

Statement of Work

1.0 Scope. This Statement of Work (SOW) defines the efforts required to produce the products required by this solicitation in accordance with the Documents listed below. The items being purchased are entitled "Telephone Circuit Line Jack Assembly, NSN: 5805-00-503-3337".

2.0 Applicable Documents. The following documents are applicable to the extent cited.

2.1 Military and Federal Stds

<u>Document No.</u>	<u>Document Title</u>	<u>Applicability</u>
NONE		

2.2 Military and Federal Specs

<u>Document No.</u>	<u>Document Title</u>	<u>Applicability</u>
NONE		

2.3 Other DoD Documents

<u>Document No.</u>	<u>Document Title</u>	<u>Applicability</u>
NONE		

2.4 Com'l Documents

<u>Document No.</u>	<u>Document Title</u>	<u>Applicability</u>
NONE		

3.0 Requirements. The contractor shall produce the items in the quantity set forth in Section B of the schedule in accordance with Documents listed above and this SOW. In the event of a conflict between the requirements of this SOW and any drawings for the item on contract, the requirements of this SOW shall govern.

3.1. Requirements for Packaging.

3.1.1 Packaging - All hardware items shall be packaged and marked IAW Section D of the contract.

3.2 Requirements for Configuration Control.

3.2.1 Configuration Baseline. The applicable Configuration Baseline (CB) for the listed Configuration Item (CI)/Computer Software Configuration Item (CSCI) is as follows:

<u>CI/CSCI</u>	<u>CB</u>
Telephone Line Trunk Jack Assy	SM-D-84429*

* Units manufactured under this contract shall conform to the requirements of drawing SM-D-84429. All other drawings provided in the bid set are furnished for information purposes only. The contractor may use these drawings at their own risk.

3.2.2 Configuration. Each CI/CSCI, as developed/built and delivered, shall conform to the cited CB and (if applicable) all subsequent CB's that will be made contractually binding by the Procuring Contracting Officer (PCO). Configuration changes not directly effecting the configuration baseline do not require Government approval prior to incorporation, but must be documented by the contractor.

3.2.3 Departures from CB. No changes or departures from the CB are acceptable except for changes or departures which are submitted in accordance with DI-MISC-80711A and are approved by the Government Configuration Manager (C Mgr.) or Configuration Management Officer (CMO) and which are made applicable to the contract by the PCO. Configuration Control shall be effected by the Configuration Control Documents (CCDs) as follows:

3.2.3.1 Engineering Change Proposal (ECP) includes both the engineering change and the supporting documentation by which the change is described and suggested. An ECP describes changes to the CI/CSCI and associated Government documents and data that are affected by the proposed engineering change.

3.2.3.1.1 A Notice of Revision (NOR) shows the detailed changes that must be made to technical documentation, except specifications, (one NOR per document) following approval of an ECP. The NOR is submitted as part of the ECP.

3.2.3.1.2 A Specification Change Notice (SCN) is used to delineate the exact change(s) in a specification that will be distributed to users when the ECP is approved. The SCN is submitted as part of the ECP. The SCN is not used for a military or federal document, only a Request for Waiver can be used for those documents.

3.2.3.1.3 Value Engineering Change Proposal (VECP) is the same as an ECP except there are proposed cost savings for the program. The contractor shall follow the guidance in Section I of this contract for VECPs.

3.2.3.2 Request for Waiver (RFW) describes a departure from configuration documentation for a specific number of units or period of time. Contractor shall identify the impact of the RFW on performance, operational readiness and logistics support of the affected CIs. The Government will require compensation for any RFW.

3.2.3.3 Contractor shall provide all supporting program or cost data with the CCD. The contractor shall uniquely and sequentially identify (including the use of the contract number) each ECP, VECP, NOR, SCN or RFW. The identification number should use less than 16 characters.

