

Date: 11/01/00

STATEMENT OF WORK (SOW)
For the Inspect Repair Only As Necessary (IROAN) of the
DC-DC Converter
NSN: 7021-01-099-4766
P/N: 197087-101; CAGE: 13973

SOW-02-844-1-88429B-2/1

1. This SOW identifies the work effort that shall be performed by the Contractor to IROAN the DC-DC Converter; NSN 7021-01-099-4766; P/N 197087-101; CAGE 13973.
2. The attached manuscript has been reviewed and is concurred upon by the following signers:

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**STATEMENT OF WORK FOR THE
Inspect Repair Only As Necessary (IROAN) of
DC-DC Converter
(7021-01-099-4766)
P/N: 197087-101; 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 IROAN the DC-DC Converter, 7021-01-099-4766; hereafter referred to as the DC-DC CONV. The DC-DC CONV, Drawing Number 197087, CAGE 13973, is a component of the Tactical Air Operations Module (TAOM), AN/TYQ-23(V)4. 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."

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-2073-1D	DoD Standard Practice for Military Packaging

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
197087	Parts List, Converter, DC-DC, Type 1
197087-721	Test Specifications
197087-751	Test Procedures

DOD 4000.25-1-M	MILSTRIP Manual
NAVICPINST 4491.2A	Requisitioning of Contractor Furnished Materiel From the Federal Supply System

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

Industry Standards (For Guidance)

ANSI/EIA-649	National Consensus Standard for Configuration Management
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(Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Document Automation and Production Service, 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, Attn: Contracting Officer (Code 891), Marine Corps Logistics Base, 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 Life Cycle Management Center, Attn: Code 851-3, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6410 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 5 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 (Code 844-1), 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: In addition to the documents invoked in Section 3 of this SOW, the Contractor may use the following documents:

197087	Parts List, Converter, DC-DC, Type 1
197087-721	Test Specifications
197087-751	Test Procedures
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 documents and TM listed in section 3.2.2.b 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-2073-1D, 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)/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 Contractor 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 JEDS625A. 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 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 established configuration items. The contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. 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.

4.0 Reports: All report deliverables shall be submitted in hard copy to Commander (Code 844-1), Marine Corps Logistics Bases, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320, unless directed otherwise in a Contract Data Requirements List.

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.

16 FROM	17 DISTRIBUTION ADDRESSES 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 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.

a <input type="checkbox"/> PROCESS FOR DISPOSAL IN ACCORDANCE WITH SERVICE/AGENCY DIRECTIVES	b <input type="checkbox"/> REPRESENTATIVE WILL CALL FOR DISCUSSION CONCERNING DISPOSITION	DAYS
c <input type="checkbox"/> RETAIN MATERIAL AT NO CHARGE	d <input type="checkbox"/> MATERIAL WILL BE PICKED UP IN	DAYS
e <input type="checkbox"/> SHIP MATERIAL. <i>Specify location</i>		
(1) <input type="checkbox"/> GSA APPROPRIATION CHARGEABLE		
(2) <input type="checkbox"/> CHARGES COLLECT - VIA <input type="checkbox"/> FREIGHT <input type="checkbox"/> EXPRESS <input type="checkbox"/> PARCEL POST		
(3) <input type="checkbox"/> PARCEL POST LABEL ATTACHED (4) <input type="checkbox"/> FREIGHT PREPAID		
f <input type="checkbox"/> OTHER <i>(Specify)</i>		

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 XXX _____
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D. SYSTEM/ITEM DC-DC Converter	E. CONTRACT/PR No.	F. CONTRACTOR
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1. DATA ITEM No. A001	2. TITLE OF DATA ITEM Contractor's Progress, Status, and Management Report	3. SUBTITLE Monthly Progress Report
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4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-80227	5. CONTRACT REFERENCE SOW 4.4	6. REQUIRING OFFICE MARCORLOGBASES (844)
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7. DD 250 REQ. LT	9. DIST STATEMENT REQUIRED A	10. FREQUENCY MTHLY	11. AS OF DATE	12. DATE OF FIRST SUBMISSION See Blk 16	13. DATE OF SUBSEQUENT SUBMISSION See Blk 16	14. DISTRIBUTION			
						b. COPIES			
						a. ADDRESSEE	Draft	FINAL	
							Reg	Repro	

16. REMARKS Block 4 - 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>Richard A. Wright</i>	H. DATE 1 NOV 00	I. APPROVED BY: <i>Harvey D. Deering</i>	J. DATE 11/09/00
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DD FORM 1423-1, AUG 96 (EG)

PREVIOUS EDITION MAY BE USED

Page 1 of 1 Pages

Designed using Perform Pro, WHS/D/or, Aug 96

17. PRICE GROUP

18. ESTIMATED
TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ Other XXX _____
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D. SYSTEM/ITEM DC-DC Converter	E. CONTRACT/PR No.	F. CONTRACTOR
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1. DATA ITEM No. B001	2. TITLE OF DATA ITEM Repairable Item Inspection Report	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) DI-ILSS-80386	5. CONTRACT REFERENCE SOW 4.3	6. REQUIRING OFFICE MARCORLOGBASES (844)
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7. DD 250 REQ. LT	9. DIST STATEMENT REQUIRED A	10. FREQUENCY AS REQ	12. DATE OF FIRST SUBMISSION See Blk 16	14. DISTRIBUTION
8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION See Blk 16	a. ADDRESSEE	
			b. COPIES	
			Draft	
			FINAL	
			Reg	
			Repro	

16. REMARKS Block 4 - Contractor format is authorized. Block 10 - A separate report shall be submitted for each DC-DC Converter repaired. Blocks 12 & 13 - Submit report by Marine Corps Serial Number 30 days after completion of each DC-DC Converter. Block 14 - Reports shall be provided hard copy. Distribution Statement A: Approved for public release, distribution is unlimited.	MCLBA (844-1)	0	1	0
15. TOTAL	0	1	0	

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY: <i>Richard D. Wright</i>	H. DATE 1 NOV 00	I. APPROVED BY: <i>Harvey Deering</i>	J. DATE 11/09/00
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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 XXX _____
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D. SYSTEM/ITEM DC-DC Converter	E. CONTRACT/PR No.	F. CONTRACTOR
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1. DATA ITEM No. C001	2. TITLE OF DATA ITEM Request for Deviation (RFD)	3. SUBTITLE Configuration Management
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4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80640C	5. CONTRACT REFERENCE SOW 3.9	6. REQUIRING OFFICE MARCORLOGBASES 851
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7. DD 250 REQ. LT	9. DIST STATEMENT REQUIRED A	10. FREQUENCY AS REQ	11. AS OF DATE	12. DATE OF FIRST SUBMISSION See Blk 16	13. DATE OF SUBSEQUENT SUBMISSION	14. DISTRIBUTION			
8. APP CODE					a. ADDRESSEE	b. COPIES			
							Draft	FINAL	
								Reg	Repro

16. REMARKS Blocks 10 & 12 - RFDs shall be submitted to obtain authorization to deliver nonconforming material 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.	MCLBA 851-2	0	1	0
	15. TOTAL	0	1	0

G. PREPARED BY: <i>Sandra Edison</i>	H. DATE: 30 OCT 00	I. APPROVED BY: <i>Harvey Deering</i>	J. DATE: 11/09/00
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE