Code 837-1) and or their representative.

b. Test equipment, as identified in RS 05926B-06509B-50, shall be used to determine that assemblies and subassemblies meet prescribed reliability, performance, and work requirements. In those cases when conformance to the SOW cannot be certified through existing inspection and testing procedures and by use of diagnostic equipment, the assembly shall be removed, disassembled, inspected, tested, and repaired to the degree necessary to assure full conformance with this SOW.

c. Evidence of lubricating or hydraulic oils passing through or around a seal or gasket, is in itself, not a defect. However, consideration must be given to the fluid capacity in the item being checked/inspected. Inspection shall normally be performed during and immediately following an operational test, but not sufficient duration to allow the fluids to return to ambient temperatures. The following shall be used as a guide in determining the degree of oil loss:

1. Class I - Seepage of fluid (indicated by wetness or discoloration) not great enough to form drops.

2. Class II - Leakage of fluids 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.

A CLASS I OR II LEAK, EXCEPT FUEL SYSTEM, IS AN ACCEPTABLE CONDITION AT ANY TIME AND DOES NOT REQUIRE CORRECTIVE ACTION

3.3.2 PHASE II - IROAN. After pre-induction tests and inspections have been completed, repair of the Generator Set shall be accomplished in accordance with this SOW and RS 05926B/06509B-50. Deficiencies noted on the Generator Initial Inspection 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. Mandatory replacement parts list is contained in Table 3-1 of RS 05926B/06509B-50.

a. Cleaning and Painting. Cleaning and painting shall be accomplished in accordance with Section IV of RS 05926B/06509B-50.

b. Data Plates and Decals. Each IROANed Generator Set shall have an IROAN data plate affixed next to the existing generator data plate after the generator has completed the repair cycle. The data plate shall meet the requirements of MIL-STD-130 and TM 4750-15/1. The IROAN data plate shall contain the following information:

SOW-00-837-1-05926B-2/1

26 OCTOBER 1999

GENERATOR SERIAL NO. _____ REPAIRED IN ACCORDANCE WITH

SOW-00-837-1-05926B-2/1.

CONTRACTOR FACILITY _____

DATE _____ HOUR METER READING AT TIME OF IROAN _____

3.3.3 PHASE III - INSPECTION, TESTING AND ACCEPTANCE.

a. Inspection, testing and acceptance of the Generator Set shall be conducted in accordance with provisions of this SOW and RS 05926B/06509B-50.

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 contractors facility. The Weapon System Manager, MCLB, Albany, (Code 837-1) and or their representatives shall be given a minimum of two weeks notice prior to beginning acceptance testing. The test area shall be set up with all safety considerations incorporated (test area clearly defined, limited access to unauthorized vehicles and foot traffic, etc.).

c. The contractor shall be responsible for correcting any deficiencies identified during inspection/testing. The Weapon System Manager, MCLB, Albany, (Code 837-1) and/or their 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 Generator Sets repaired under the provisions of this SOW shall be accomplished in accordance with RS 05926B/06509B-50.

e. Vehicle markings, registration numbers and other markings shall be applied in accordance with MIL-STD-642.

f. The Generator Set shall be equipped with instruction plates suitably located, describing any special or important procedures to be followed in operating and servicing the equipment. Plates shall be of a material which will last and remain legible for the life of the equipment, and shall be securely affixed thereto with nonferrous screws, rivets or bolts of not less than 1/8 inch diameter.

NOTE

Reading of hour meters that require replacement during the IROAN are to be recorded as information to be included in the record jacket of that Generator Set. The generator record jacket is also to be annotated that these components were replaced during the IROAN and the reading annotated on the IROAN data plate is that of the hour meter that required replacement.

g. All major equipment or component serial numbers that are replaced during the IROAN are to be identified by the contractor for entry in the record jacket of the Generator Set. The information listed will be the Generator Set serial number, Name of equipment/component(s) replaced, serial number of deficient equipment/component(s), serial number of replacement equipment/component(s), and if the equipment component(s) is new or rebuilt.

3.3.4 PHASE IV - PACKAGING, HANDLING, STORAGE AND TRANSPORTATION

26 OCTOBER 1999

(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 being prepared for long term storage or overseas shipment shall be level "A" requirements in accordance with PPP-G-2919. Items being prepared for domestic shipment or immediate use, shall be in accordance with level "B" requirements. First article testing of the pack as delineated by paragraph 3.1 of PPP-G-2919 is not required.

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

c. The Marine Corps will provide the contractor with shipping address(es) for delivery of the repaired equipment. The contractor shall be responsible for arranging for shipment 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.

3.4 CONFIGURATION CONTROL. The contractor shall apply configuration control to establish configuration items. The contractor shall not implement configuration changes to any item without receiving prior written authority from MCLBA (Code 837). If it is necessary to depart from the authorized configuration, the Contractor shall submit a Request for Deviation or Request for Waiver using MIL-STD-973, paragraph 5.4.3 or 5.4.4 as guidance.

3.5 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/820), 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.

26 OCTOBER 1999

3.6 CONTRACTOR FURNISHED MATERIEL (CFM).

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 contractor's to requisition through the DoD Supply System.

