DATE: 21 Jan 03

STATEMENT OF WORK (SOW)
for the
RESTORATION, OVERHAUL, AND REPAIR (ROR)
of the
AN/TPS-63B
RADAR SET
NSN 5840-01-355-0092

SOW-05-PMM112-07736C-1/1

1. This SOW identifies the work effort that shall be performed by the Contractor in the Restoration, Overhaul, and Repair (ROR) of the AN/TPS-63B Radar Set, NSN 5840-01-355-0092, part number 3D54669G01, CAGE 97942.

2. The attached manuscript has been reviewed and is concurred upon by the following persons:

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1.0 Scope. This SOW establishes general and specific requirements to be followed by the Contractor in the Restoration, Overhaul, and Repair (ROR) of the AN/TPS-63B Radar Set, NSN 5840-01-355-0092, part number 3D54669G01, CAGE 97942, (hereafter referred to as "Radar Set"). This document contains requirements to restore the Radar Set to Condition Code "A."

1.1 Definitions

Contractor: For the purposes of this SOW, Contractor is defined as a commercial or government entity.

Condition Code "A": For the purposes of this SOW, Condition Code "A" is defined as "serviceable and issuable without qualification, limitation or restriction".

Restoration: The process of upgrading an item to conform to the applicable technical specifications in order to assure compliance with specified operational capabilities, physical appearance, and configuration. It includes the repair or replacement of parts/components that have failed or are of marginal quality/reliability due to wear, deterioration, or damage as well as cosmetic reconditioning. Restoration shall include all applicable alignments/calibrations and verification that approved Engineering Change Proposals (ECPs) or modifications have been installed properly and are functional. In the event that non-approved configuration items are discovered, the equipment shall be restored to its approved configuration.

Overhaul: The process of totally reconditioning an item to conform to all current technical specifications for that item, thereby providing a life expectancy equivalent to similarly configured new equipment, through the repair/replacement of components that have failed, are of marginal performance, or are reasonably expected to fail due to wear/damage/deterioration. Additionally, structural/cosmetic repairs shall be performed to the degree that the item is comparable to new equipment. For the purposes of this SOW, all approved Engineering Change Proposals (ECPs) and modifications shall be installed/verified as part of the overhaul work effort.

Repair: The process of returning an unserviceable item to full operational status by repair/replacement of its component parts and performing any alignments/calibrations as may be necessary. Cosmetic/structural repairs are not included in the repair process unless those repairs impede the operational functionality of the item.

Marginal Quality: Deteriorated or damaged parts that are reasonably anticipated to fail thereby significantly reducing the expected reliability of an assembly/equipment. An expanded

definition and associated requirements for replacement of parts/components adjudged to be of marginal quality is contained in MIL-STD-2110 (EC). Specific requirements of this SOW, along with the general requirements as contained in MIL-STD-2110 (EC), shall be used to identify and necessitate the replacement of marginal quality items.

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 Supplements thereto which are 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. Any remaining conflicts shall be resolved at the discretion of the Logistics Management Specialist (LMS) of Marine Corps Systems Command (MCSC), Battlespace Management and Air Defense Systems (BMADS), who can be contacted at the following e-mail address: SMBmatcombmads@matcom.usmc.mil. The mailing address is: Commander, Marine Corps Systems Command, Attn: Logistics Management Specialist (BMADS), 814 Radford Blvd., Suite 20343, Albany, GA 31704-0343. The commercial telephone number is (229) 639-5036, or DSN 567-5036. Facsimiles may be sent to commercial telephone number (229) 639-6545 or DSN 567-6545, Attn: Logistics Management Specialist (BMADS).

