

**STATEMENT OF WORK (SOW)  
for the  
INSPECT AND REPAIR ONLY AS NECESSARY (IROAN)  
of the  
NORTH FINDING MODULE  
CPU AND 12K MEMORY ASSEMBLY, A4 CARD,  
NSN 5998-01-212-5056**

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1.0 SCOPE. This Statement of Work (SOW) establishes, set forth tasks and identifies the work efforts that shall be performed by the Contractor to Inspect and Repair Only as Necessary (IROAN) the North Finding Module CPU and 12K Memory Assembly, A4 Card, NSN 5998-01-212-5056, part number 81A5034A0150, CAGE 80372, hereafter referred to as the A4 Card. This Document contains requirements to restore the A4 Card 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, including materiel with more than six months shelf-life remaining."

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 DoD Index of Specifications and Standards 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 Standard

MIL-STD-129	DoD Standard Practice: Military Marking For Shipment and Storage
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MIL-STD-2073-1D	DoD Standard Practice for Military Packaging
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2.2 Other Government Documents and Publications

RS 08911A-50&P/3	Rebuild Standard With Illustrated Parts List North Finding Module MX-18204/GSQ
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81A5034A0150 CAGE 80372, Revision C	CPU and 12K Memory Assembly, A4 Engineering Drawing
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DoD 4000.25-1-M	Military Standard Requisitioning and Issue Procedures Manual (MILSTRIP)
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TM 09811A-34&P/2	Intermediate Maintenance Manual with Illustrated Parts List for North Finding Module MX-18204/GSQ
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Military Handbooks (For Guidance)

MIL-HDBK-61	Configuration Management Guidance
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2.3 Industry Standards

JESD625-A	Requirements for Handling Electrostatic-Discharge Sensitive (ESDS) Devices
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ANSI/ISO/ASQC Q9001-2000	Quality Management Systems-Requirements
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Industry Standards (For Guidance)

ANSI/EIA-649	National Consensus Standard for Configuration Management
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Copies of Military Specifications and Standards are available from the DoD Single Stock Point, Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, commercial telephone number (215) 697-2179 or DSN 442-2179, or on the Internet at <http://www.dodssp.daps.mil>. Copies of other government documents and publications required by contractors in connection with specific SOW requirements shall be obtained through the Contracting Officer: Commander, Marine Corps Logistics Command, Attn: Contracting Officer (Code 891), 814 Radford Blvd., Albany, Georgia 31704-1128, commercial telephone number (229) 639-6761 or DSN 567-6761. Copies of engineering drawings, if applicable, shall be obtained from Supply Chain Management Center, Attn: Code 583-1, 814 Radford Blvd., Suite 20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6476 or DSN 567-6476.

3.0 REQUIREMENTS

3.1 General Tasks. In fulfilling the specified requirements, the Contractor shall provide materials, labor, equipment, facilities and missing/repair parts, necessary to inspect, diagnose, restore, and test and/or calibrate the A4 Card. Upon completion of repairing the subject item, it shall be Condition Code "A."

3.2 Detailed Tasks. The following tasks describe the different phases for repair of the A4 Card:

Phase I	Pre-Induction
Phase II	Repair
Phase III	Inspection, Testing, and Acceptance
Phase IV	Packaging, Handling, Storage, and Transportation (PHS&T)

3.2.1 Phase I- Pre-Induction. The Contractor shall perform a pre-induction inspection analysis for each A4 Card within five working days of induction into the Contractor's facility for evaluation of repair capability. If repair is not feasible, assign Condition Code "H" (CC "H"), notify Marine Corps Systems Command (MCSC) (Code AFSS-FSS), Albany, Georgia for disposition instructions, otherwise assign CC "M" and induct into the repair cycle. The Pre-Induction checklist, which consist of DA Form 2404 (Appendix A) and Standard Form 364 (Appendix B), shall be used to report all anomalies and shall be provided to the Government, MCSC (Code AFSS-FSS) in accordance with Section 4.0 of this SOW.

3.2.2 Phase II – Repair. After pre-induction tests and inspections have been completed, the Contractor, in accordance with this SOW, shall accomplish repair of the A4 Card. Deficiencies noted on the Pre-Induction Checklist (Appendix A and Appendix B) during Phase I shall be repaired/ replaced. Components or assemblies shall not be disassembled for replacement of parts unless that part has failed, or the component assembly wherein the part is located is disassembled for repair.

a. Hardware

(1) Replace broken, unserviceable and/or missing hardware including nuts, bolts, screws, washers, turnlock fasteners, mandatory replacement items, safety and one-time use items. Unserviceable would include any of the above that failed to function properly.

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

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

b. Publications and Documentation: The following standard, publication, and engineering drawing shall be used to assist the Contractor in restoring the A4 Card to condition code "A."

RS 08911A-50&P/3

Rebuild Standard With Illustrated Parts List  
North Finding Module MX-18204/GSQ

TM 09811A-34&P/2	Intermediate Maintenance Manual with Illustrated Parts List for North Finding Module MX-18204/GSQ
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81A5034A0150/ CAGE 80372, Revision C	CPU and 12K Memory Assembly, A4, Engineering Drawing
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### 3.2.3 Phase III - Inspection, Testing, and Acceptance

a. The Contractor shall conduct Inspection, Testing and Acceptance of the A4 Card in accordance with the following publications and documents:

RS 08911A-50&P/3	Rebuild Standard With Illustrated Parts List North Finding Module MX-18204/GSQ
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TM 09811A-34&P/2	Intermediate Maintenance Manual with Illustrated Parts List for North Finding Module MX-18204/GSQ
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81A5034A0150/ CAGE 80372, Revision C	CPU and 12K Memory Assembly, A4, Engineering Drawing
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b. The Contractor shall be responsible for correcting any deficiencies identified during inspection/testing. MCSC (Code AFSS-FSS), Albany, GA representatives may require the Contractor to repeat tests or portions thereof, if the original tests fail to demonstrate compliance with this SOW.

### 3.2.4 Phase IV - Packaging, Handling, Storage, and Transportation

a. The Contractor shall be responsible for preservation and packaging of item(s) being repaired under the terms of this Statement of Work. Items scheduled for long-term storage or shipment to overseas destinations shall be in accordance with Level "A" requirements of MIL-STD-2073-1D, Appendix J, Table J.Ia., Specialized Preservation Code "GX" and shall be packed into a reusable fast-pack container. Items scheduled for domestic shipment for immediate use or short-term storage shall be in accordance with Level "B" requirements and packed into a reusable fast-pack container.

b. Military Marking for Shipment and Storage 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 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 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM). The Management Control Activity (MCA) (Code 571-1) will coordinate GFE/GFM requests and maintain a central control system on all government owned assets in the contractor's possession. The MCA will forward a GFE Accountability Agreement to the contractor for signature on an annual basis to establish a chain of custody and identify property responsibilities for Marine Corps assets. The contractor is to acknowledge receipt of GFM to the MCA within 15 days of receipt. This can be done by mailing a copy of the DD1348 to Materiel Management Department, Management Control Activity (Code 571-1), 814 Radford Blvd., STE 20320, Albany, GA 31704-0320, or by faxing a copy to commercial telephone number (229) 639-5498 or DSN 567-5498.

3.4 Contractor Furnished Materiel (CFM). The contractor may requisition materiel as required in the performance of the SOW through the DoD Supply System. DoD 4000.25-1-M, (MILSTRIP), Chapter 11 provides guidance to contractors on the requisitioning process. The contractor's decision to utilize CFM procured from the DoD Supply System shall be based upon cost effectiveness, availability of materiel and the required completion/delivery date.

3.5 Configuration Control. The contractor shall apply configuration control procedures to established configuration items. The contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. All permanent changes to the form, fit or function of the baseline shall be by Engineering Change Proposal. If it is necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request for Deviation. MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing these configuration control documents.

3.6 Electrostatic Discharge (ESD) Control Program. The Contractor shall establish, implement and document an ESD control program following the guidelines provided in JESD625-A. ESD protective measures shall be used during manufacturing, handling, inspection, testing, marking, packaging, storing and transporting ESD sensitive components.

3.7 Quality Assurance Provisions. The Contractor shall provide and maintain a quality system that as a minimum adheres to the requirements of ANSI/ISO/ASQC Q9001-2000, Quality Management Systems – Requirements. The program shall ensure quality throughout all areas to include 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, MCSC (Code AFSS-FSS) 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.

3.8 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, MCSC (Code AFSS-FSS) representatives shall be permitted to observe the work or to conduct an inspection.

3.9 Rejection. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCSC (Code AFSS-FSS), Albany, representative. The Contractor shall, at no additional cost to MCSC, Albany, Georgia, correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures is demonstrated.

#### 4.0 REPORTS

4.1 Pre-Induction Checklist. The Contractor shall complete the Pre-Induction Inspection Checklist (Appendix A and Appendix B) for each A4 Card repaired. These documents shall be available prior to final acceptance testing. One copy of each document shall be provided to Marine Corps Systems Command, Attn: Code AFSS-FSS, 814 Radford Blvd., STE 20343, Albany, Georgia 31704-0343, after final acceptance of the A4 Card.

