1 Dec 00

STATEMENT OF WORK (SOW)
for the
RESTORATION, OVERHAUL, AND REPAIR (ROR)
of the
AN/TPS-59(V)3
RADAR SET
NSN 5840-01-412-9653

SOW-03-844-2-07751B-1/1

1. This SOW identifies the work effort that shall be performed by the Contractor in the ROR of the AN/TPS-59(V)3 Radar Set, NSN 5840-01-412-9653, part number 77A109234G2, CAGE 03538.

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

LAWRENCE E HERNDON
Weapon Systems Manager
Radar Systems Section (Code 844-2)
MARCORSYSCOM, Albany, GA

VIRGINIA A WILSON
Team Leader
Inventory Management Specialist
(Code 844-2)
MARCORSYSCOM, Albany, GA

RICHARD E JONES
Team Leader
Equipment Specialist
(Code 844-2)
MARCORSYSCOM, Albany, GA

TABLE of CONTENTS

SECTION	PARAGRAPH	PAGE
1.0	Scope	1
2.0	Applicable Documents	1
2.1	Military Specifications	2
2.2	Military Standards	2
2.3	Other Government Documents and Publications	2
2.4	Industry Standards	3
3.0	Requirements	3
3.1	General Requirements	3
3.2	Detailed Tasks	4
3.3	Packaging, Handling, Storage, & Transportation (PHS&T)	5
3.4	Joint Acceptance Testing	5
3.5	Configuration Management	5
3.6	Government Furnished Equipment/Materiel	6
3.7	Electromagnetic Environmental Effects (E3) Procedures	6
3.8	Quality Assurance Provisions	6
4.0	Reports	6

STATEMENT OF WORK (SOW)
for the
RESTORATION, OVERHAUL, AND REPAIR (ROR)
of the
AN/TPS-59(V)3
RADAR SET
NSN 5840-01-412-9653

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-59(V)3 Radar Set, NSN 5840-01-412-9653, part number 77A109234G2, CAGE 03538, less the following major assemblies; Equipment Transport Shelter, S-675/TPS59, Data Processor Control Group, OL-576/TPS-59, and the Power Distribution Box, SB-4171/TPS59. In order to ensure that a complete understanding of all requirements, this SOW and the individual SOWs referenced in section 2 should be reviewed in their entirety. The individual SOWs referenced in section 2 apply to each of the major assemblies which comprise the AN/TPS-59(V)3 Radar Set.

1.1 Definitions

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

Condition Code "A": 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/Modifications have been installed properly and are functional. In the event that non-approved configuration items are discovered, the equipment shall be returned to its current 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 Weapon System Manager (WSM): e-mail address- MbMatcom844-2@matcom.usmc.mil, mailing address- Commander, Attn: (Code 844-2), Marine Corps Systems Command, 814 Radford Boulevard Suite 20343, Albany, GA 31704-0343, telephone (229) 639-6553, DSN 567-6553.

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
MIL-R-29466C	System Specifications for the AN/TPS-59(V)3

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

SOW-03-844-2-8C778B-1/1	Statement of Work for ROR of the Antenna-Transmitter Group, OE-340/TPS-59
SOW-03-844-2-09088A-1/1	Statement of Work for ROR of the SET-15 Antenna-Transmitter Group, OE-442/TPS-59
SL3-07751B (Draft)	Components List, Radar Set AN/TPS-59(V)3
TI 4400-15/1	Packaging, Handling, Storage and Transportation of Electrostatic Discharge Sensitive Items

TM-07751B-14/1	Operation and Maintenance Instructions, Radar Set AN/TPS-59(V)3
TM-07751B-14/9	Software Functional Description, Radar Set AN/TPS-59(V)3
TM-4750-15/1	Painting and Registration Marking of Marine Corps Combat and Tactical Equipment
TM-4750-15/2-8	Painting and Registration Marking of Marine Corps Combat and Tactical Equipment (contains patterns)
77A109234	(Assembly level) Engineering Drawing, Radar Set AN/TPS-59(V)3
77A109234G2	Parts List, Radar Set AN/TPS-59(V)3

Military Handbooks (For Guidance)