2.1 Military Specifications

MIL-A-8625	Anodic Coatings for Aluminum and Aluminum Alloys
MIL-C-5541	Chemical Conversion Coatings on Aluminum and Aluminum Alloys

2.2 Military Standards

MIL-STD-129	DoD Standard Practice for Military Marking
MIL-STD-2073-lD	DoD Standard Practice for Military Packaging
MIL-STD-2110 (EC)	Restoration, Overhaul, and Repair of Electronic Equipment

2.3 Other Government Documents and Publications

Engineering Drawing 3D54669, CAGE 97942	Modification Drawing, Radar Set AN/TPS-63B
Engineering Drawing 3D54669, CAGE 97942	Parts List, Modification Kit, Radar Set AN/TPS-63B
ELEX-R-104B	System Specifications for the AN/TPS-63B
DoD 4000.25-1-M	Military Standard Requisitioning and Issue

	Procedures (MILSTRIP)
SL-3-07736C (PCN 12307736200)	Components List, Radar Set AN/TPS-63B
TI-4400-15/1A (PCN 16738353000)	Packaging, Handling, Storage, and Transportation of Electrostatic Discharge Sensitive Items
TM-07736C-14/1-1 (PCN 18407736000)	System, Radar Set AN/TPS-63B
TM-07736C-14/1-2 (PCN 18407736100)	System Technical Description, Radar Set AN/TPS-63B
TM-07736C-14/3 (PCN 18407736400)	Operation Instructions, Radar Set AN/TPS-63B
TM-07736C-14/14 (PCN 18407737500)	Maintenance Standards, Radar Set AN/TPS-63B
TM-4750-15/1 (PCN 18204750000)	Painting and Registration Marking of Marine Corps Combat and Tactical Equipment
TM-4750-15/2-8 (PCN 18204750800)	Camouflage Paint Patterns

Military Handbook (For Guidance)

MIL-HDBK-61	Configuration Management Guidance

2.4 Industry Standards

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

Industry Standard (For Guidance)

ANSI/EIA-649	National Consensus Standard for Configuration Management

Copies of Military Standards and Specifications 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 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: Contracts Department (Code 891), P.O. Drawer 43019, 814 Radford Blvd., Marine Corps Logistics Bases, Albany, GA 31704-3019, 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, GA 31704-0320, commercial telephone number (229) 639-6476 or DSN 567-6476.

3.0 Requirements

3.1 General Requirements

3.1.1 This SOW establishes uniform standards and procedures as applicable to the entire ROR process (to include, an initial evaluation of the equipment's condition, maintenance procedures, selection and use of parts/materials, identification/marking of the equipment, and preservation/packing for shipment). Although this SOW, along with the referenced documents (particularly MIL-STD-2110 (EC)), provide extensive information relative to the ROR process, the information and guidance is limited to establishing only the minimum requirements essential to perform the ROR in order to restore the Radar Set to Condition Code "A". Additional guidance may be provided by the LMS, as well as other approved commercial/industry practices and standards. Requests for additional guidance shall be referred to the LMS, MCSC (BMADS) at commercial telephone number (229) 639-5036, DSN 567-5036, FAX (229) 639-6545, or by e-mail to: SMBmatcombmads@matcom.usmc.mil.

3.1.2 The Contractor shall be responsible for all parts, materials, labor, facilities, tools, and test equipment necessary to Restore, Overhaul, and/or Repair the equipment in accordance with the references and this SOW. Upon successful completion of the ROR, the Radar Set shall be Condition Code "A".

3.1.3 Upon completion of the ROR, the Contractor shall be responsible for informing the LMS that the ROR has been completed and also for coordinating shipment of the Radar Set to the receiving unit.

3.1.4 The Contractor shall budget for the required temporary additional duty (TAD) funding as part of the ROR process and provide technical service personnel (actual number to be determined by the Contractor) to the receiving unit to perform joint acceptance testing.

3.2 Detailed Tasks

3.2.1 Pre-Induction Limited Technical Inspection (LTI). Upon receipt of the Radar Set, Contractor technical personnel shall perform a Pre-Induction LTI on the Radar Set scheduled for ROR utilizing SL-3-07736C for inventory purposes. TM-07736C-14/1-1 and TM-07736C-14/3 shall be used for determination of operational status of the equipment. The pre-induction LTI (in Contractor format) shall identify any transportation related damages, any equipment shortages, long lead-time material requirements, and the overall condition of the Radar Set to be inducted for ROR. In the event of any transportation related damage(s), the cognizant Transportation Management Office (TMO) shall be notified in writing within five working days after receipt of the equipment.

