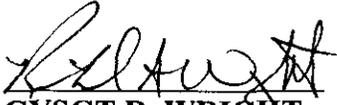


SOW-01-844-1-88290B-2/1

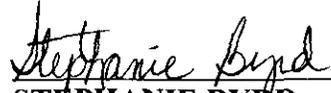
Date: 02/22/00

STATEMENT OF WORK (SOW)
For the Repair of the
DC-DC Converter
NSN 7021-01-098-5016
P/N: 197047-100; CAGE: 13973



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**STATEMENT OF WORK FOR THE
Repair of
DC-DC Converter
(7021-01-098-5016)
P/N: 197047-100; CAGE: 13973**

1.0 Scope

This Statement of Work (SOW) establishes, sets forth tasks, and identifies the work effort that shall be performed by the Contractor to repair the DC-DC Converter, 7021-01-098-5016; hereafter referred to as the DC-DC CONV. The DC-DC CONV is a component of the Tactical Air Operations Module (TAOM), AN/TYQ-23(V)1. This document contains requirements to restore the DC-DC CONV 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."

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-2073-1C	DoD Standard Practice for Military Packaging

Military Standards (For Reference Only)

MIL-STD-973	Configuration Management
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2.2 Other Government Documents and Publications: The issues of those documents cited below shall be used.

TM-08565A-24P/9	AN/TYQ-23 (V)1 Illustrated Parts Breakdown Manual
DOD 4000.25-1-M	MILSTRIP Manual
NAVICPINST 4491.2A	Requisitioning of Contractor Furnished Materiel From the Federal Supply System

2.3 Industry Standards

ANSI/EIA-625 Requirements for Handling Electrostatic-Discharge Sensitive ESDS Devices

ANSI/ISO/ASQC Q9003-1994 Quality Systems-Model for Quality Assurance in Final Inspection and Test

(Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Defense Automation Production Service Philadelphia, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Telephone (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: Commander, Marine Corps Logistics Bases, (Code 890) Attn: Contracting Officer, 814 Radford Blvd., Albany, Georgia 31704-1128, commercial telephone number (912) 439-6773 or DSN 567-6773. Copies of engineering drawings, if applicable, shall be obtained from Life Cycle Management Center, Attn: Code 825-3, 814 Radford Blvd STE 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 provide materials, labor, equipment, facilities and missing/repair parts, necessary to inspect, diagnose, restore, and test and calibrate the DC-DC CONV. Upon completion of repairing the subject item it shall be Condition Code "A".

3.2 Detail Tasks: The following tasks describe the different phases for repair of the DC-DC CONV:

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): A pre-induction inspection analysis shall be performed for each DC-DC CONV 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 Logistics Base, Albany, Georgia for disposition instructions, otherwise assign CC "M" and induct into the repair cycle. The Pre-Induction Checklist (Appendix A) shall be used to report all anomalies and shall be provided to the government in accordance with section 4.0 of this SOW.

3.2.2 Phase II (Repair): After pre-induction tests and inspections have been completed, repair of the DC-DC CONV 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 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 Contractor shall use appropriate technical documentation to restore the DC-DC CONV to condition code "A."

c. The following Publication shall be used to assist the Contractor:

TM-08565A-24P/9 AN/TYQ-23 (V)1 Illustrated Parts Breakdown Manual

3.2.3 Phase III (Inspection, Testing and Acceptance)

a. Inspection, Testing and Acceptance of the DC-DC CONV shall be conducted in accordance with the TM listed in section 3.2.2.c and documentation retained by the manufacturer.

b. The Contractor shall be responsible for conducting required tests in accordance with applicable procedures and specifications.

c. The Contractor shall be responsible for correcting any deficiencies identified during inspection/testing. MCLB (Code 844-1), 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 (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 shipment to overseas destinations shall be in accordance with the level A requirements of MIL-STD-2073-1C, Appendix A, Table A.VI., Electronic Equipment. Items being prepared for domestic shipment and immediate use shall be to level B requirements.

b. Marking of all items 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) Accountability: 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 the 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/Code 827-2), 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.

3.4 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 (CFM) is required for repair parts, the contractor shall requisition repair parts through the DoD Supply System. DoD 4000.25-1-M (MILSTRIP), Chapter 11 authorizes contractors to requisition through the DoD Supply System.