MIL-HDBK-61	Configuration Management Guidance

2.4 Industry Standards

JESD625-A	Requirements for Handling Electrostatic-Discharge-Sensitive (ESDS) Devices
ANSI/ISO/ASQC Q9002-1994	Quality Systems - Model for Quality Assurance in Production, Installation, and Servicing

Industry Standards (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, Telephone (215) 697- 2179 or DSN 442-2179, or http://dodssp.daps.mil. Copies of other government 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 Base, 814 Radford Blvd., Albany, GA 31704-1128, commercial telephone number (229) 639-6761 or DSN 567-6761. Copies of engineering drawings shall be obtained from: Life Cycle Management Center, Attn (Code 851-3), 814 Radford Blvd Suite 20320, Albany GA 31704-0320, commercial telephone number (229) 639-6410 or DSN 567-6410.}

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 provide extensive information relative to the ROR, the information and guidance is limited to establishing only the minimum requirements essential to perform the ROR process to restore the Radar Set to Condition Code "A". Additional guidance may be provided by the WSM, as well as other approved commercial/ industry practices and standards.

3.1.2 The Contractor shall be responsible for all parts, materials, labor, facilities, tools, and test equipment {with the exception of the Radar Environmental Simulator (RES) referenced in paragraph 3.2.5} necessary to restore, overhaul, and/or repair the equipment in accordance with the references and this SOW.

3.1.3 Upon completion of the ROR, the Contractor shall be responsible for informing the WSM that the AN/TPS-59(V)3 ROR has been completed and coordinating shipment of the Radar Set (less those items previously excepted in the SOW Scope) 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 LTI: Upon receipt of the Radar Set, Contractor technical personnel shall perform a Pre-Induction Limited Technical Inspection (LTI) on the Radar Set scheduled for ROR utilizing SL3-07751B and TM-07751B-14/1 for inventory and determination of operational status of the equipment. The LTI shall identify any shortages, long lead-time material requirements, initial Space Probe Antenna Characterization System (SPACS) testing results, and the overall condition of the Radar Set to be inducted for ROR. The WSM 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. Furthermore, the LTI shall include identification of any transportation related damages incurred in-transit. In the event of any transportation related damage(s), the cognizant Transportation Management Office shall be notified, in writing, within 5 working days.

3.2.2 Induction for ROR: Work shall commence within 5 days of receipt of the Radar Set at the Contractor's repair facility. TM-07751B-14/1, TM-07751B-14/9, 77A109234, 77A109234G2, and MIL-R-29466C (in particular) should be referenced for informational purposes and to ensure compliance with established mandatory requirements. Additionally, each of the SOWs for the Radar Set's major assemblies (~~SOW-03-844-2-8B548B-1/1,~~ SOW-03-844-2-8C778B-1/1, ~~SOW-03-844-2-8I023B-2/1~~, SOW-03-844-2-09088A-1/1, and ~~SOW-03-844-2-SB4171-2/1~~) should be referenced to ensure compliance with mandatory requirements as applicable to those assemblies.

3.2.3 Aluminum and aluminum alloy hardware shall be treated, as required, in accordance with MIL-A-8625 or MIL-C-5441 (as applicable) to provide protection from corrosion/oxidation.

3.2.4 Unless otherwise specified by the WSM (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.

3.2.5 Following ROR of the Radar Set, the Contractor shall conduct a full system operational test, to include testing of Tactical Ballistic Missile tracking functionality utilizing the Radar Environmental Simulator (RES) and final SPACS test. The (Contractor format) Acceptance Test/LTI form(s) shall be used for documentation and quality assurance support.

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

3.3.1 Upon successful completion of final testing and certification of condition code "A" status, the Contractor shall be responsible for preservation, packaging, and coordinating for shipment items to be delivered under the terms of this statement of work. All items shall be level B packed in accordance with the requirements of MIL-STD-2073-1D, Appendix A, Table A.VI., Electronic Equipment. Since any overseas shipments must be made via priority Military Airlift Command (MAC) and all shipments will result in immediate use, no level A preservation, packing, & packaging requirements exist.