The LMS shall be informed of any equipment shortages in order to coordinate resolution actions. Identification of required long lead-time materials and the overall condition are envisioned to assist ROR management personnel in the reduction of overall ROR processing time.

3.2.2 Induction for ROR. Work shall commence within five days of receipt of the Radar Set at the Contractor's repair facility. The following documents and publications shall be referenced for informational purposes and to ensure compliance with established mandatory requirements: TM-07736C-14/1-1, TM-07736C-14/1-2, Modification Drawing 3D54669 CAGE 97942, Parts List 3D54669 CAGE 97942, MIL-STD-2110 (EC) and ELEX-R-104B.

3.2.3 Aluminum and aluminum alloy hardware shall be treated, as required, in accordance with MIL-A-8625 or MIL-C-5541 (as applicable) to provide protection from corrosion/oxidation.

3.2.4 All seals/gaskets and bearings/bearing assemblies within the gearbox and pedestal assemblies shall be replaced.

3.2.5 The air and coolant systems shall be overhauled and upon completion, proper pressure seal shall be verified at all fittings within these systems.

3.2.6 The coolant reservoir shall be filled with a mixture of 50% distilled water and 50% ethylene glycol prior to shipping.

3.2.7 As part of the ROR process of the RF transmission line system, all o-rings shall be replaced.

3.2.8 Shelter skids shall be inspected for wear and damage, and repaired/replaced as necessary.

3.2.9 Unless otherwise specified by the LMS (prior to induction for ROR), the Radar Set shall be painted with Chemical Agent Resistant Coating (CARC) utilizing the applicable green camouflage patterns in accordance with TM-4750-15/1 and TM-4750-15/2-8.

3.2.10 Following the ROR of the Radar Set, the Contractor shall conduct a full system operational test in accordance with TM-07736C-14/14. Also required are testing of the IFF system in conjunction with the AN/UPX-37 and AN/UPA-60 (for modes 1, 2, 3/A, and C only). The Acceptance Test/LTI form(s), in Contractor format, shall be used for documentation and quality assurance support.

3.3 Packaging, Handling, Storage, and Transportation (PHS&T)

3.3.1 The Contractor shall be responsible for preservation and packaging of the items being repaired under the terms of this Statement of Work. Items scheduled for shipment to all destinations shall be in accordance with the level "B" requirements of MIL-STD-2073-1D, Appendix A, Table A.VI., Electronic equipment.

NOTE: All shipments to overseas destinations are for immediate use and shall be via priority Military Airlift Command (MAC). No Level "A" requirements exist for this system.

3.3.2 Marking for shipment and storage shall be in accordance with MIL-STD-129.

3.3.3 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, via air-ride truck for CONUS, or priority air shipment via Military Airlift Command for OCONUS to the pre-designated site(s). The Marine Corps will be responsible for transportation costs associated with movement of the equipment to and from the Contractor.

3.4 Joint Acceptance Testing. The Contractor shall coordinate equipment receipt, emplacement, assembly, and joint acceptance testing with the receiving unit. Joint acceptance testing shall include a joint LTI, (inclusive of inventorying for possible shortages) and complete operational testing (inclusive of full system integration testing utilizing the unit's AN/TYQ-23(V), Tactical Air Operations Module). Any portion(s) of the full system operational testing identified in paragraph 3.2.10 (preceding) shall be performed at the receiving unit as part of the joint LTI, including redundant testing previously performed prior to shipment.

3.5 Configuration Management. The Contractor shall apply configuration control procedures to established configuration baseline 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 (ECP). If it is necessary to temporarily depart from the authorized configuration, the Contractor shall prepare and submit a Request for Deviation (RFD). MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing these configuration control documents.

