

STATEMENT
OF
WORK
(SOW)

FOR THE
CIRCUIT CARD ASSEMBLY
REBUILD

NSN 5999-01-108-9786

SOW-00-834-1-88653B-1/1
22 October 1999

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1.0 SCOPE. This Statement of Work (SOW), along with TM09764A-25&P/4A establishes and sets forth tasks and identifies the work efforts that shall be performed by the contractor in the rebuild of the Assault Amphibious Vehicle (AAV) Circuit Card Assembly. These documents contain minimum requirements to restore the Circuit Card Assembly to Condition Code "A". Condition Code "A" is defined as "serviceable/issuable without qualification, new, used, repaired or reconditioned material which is serviceable and issuable to all customers without limitations or restrictions". The Circuit Card Assembly is identified by National Stock Number 5999-01-108-9786.

1.1 BACKGROUND. Rebuild is defined as that maintenance technique to restore an item to a standard as near as possible to original or new condition in appearance, performance, and life expectancy. This is accomplished through complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable parts using original manufacturing tolerances and/or specifications and subsequent reassembly of the item.

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 and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

2.1 Military Standards

MIL-STD-2073-1C	DoD Standard Practice for Military Packaging
MIL-STD-129	DoD Standard Practice for Military Marking

Military Standards (Guidance Only)

MIL-STD-973	Configuration Management
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2.2 Other Government Documents and Publications

DoD 4160.21-M	Defense Utilization and Disposal Manual
TM 09674A-25&P/4A	Assault Amphibious Vehicle Model 7A1, AAV7A1
TM 2350-45	DMA Standard Procedures

TI-4700-45/6B	Installation of Repair/Overhaul Data Plates-All Equipment End Items, Assemblies and Components
DRAWING 6227570	Circuit Card Assembly
DTD	"Mears" Document Type Definitions

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

2.3 Industry Standards

ANSI/ISO/ASQC Q9002-1994 Quality Systems	Quality System-Model for Quality Assurance in Production, Installation and Servicing
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Copies of Military Specifications and Standards are available from the Naval Publications and Forms Center, (Attn: NPODS), 5801 Tabor Avenue, Philadelphia, PA 19120-5099. 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., Suite 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:

a. Provide materials, labor, facilities, and services necessary to troubleshoot, test, diagnose, engineer, integrate,install, repair, rebuild, and calibrate as required to make the Circuit Card Assembly fully operational. Upon completion of the rebuild, the Circuit Card Assembly shall be Condition Code "A".

b. Conduct final-on-site testing which shall be witnessed by Marine Corps Logistics Base MARCORLOGBASEALB, Albany, Georgia (Code 834-1) representative at his/her discretion.

c. The contractor shall be responsible for all structural, electrical, and mechanical requirements associated with the rebuild of the Circuit Card Assembly specified in TM 09674A-25&P/4A, TM 2350-45, TI-4700-45/6B, Drawing 6227570, MIL-STD-2073-1C, and MIL-STD-129.

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d. Ensure all Circuit Card Assembly unservicable and missing components meet the configuration of Naval Sea System Command Drawing 6227570.

e. All mandatory replacement parts shall be replaced 100%. Economical replacement parts may be reused if they meet the applicable inspection requirements in TM 2350-45. All parts shall be disposed of in accordance with DoD 4160.21-M

3.2 Detailed Tasks. The following tasks describe the different phases for the rebuild of the Circuit Card Assembly.

3.2.1 Phase – I – Rebuild. The contractor shall receive Circuit Card Assembly for rebuild. The contractor shall then disassemble the Circuit Card Assembly into components and conduct the rebuild process. The contractor shall rebuild components in accordance with the requirements in TM 09674A-25&P/4A and this SOW. The contractor shall be responsible for supplying all equipment, tools, test equipment, and materials for the conduct of this effort. The contractor shall be responsible for the integration and assembly of all components. The configuration identification for the Circuit Card Assembly is defined by the specifications annotated on current revision levels of Naval Sea System Command drawing 6227570. Upon completion of the rebuild, the Circuit Card Assembly shall be in condition code “A”. A Rebuild Data Plate shall be installed in accordance with TI-4700-45/6B

3.2.2 Phase II – Inspection, Testing, Acceptance.

a. Inspection, testing, and acceptance of the Circuit Card Assembly shall be conducted in accordance with TM 09674A-25&P/4A and ANSI/ISO/ASQC.

b. The performance of the contractor and the quality of work delivered, including all documentation of material 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. The MARCORLOGBASEALB representative shall be permitted to observe the work and/or to conduct inspections at any reasonable hour. Final inspection and acceptance shall be at the contractors.

c. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by the MCLB Albany representative. The contractor shall, at no additional cost to the Marine Corps, provide the following:

(1) Develop an approach for the correction of all deficiencies.