3.7 QUALITY ASSURANCE PROVISIONS

3.7.1 Quality Assurance Performances. The performances of the Contractor and the quality of work delivered, material provided and documents written shall be subject to in-process review and inspection by the Weapon System Manager, MCLB, Albany, (Code 837-1) and/or their representatives during contract performance. Inspection may be accomplished at any work location. Authorized Weapon System Manager, MCLB, Albany, (Code 837-1) and/or their representatives shall be permitted to observe the work/task accomplishment or to conduct inspections at all reasonable hours within contractor's normal working hours. Acceptance tests shall be held in-plant. Inspection by the Weapon System Manager, MCLB, Albany, (Code 837-1) and/or their representatives of all acceptance test plans, materials and associated lists furnished hereunder does not relieve the contractor from any responsibility regarding defects or other failures to meet contract requirements which may be disclosed prior to final acceptance.

3.7.2 Quality Assurance Requirements. 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 contractors work shall be subject to in-process reviews and inspections for compliance with Quality Systems by Weapon System Manager, MCLB, Albany, (Code 837-1) and/or their representatives. Noncompliance with procedures resulting in degraded quality of work may result in a stop-work order requiring action by the contractor to correct the work performed and to enforce compliance with Quality Assurance procedures or face contract termination. Notwithstanding, it shall be the contractors responsibility to ensure that the entire system meets the performance requirements delineated and addressed in the GENERATOR SET RS 05926B/06509B-50.

3.7.3 Quality Assurance Verification. Quality Assurance operations performed by the contractor shall be subject to the Weapon System Manager, MCLB, Albany, (Code 837-1) and/or their representatives verification at any time. This verification can include, but shall not be limited in any manner, to the following:

- a. Inspection of materials, products, assemblies, and documentation to assess compliance with quality standards.
- b. Surveillance of operations to determine that quality assurance, practices, methods, and procedures are being properly applied.
- c. Inspection of deliverable products to assure compliance with all requirements of the Generator Set, this SOW, and applicable documents used herein.

26 OCTOBER 1999

d. Failure of the contractor to promptly correct deficiencies discovered, shall be reason for suspension of acceptance until corrective action has been made.

3.8 ACCEPTANCE

3.8.1 Acceptance Inspection. 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 Weapon System Manager, MCLB, Albany, (Code 837-1) and/or their representatives shall be permitted to observe the work or to conduct inspection at all reasonable hours within the repair facilities normal working hours. Final Inspection and acceptance testing shall be conducted at the contractors facility. Final acceptance shall be conducted on 100 percent of the items to verify that the generators meet all requirements.

3.8.2 Acceptance Testing. The Generator Set IROANED under the provisions of this SOW shall be accomplished in accordance with RS 05926B-06509B-50, Generator Final Inspection Checklist.

3.9 REJECTION

Failure to comply with any of the specified requirements listed herein, shall be reason for rejection by Marine Corps Weapon System Manager, MCLB, Albany, (Code 837-1). 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.

4.0 REPORTS

4.1 Generator Initial Inspection Checklist. The contractor shall complete the Generator Initial Inspection Checklist for each Generator Set 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 Generator Set. The Initial Checklists can be found in Appendix D, Appendix E, and Appendix F of RS 05926B/06509B-50.

4.2 Generator Final Inspection Report. The contractor shall provide one copy per generator, of the Generator Final Inspection Report. The report shall be available for review during the final acceptance testing and one copy shall be sent to Marine Corps Weapon System Manager, MCLB, Albany, (Code 837-1), upon acceptance of the Generator Set. The Final Inspection Checklists can be found in Appendix D, Appendix E, and Appendix F of RS 05926b/06509B-50.

4.3 Generator Operational Test Report. The contractor shall provide one copy per generator, of the Generator Operational Test Report. The report shall be available for review during the final acceptance testing and one copy shall be sent to Marine Corps Weapon System Manager, MCLB,

SOW-00-837-1-05926B-2/1

26 OCTOBER 1999

Albany, (Code 837-1), upon acceptance of the Generator Set. The Generator Operational Test Report can be found in Appendix G of RS 05926B/06509B-50.

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 Generator Set, Diesel Engine Driven	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM Request For Deviation	3. SUBTITLE Configuration Management
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4. AUTHORITY (Date Acquisition Document No.) DI-CMAN-80640B	5. CONTRACT REFERENCE SOW 3.4	6. REQUIRING OFFICE MCLBA (825)
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION		
8. APP CODE	11. AS OF DATE A	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE		b. COPIES	
				Draft	Final	
					Reg	Repro

16. REMARKS Blk 4 - Contractor format is authorized. Blks 10 & 12 - RFDs shall be submitted to obtain authorization to deliver nonconforming material which does not meet prescribed configuration documentation. RFDs will be reviewed and disposition determined within 30 calendar days upon receipt by the Government. RFDs shall be transmitted via E-Mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil Distribution Statement A: Approved for public release, distribution is unlimited.	15. TOTAL	0	1	0

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY <i>Miriam J Bradley</i>	H. DATE	I. APPROVED BY <i>Leah R Hall</i>	J. DATE 11/01/89
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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 _____ X
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D. SYSTEM/ITEM Generator Set, Diesel Engine Driven	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. A002	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 3.4	6. REQUIRING OFFICE MCLBA (825)
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7. DD 250 REQ LT	9. 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	
						Reg	Repro

16. REMARKS Blk 4 - Contractor format is authorized. Blks 10 & 12 - RFWs shall be submitted to obtain authorization to deliver nonconforming material which does not meet prescribed configuration documentation. RFWs will be reviewed and disposition determined within 30 calendar days upon receipt by the Government. RFWs shall be transmitted via E-Mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil 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 <i>Niam L Bradley</i>	H. DATE	I. APPROVED BY <i>Herbert Hall</i>	J. DATE 11/01/99
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