3.6 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM). The Management Control Activity (MCA/Code 571-1) will coordinate Government Furnished Equipment/Government Furnished Materiel (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.

3.7 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.

3.8 Electrostatic Discharge (ESD) Control Program

3.8.1 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.

3.8.2 The Contractor shall plan for and use proper Electromagnetic Environmental Effects (E3) control procedures in the ROR process in conjunction with TI-4400-15/1A and JESD625-A.

3.9 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.

4.0 Reports. The Contractor shall provide the following reports as stated in the paragraphs below. Reports shall be submitted to the Logistics Management Specialist (LMS). The LMS can be reached during normal business hours at commercial telephone number (229) 639-5036, or DSN 567-5036. The electronic address is: SMBmatcombmads@matcom.usmc.mil. The mailing address is: Commander, Marine Corps Systems Command, Attn: Logistics Management Specialist (BMADS), 814 Radford Blvd., Suite 20343, Albany, GA 31704-0343. Facsimiles may be sent to commercial telephone number (229) 639-6545, or DSN 567-6545, Attn: Logistics Management Specialist (BMADS).

4.1 The Contractor shall develop a Test Data Report (TDR), in Contractor format, that portrays all test requirements/specifications (as collectively contained in the engineering drawings and technical manuals relative to the Radar Set, primarily TM-07736C-14/14), referencing acceptable parameters; specific results obtained during the final diagnostic/integration testing, and general remarks. Additionally, the TDR shall reference this SOW, the NSN, part number, and serial number of the Radar Set. Upon request, the Contractor shall submit a copy of the TDR electronically (preferred), via regular mail, or facsimile to the Logistics Management Specialist (BMADS).

4.2 The Contractor shall provide a copy (either electronic or hard copy submittal is acceptable) of the Pre-Induction LTI to the LMS within 15 calendar days after completion of the inspection. The LTI (in contractor format) shall consist of the TDR and extract of SL-3-07736C (as applicable to Supply System Responsibility items of the Radar Set).

4.3 The Contractor shall provide a hard copy (with the signature of the unit's Commanding Officer or his/her designated representative) of the Joint Acceptance LTI to the LMS within 15 calendar days after completion of the inspection. The Joint Acceptance LTI shall be similar to the Pre-Induction LTI, with additional provisions for the signature and identifying information of the unit's authorized acceptance representative. The unit will retain a copy of the Joint Acceptance LTI (with original signatures) in its files for the Radar Set. Electronic copies of this report are not acceptable.

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

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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

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER X
D. SYSTEM/ITEM: AN/TPS-63 Radar Set	E. CONTRACT/PR NO.	F. CONTRACTOR

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A001	Engineering Change Proposal (ECP)	Configuration Management

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-CMAN-80639C	SOW 3.5	MCLBA (583)

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	ASREQ	See Blk 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A			

16. REMARKS

Blk 4 - Contractor format submitted in .pdf or .doc format is authorized.

Blks 10 & 12 - ECPs shall be submitted for all proposed changes which permanently affect the baseline of a configuration item. ECPs will be reviewed and disposition determined within 30 calendar days upon receipt by the Government.

Block 14: ECPs shall be transmitted via E-Mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil

Distribution Statement A: Approved for Public Release; Distribution is Unlimited.

14. DISTRIBUTION

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Young Smith	30 Dec 2002	Robert D. Tenaglia	30 DEC 02

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER X
D. SYSTEM/ITEM AN/TPS-63 Radar Set	E. CONTRACT/PR NO.	F. CONTRACTOR

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A002	Request For Deviation	Configuration Management

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-CMAN-80640C	SOW 3.5	MCLBA (583)

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT		ASREQ	See Blk 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A	A		

17. PRICE GRO

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16. REMARKS

Blk 4 - Contractor format submitted in .pdf or .doc 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.

Block 14: RFDs shall be transmitted via E-Mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil

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G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Doug Smith	30 Dec 2002	Robert D. Turaglio	30 DEC 02