(2) Upon approval by the MARCORLOGBASEALB representative, the contractor shall correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedure requirements is demonstrated.

3.2.3 Packaging, Handling, Storage, and Transportation (PHS&T).

a. The contractor shall be responsible for preservation and packaging for items rebuilt under the terms of this SOW. Items being prepared for long term storage or shipment to overseas destinations shall be packaged and preserved in level “A” in accordance with MIL-STD-2073-1C, Appendix J, Table J.Ia, Specialized Preservation Code “GX”. All items subject to damage by electrostatic discharge shall be packed into a reusable fast-pack container.

b. Marking shall 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, and 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 Configuration Control

a. The contractor shall apply configuration control to established configuration items. The contractor shall not implement a design or performance change to items without receiving prior authorization from the contracting activity. The need to deviate from the written procedures or materials contained in the technical manuals/engineering drawings shall be requested by the electronic submission of a Request for Deviation(RFD)/Request for Waiver(RFW). MIL-STD-973, (paragraph 5.4.3 or 5.4.4, and Appendix E) may be used as guidance for preparing these configuration change documents. The contractor shall be furnished with MEARS Document Type Definitions (DTD), and either the associated template for the production of electronic RFD/RFWs or the MEARS CREATE application. All electronic change submissions shall be prepared in accordance with the DTD.

b. The submission of electronic files shall be accomplished by the originator placing the file RFD/RFW files on the MCLBA shared drive, FS Group Shared files 1@ALADMA05@Servers on "Street talk" (G) or equivalent address. The originator shall notify the contracting activity of a RFD residing on applicable server by e-mail, As an alternative to placing the RFD/RFW on the server, the originator may e-mail the document using .zip files.

3.4 Government Furnished Equipment (GFE) and Government Furnished Materiel (GFM)

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 a 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 822), Marine Corps Logistics Bases, Albany, Georgia, will coordinate required GFE and will maintain a central control on Marine Corps assets in the Contractors possession. The MCA will forward a GFE Accountability agreement to

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the Contractor Facility for signature to establish a chain of custody and property responsibilities for Marine Corps assets. The Contractor shall report receipt of all GFM and report consumption of GFM to the MCA.

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

3.6. Quality Assurance Provisions

3.6.1 The performance of the contractors quality of work performed, material provided and documents written shall be subject to in-process review and inspection by the

MARCORLOGBASEALB representative during contract performance. Inspection may be accomplished at any work location. The MARCORLOGBASEALB representative shall be permitted to observe the work/tasks accomplishment and/or to conduct inspections at any reasonable hour. Acceptance Tests shall be held in-plant. The MARCORLOGBASEALB representative requires, at a minimum, two weeks notification of acceptance test to allow for sufficient time to witness the tests. Inspection by the MARCORLOGBASEALB representative of all acceptance tests, materials and associated lists furnished hereunder does not relieve the contractor from any responsibility regarding defects or other failures to meet the SOW requirements which may be disclosed prior to final acceptance.

3.6.2 The contractor shall provide and maintain a Quality System that as a minimum, adheres Quality Assurance in Production, Installation, and Servicing. The contractors work shall be subject to in-process reviews and inspections for compliance with these procedures and standards by MARCORLOGBASEALB representative. Noncompliance with these quality assurance procedures resulting in degraded quality of work may result in a stop-work order requiring action by the contractor to correct the work performed and to enforce compliance with quality assurance procedures or face contract termination. Notwithstanding such inspection, it shall be the contractors responsibility to ensure that the entire system meets the performance requirements of this SOW.

3.6.3 Quality assurance operations performed by the contractor shall be subject to the MARCORLOGBASEALB representative's verification at any reasonable hour. The MARCORLOGBASEALB representative's verification can include, but shall not be limited to the following:

a. Inspection of materials, products, assemblies, subassemblies, and documentation to assess compliance with quality standards.

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b. Surveillance of operations to determine that quality assurance, practices, methods, and procedures are being properly applied.

c. Inspections of deliverable products to assure compliance with all requirements of the Circuit Card rebuild process, this SOW, and applicable documents used herein.