3.3.2 Marking 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 Radar Set(s). 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 Limited Technical Inspection (inclusive of inventorying for possible shortages) and complete operational testing {inclusive of full system integration testing utilizing the RES and unit's AN/TYQ-23(V), Tactical Air Operations Module}.

3.5 Configuration Management

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. MIL-HDBK-61 (paragraph 4.2 and Table 4-6) and ANSI/EIA-649 (paragraph 5.3.1) provide guidance for preparing this configuration control document. If it is necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request for Deviation. MIL-HDBK-61 (paragraph 4.3 and Table 4-9) and ANSI/EIA-649 (Paragraph 5.3.4) provide guidance for preparing this configuration control document.

3.6 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM)

The Management Control Activity (MCA/Code 827-2) 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/GFM Accountability Agreement to the contractor for signature to establish a chain of custody and identify property responsibilities for Marine Corps assets. The MCA, in conjunction with the WSM, reserve the right to deny any requests for GFE/GFM. Under no circumstances shall denial of such requests form a basis for either work stoppages or delays in delivery.

3.7 Electromagnetic Environmental Effects (E3) Procedures

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

3.8 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 Systems - Model for Quality Assurance in Production, Installation, and Servicing.

4.0 REPORTS

4.1 The Contractor shall develop a Test Data Report (TDR) that portrays all test requirements/specifications (as collectively contained in the engineering drawings and technical manuals relative to the Radar Set), 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, a copy of the TDR shall be submitted electronically (preferred), via regular mail, or facsimile, to the WSM within 30 calendar days after completion of testing. Electronic address is: "MbMatcom844-2@matcom.usmc.mil". Mailing address is: Commander, Attn: (Code 844-2) , Marine Corps Systems Command, 814 Radford Boulevard Suite 20343, Albany, GA 31704-0343. Facsimiles may be sent to commercial (229) 639-5498 or DSN 567-5498, attention Weapons System Manager, Code 844-2.

4.2 The Contractor shall provide a copy (either hard copy or electronic submittal is acceptable) of the Pre-Induction LTI to the WSM within 15 calendar days after completion of the inspection. The LTI (Contractor format) shall consist of the TDR and extract of SL3-07751B (as applicable to Supply System Responsibility items of the Radar Set). Electronic address is: "MbMatcom844-2@matcom.usmc.mil". Mailing address is: Commander, Attn: (Code 844-2), Marine Corps Systems Command, 814 Radford Boulevard Suite 20343, Albany, GA 31704-0343. Facsimiles may be sent to commercial (229) 639-5498 or DSN 567-5498, attention Weapons System Manager, Code 844-2.

4.3 The Contractor shall provide a hard copy (with the signature of the unit's Commanding Officer or his designated representative) of the Joint Acceptance LTI to the WSM 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. Mailing address is: Commander, Attn: (Code 844-2), Marine Corps Systems Command, 814 Radford Boulevard Suite 20343, Albany, GA 31704-0343. 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)

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

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
AN/TPS-59(V)3 Radar Set		

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

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-CMAN-80639C	SOW 3.5	MCLBA (851)

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		

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
MCLBA (851-2)	0	1	0
15. TOTAL →	0	1	0

16. REMARKS

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

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.

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.

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
James C Clark	11/1/00	[signature]	30 Nov 00

DD FORM 1423-1, AUG 96 (EG) PREVIOUS EDITION MAY BE USED.

Designed using Perform Pro, WHS/DIOR, Aug 96

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
D. SYSTEM/ITEM: AN/TPS-59(V)3 Radar Set	E. CONTRACT/PR NO.	F. CONTRACTOR

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A002	Request For Deviation	Configuration Management	18. ESTIMATED TOTAL PRICE

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-CMAN-80640C	SOW 3.5	MCLBA (851)

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			

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
MCLBA (851-2)	0	1	0
15. TOTAL →	0	1	0

16. REMARKS

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

Blks 10 & 12 - RFDs shall be submitted to obtain authorization to deliver nonconforming meterial which does not meet the 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.

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
James C Park	11/1/00	[illegible]	30 Nov 00

DD FORM 1423-1, AUG 96 (EG) PREVIOUS EDITION MAY BE USED.

Designed using Perform Pro, WHS/DIOR, Aug 96