4.2 Repairable Item Inspection Report. The Contractor shall provide a Repairable Item Inspection Report to the Government, MCSC (Code AFSS-FSS), Albany, GA for each A4 Card repaired.

4.3 Monthly Progress Reports. The Contractor shall provide Monthly Progress Reports summarizing the progress and status of the A4 Card Program to the Government MCSC (Code AFSS-FSS), Albany, GA.



INSTRUCTIONS

DEPARTMENT OF DEFENSE: DLAR 4140.55/AR 735.11.2/NAVSUPINST 4440.127E/AFR 400.54/MCO 4430.3E, Reporting of Item and Packaging Discrepancies, and/or DLAR 4140.60/AR 12-12/NAVSUPINST 4920.9B/AFR 67.7/MCO 4140.1B, processing Discrepancy Reports Against Foreign Military Sales Shipments. CIVILIAN AGENCIES: See FPMR handbook cited in 19 (2) (a).

REPORT OF DISCREPANCY (ROD) SHIPPING _____ PACKAGING _____		1. DATE OF PREPARATION	2. REPORT NUMBER					
3. TO: (Name and Address, Include ZIP Code)		4. FROM: (Name and Address, Include ZIP Code)						
5a. SHIPPERS NAME		5b. NUMBER AND DATE OF INVOICE	5c. TRANSPORTATION DOCUMENT NUMBER (GBL, Waybill, TCN, etc.)					
7a. SHIPPER'S NUMBER (Purchase Order/Shipment, Contract, etc)	7b. OFFICE ADMINISTERING CONTRACT		8. REQUISITIONER'S NUMBER (Requisition, Purchase Request, etc.)					
9. SHIPMENT, BILLING, AND RECEIPT DATA			10. DISCREPANCY DATA					
11. 2 ACTION CODE								
NSN/PART NUMBER AND NOMENCLATURE (a)	UNIT OF ISSUE (b)	QUANTITY SHIPPED/BILLED (c)	QUANTITY RECEIVED (d)	QUANTITY (a)	UNIT PRICE (b)	TOTAL COST (c)	1 CODE (d)	

12. REMARKS (continue on separate sheet of paper if necessary)

1. DISCREPANCY CODES		2 ACTION CODES
<b>CONDITION OF MATERIAL</b> C1 - In condition other than that indicated on Release/receipt document C2 - Expired shelf life C3 - Damaged parcel post shipment <b>SUPPLY DOCUMENTATION</b> D1 - Not received D2 - Illegible or mutilated D3 - Incomplete, Improper or without authority (Only when receipt cannot be properly processed) <b>MISDIRECTED MATERIAL</b> M1 - Addressed to wrong activity <b>OVERAGE/DUPLICATE SHIPMENTS</b> O1 - Quantity in excess of that on receipt document O2 - Quantity in excess of that requested (Other than unit of issue pack) O3 - Quantity duplicate shipment <b>PACKING DISCREPANCY</b> P1 - Improper preservation P2 - Improper packing P3 - Improper Marking P4 - Improper unitization	<b>PRODUCT QUALITY DEFICIENCIES</b> Q1 - Deficient material (Applicable to Grant Aid and FMS shipments) <b>SHORTAGE OF MATERIAL</b> S1 - Quantity less than that on receipt document S2 - Quantity less than that requested (Other than unit of issue pack) S3 - Non-receipt of parcel post shipments <b>ITEM TECHNICAL DATA MARKINGS (i.e., Name Plates, Log Books, Operating Handbooks, Special Instructions, etc.)</b> T1 - Missing T2 - Illegible or Mutilated T3 - Precautionary operational markings missing T4 - Inspection data missing or incomplete T5 - Serviceability operating data missing or incomplete T6 - Warranty data missing <b>WRONG ITEM (Identify requested item as a separate copy in Item 9. above)</b> W1 - Incorrect item received W2 - Unacceptable substitute <b>OTHER DISCREPANCIES</b> Z1 - See Remarks	1A - Disposition instructions requested (Reply on reverse) 1B - Material being retained (See Remarks) 1C - Supporting supply documentation requested 1D - Material still required, expedite shipment (Not applicable to FMS) 1E - Local purchase material to be returned at supplier's expense unless disposition instructions to the contrary are received within 15 days (Reply on reverse) (Not applicable to FMS) 1F - Replacement shipment requested (Not applicable to FMS) 1G - Reshipment not required. Item to be re-requisitioned 1H - No action required. Information only 1Z - Other action requested (See remarks)

13. FUNDING AND ACCOUNTING DATA

14a. TYPED OR PRINTED NAME, TITLE, AND PHONE NUMBER OF PREPARING OFFICIAL	14b. SIGNATURE
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15. DISTRIBUTION ADDRESSEES FOR COPIES