3.6.4 Failure of the contractor to promptly correct deficiencies discovered, shall be reason for suspension of acceptance until corrective action has been made.

4.0 Reports/Documentation

4.1 Report/Documentation that are required:

a. The contractor shall provide a Monthly Parts Usage Report on each Circuit Card Assembly. The report shall be sequenced by Master Work Schedule Line Number and Production Number. (MWSLIN)

b. The contractor shall provide a monthly Production Status Report summarizing the progress and status of the Circuit Card Assembly.

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 <u> X </u>
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D. SYSTEM/ITEM Circuit Card Assembly - AAV	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM Production Status Report	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81255	5. CONTRACT REFERENCE SOW 4.1.b	6. REQUIRING OFFICE MCLBA (834-1)
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7. DD 250 RED LT	9. DIST STATEMENT REQUIRED A	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION		
8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES		
				Draft	Final	
					Reg	Repro

16. REMARKS Contractor format is authorized. Blk 4 - Delete the following paragraphs. These paragraphs do not apply to this deliverable: 10.1, 10.2.3, 10.2.5, 10.2.6, and 10.2.9. In paragraphs 10.2.4 and 10.2.7, replace the word "CLIN" with "MWSLIN" (Master Work Schedule Line Item Number.) Blks 10 & 12 -The report shall be submitted on the 10th of each month. The first submission shall be 30 days after the contract award. The Production Status Report shall be transmitted via E-Mail to the following address: HoffmanRE@matcom.usmc.mil Distribution Statement A: Approved for public release, distribution is unlimited.	14. DISTRIBUTION	a. ADDRESSEE	b. COPIES	
	MCLBA (834-1)	0	1	0
15. TOTAL	→	0	1	0

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY <i>RS Hoffman</i>	H. DATE 10/25/99	I. APPROVED BY <i>RS Hoffman</i>	J. DATE 10/25/99
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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>
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D. SYSTEM/ITEM Circuit Card Assembly - AAV	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. B001	2. TITLE OF DATA ITEM Parts Usage Report	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80704	5. CONTRACT REFERENCE SOW 4.1.a	6. REQUIRING OFFICE MCLBA (834-1)
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7. DD 250 REQ LT	8. DIST STATEMENT REQUIRED A	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION		
9. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSFF		b. COPIES	
				Draft	Final	
					Reg	Repro

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15. TOTAL	→	0	1	0

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ OTHER _____ <input checked="" type="checkbox"/>
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D. SYSTEM/ITEM Circuit Card Assembly - AAV	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. C001	2. TITLE OF DATA ITEM Request for Deviation	3. SUBTITLE Configuration Management
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4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80640	5. CONTRACT REFERENCE SOW 3.3	6. REQUIRING OFFICE MCLBA (825)
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7. DD 250 REQ LT	8. DIST STATEMENT REQUIRED A	9. FREQUENCY ASREQ	10. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION		
8. APP CODE	11. AS OF DATE	12. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEC			b. COPIES
					Draft	Final
					Reg	Repro

16. REMARKS MEARS test files shall be provided as an electronic submission. Any supporting documentation submitted as enclosures or figures to the MEARS text files shall be created in MS Word, MS Excel, or CCITT Group IV graphic files. Group IV graphic files shall include 1840A CAL data file header. Graphic density for drawings shall be delivered as 600dpi. RFDs or .zip files 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 (825-2)	0	1	0
15. TOTAL	→	0	1	0

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY Douglas Smith	H. DATE 9-14-99	I. APPROVED BY J.S. Hoffman	J. DATE 10/25/99
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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ OTHER _____ X
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D. SYSTEM/ITEM Circuit Card Assembly - AAV	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. C002	2. TITLE OF DATA ITEM Request for Waiver	3. SUBTITLE Configuration Management
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4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80641	5. CONTRACT REFERENCE SOW 3.3	6. REQUIRING OFFICE MCLBA (825)
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7. DD 250 REQ LT	8. DIST STATEMENT REQUIRED A	9. FREQUENCY ASREQ	10. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION		
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	MCLBA (825-2)	0	1 0
15. TOTAL	0	1	0

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G. PREPARED BY <i>Douglas Smith</i>	H. DATE 9/24/99	I. APPROVED BY <i>[Signature]</i>	J. DATE 10/25/99
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