3.5 Electrostatic Discharge (ESD) Control Program: The contractor shall establish, implement and document an ESD control program following the guidelines provided in ANSI/EIA-625. ESD protective measures shall be used during manufacturing, handling, inspection, test, marking, packaging, storing and transporting ESD sensitive components.

3.6 Quality Assurance Provisions: The Contractor shall provide and maintain a Quality System that as a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9003-1994, Quality System Model for Quality Assurance in Final Inspection and Test. The program shall ensure quality throughout all areas to include 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.

3.7 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 an inspection.

3.8 Rejection: Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCLB Code 844-1, Albany, representative. The Contractor shall, at no additional cost to MCLB, Albany, Georgia, correct the deficiencies and repeat the verification

until an acceptable compliance with acceptance test procedures is demonstrated.

3.9 Configuration Control: The contractor shall apply configuration control procedures to establish configuration items. The contractor shall not implement configuration changes to an item's documented performance or design characteristics without receiving prior written authorization. If it is necessary to depart from the authorized configuration baseline, 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 a guide.

4.0 Reports

4.1 Pre-Induction Checklist: The Contractor shall complete the Pre-Induction Inspection Checklist (Appendix A) for each DC-DC CONV repaired. These documents shall be available prior to final acceptance testing. One copy of each document shall be provided to MCLB (Code 844-1) Albany, Georgia, after final acceptance of the DC-DC CONV.

4.2 Test/Inspection Report: The Contractor shall provide a Test/Inspection Report for each DC-DC CONV.

4.3 Repairable Item Inspection Report: The Contractor shall provide a Repairable Item Inspection Report for each DC-DC CONV. The report shall be identified by United States Marine Corps Serial Number.

4.4 Monthly Progress Report: The Contractor shall provide a Monthly Progress Report summarizing the progress and status of the DC-DC CONV Program.

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/Shipmet, Contract, etc)	7b. OFFICE ADMINISTERING CONTRACT	8. REQUISITIONER'S NUMBER (Requisition, Purchase Request, etc.)	

9. SHIPMENT, BILLING, AND RECEIPT DATA					10. DISCREPANCY DATA				11.
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)	2	

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

1. DISCREPANCY CODES	2. ACTION CODES
CONDITION OF MATERIAL C1 - In condition other than that indicated on release/receipt document C2 - Expired shelf life C3 - Damaged parcel post shipment SUPPLY DOCUMENTATION D1 - Not received D2 - Illegible or mutilated D3 - Incomplete, Improper or without authority (Only when receipt cannot be properly processed) MISDIRECTED MATERIAL M1 - Addressed to wrong activity OVERAGE/DUPLICATE SHIPMENTS 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 PACKING DISCREPANCY P1 - Improper preservation P2 - Improper packing P3 - Improper Marking P4 - Improper unitization	PRODUCT QUALITY DEFICIENCIES Q1 - Deficient material (Applicable to Grant Aid and FMS shipments) SHORTAGE OF MATERIAL 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 ITEM TECHNICAL DATA MARKINGS (i.e., Name Plates, Log Books, Operating Handbooks, Special Instructions, etc.) 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 WRONG ITEM (Identify requested item as a separate copy in Item 9. above) W1 - Incorrect item received W2 - Unacceptable substitute OTHER DISCREPANCIES 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
---	----------------

15. DISTRIBUTION ADDRESSEES FOR COPIES

16. FROM:	17. DISTRIBUTION ADDRESSEES FOR DISTRIBUTION
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18. TO:	Use window envelope to mail this document. Insert Name and address, including ZIP Code, starting one typing space below the left dot. Each address line must NOT extend beyond right dot. Address must not exceed four single space typing lines.
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19. IN ACCORDANCE WITH NOTICE OF DISCREPANCY ON FACE OF THIS FORM:

a. MATERIAL <input type="checkbox"/> HAS BEEN SHIPPED <input type="checkbox"/> WILL BE SHIPPED	DOCUMENT NUMBER	b. <input type="checkbox"/> NO RECORD OF SHIPMENT. RESUBMIT REPORT TO PROPER OFFICE UNDER
c. <input type="checkbox"/> AN ADJUSTMENT IN BILLING HAS BEEN/WILL BE PROCESSED	<input type="checkbox"/> CREDIT <input type="checkbox"/> DEBIT	d. <input type="checkbox"/> INVOICE/BILL ATTACHED e. <input type="checkbox"/> PROOF OF DELIVERY

f. AN ADJUSTMENT IN BILLING FOR THIS REPORTED DISCREPANCY WILL NOT BE PROCESSED FOR THE FOLLOWING REASON WHICH IS CITED IN THE INDICATED REGULATION

(1) REASON FOR NOT PROCESSING	(2) PRESCRIBING REGULATION
(a) DISCREPANCY WAS NOT REPORTED WITHIN THE TIME FRAMES ALLOWED AND/OR	(a) CHAPTER 5 OF THE GSA HANDBOOK, DISCREPANCIES OR DEFICIENCIES IN GSA OR DOD SHIPMENTS, MATERIALS, OR BILLINGS (FPMR 101.26.8)
(b) DOLLAR VALUE DOES NOT MEET THE CRITERIA PRESCRIBED IN THE REGULATION OR AGREEMENT INDICATED IN 191(2)	(b) CHAPTER 2 AND/OR 7 OF DOD 4000 25 7 M. MILITARY STANDARD BILLING SYSTEM (MILBILLS) AND/OR DD 1513, U.S. DOD OFFER AND ACCEPTANCE, AS APPLICABLE

20. THE FOLLOWING DISPOSITION IS TO BE MADE OF THE REFERENCED MATERIAL

<input type="checkbox"/> PROCESS FOR DISPOSAL IN ACCORDANCE WITH SERVICE/AGENCY DIRECTIVES	<input type="checkbox"/> REPRESENTATIVE WILL CALL FOR DISCUSSION CONCERNING DISPOSITION	DAYS
<input type="checkbox"/> RETAIN MATERIAL AT NO CHARGE	<input type="checkbox"/> MATERIAL WILL BE PICKED UP IN:	DAYS

c. SHIP MATERIAL *Specify location)*

(1) GBL APPROPRIATION CHARGEABLE:

(2) CHARGES COLLECT - VIA: FREIGHT EXPRESS PARCEL POST

(3) PARCEL POST LABEL ATTACHED (4) FREIGHT PREPAID

f. OTHER *(Specify)*

21. <input type="checkbox"/> IF MATERIAL IS STILL REQUIRED, SUBMIT NEW REQUISITION.	22. <input type="checkbox"/> REPLACEMENT WITH SATISFACTORY MATERIAL WILL BE MADE ON/OR BEFORE:	DATE
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23. REMARKS *(Continue on separate sheet of paper if necessary).*

24a. TYPED OR PRINTED NAME AND PHONE NUMBER OF PREPARING OFFICIAL	24b. SIGNATURE	24c. DATE
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CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 1704-0188

The Public reporting burden for this collection of information is authorized 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 this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government issuing Contract Officer for the contract/PR No. listed in block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ Other <u>XXX</u>
---------------------------	------------	---

D. SYSTEM/ITEM <u>DC-DC Converter</u>	E. CONTRACT/PR No.	F. CONTRACTOR
--	--------------------	---------------

1. DATA ITEM No. <u>A001</u>	2. TITLE OF DATA ITEM <u>Contractor's Progress, Status, and Management Report</u>	3. SUBTITLE <u>Monthly Progress Report</u>
---------------------------------	--	---

4. AUTHORITY (Data Acquisition Document No.) <u>DI-MGMT-80227</u>	5. CONTRACT REFERENCE <u>SOW 4.4</u>	6. REQUIRING OFFICE <u>MARCORLOGBASES (844)</u>
--	---	--

7. DD 250 REQ. <u>LT</u>	9. DIST STATEMENT REQUIRED <u>A</u>	10. FREQUENCY <u>MTHLY</u>	12. DATE OF FIRST SUBMISSION <u>See Blk 16</u>	14. DISTRIBUTION		
8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION <u>See Blk 16</u>	a. ADDRESSEE	b. COPIES		
				Draft	Reg	Repro

16. REMARKS Contractor format is authorized. Block 4 – Tailor DI-MGMT-80227 as follows: Delete paragraphs 10.3g, 10.3h, 10.3i, 10.3j, 10.3k, and 10.3n. Block 12 – The reporting period shall be from the first to last business day of each month. Initial submission shall be 60 days after contract. Block 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 (844-1)	0	1	0

G. PREPARED BY: <i>L. A. Wright</i>	H. DATE <u>2/22/00</u>	I. APPROVED BY: <i>Garney & Darling</i>	J. DATE <u>2/25/00</u>
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