3.2.4 Identification of Authorized Personnel. The contractor shall identify to the PCO, Administrative Contracting Officer (ACO), and the technical office identified on the DD Form 1423 for DI-MISC-80711A, the name(s) of the official(s) of its organization who are authorized to submit CCDs 30 Days after Contract (DAC).

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188		
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 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 Contracting Officer for Contract/PR No. listed in Block E.								
A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP <input checked="" type="checkbox"/> TM OTHER				
D. SYSTEM/ITEM NSN: 5805-00-503-3337			E. CONTRACT/PR NO.		F. CONTRACTOR			
1. DATA ITEM NO.		2. TITLE OF DATA ITEM Scientific and Technical Reports			3. SUBTITLE Configuration Control			
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80711A			5. CONTRACT REFERENCE SOW Para 3.2.3		6. REQUIRING OFFICE AMSEL-LC-COM-C-SS			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED N/A	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION SEE ITEM 16		14. DISTRIBUTION			
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION SEE ITEM 16		a. ADDRESSEE		b. COPIES	
					Draft	Final		
						Reg	Repro	
16. REMARKS: Data Item Description DI-MISC-80711A: Delete Block 10 instructions entirely and follow instructions in SOW found at para 3.2. The contractor shall prepare and submit Configuration Control Documents in accordance with the SOW section for Configuration Management (Para 3.2.) when a change to or departure from a contractual baseline document is deemed necessary. All deliveries shall be in Microsoft WORD format, or as an alternative, in "Rich Text Format", on standard 3-1/2 inch diskettes formatted in Microsoft DOS-readable 720KB or 1.44MB capacity. Alternative delivery media may be discussed with the Contracting Officer prior to delivery.					AMSEL-LC-COM-C-SS	0	1	0
					PCO	0	1	0
					ACO	0	1	0
					QAR	0	1	0
					AMSEL-LC-LEO-E-ET	0	1	0
					AMSEL-LC-LEO-E-EP*	0	1	0
					*1 COPY VECP ONLY.	0	0	0
					15. TOTAL →	0	6	0
G. PREPARED BY John Santamaria AMSEL-LC-COM-C-SS Electronic Engineer		H. DATE 09 / 10 / 03	I. APPROVED BY Thomas Kosinski AMSEL-LC-COM-SS Chief, Switching Systems Branch		J. DATE 09 / 11 / 03			

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3.2.5 Documentation. The contractor shall document by serial number each products configuration, applicable documentation, maintenance support requirements and spares in relation to the contractor's configuration baseline. The data in use shall be available for government review and use.

3.2.6 Use of CB Data. The contractor shall assure that all necessary contractor's activities have access to and use of the contractually specified configuration baseline(s), approved changes and departures, and effectivity data. The data in use shall be available for government review and use.

3.3. Requirements for Final Inspection and Test. The contractor shall implement and maintain a Final Inspection and Test System that meets or exceeds the requirements established below. These requirements are commonly accepted practices employed by industry.

3.3.1 Quality System. The contractor shall establish/maintain an effective inspection and test system for final inspection and test of completed products.

3.3.2 Inspection and Testing Procedures. The contractor shall utilize documented procedures for final inspection and testing of finished products to ensure that all contract requirements are satisfied.

3.3.3 Inspection and Testing. The quality system shall assure that all final inspections and tests required to satisfy contract requirements are conducted.

3.3.4 Records. The contractor shall maintain adequate records of final inspections and tests to demonstrate that the product satisfies contract requirements.

3.3.5 Measuring, Testing, and Inspection Equipment. The contractor shall provide and maintain gages (including production tooling used for inspection purposes) and other measuring and testing equipment to assure that finished products conform to contract requirements. These devices shall be calibrated against certified measurement standards which are traceable back to national/international standards.

3.3.6 Inspection and Test Status. The contractor shall maintain a system for the identification of the final inspection and test status of all products.

3.3.7 Nonconforming Material. The contractor shall establish and maintain a system for controlling material which does not satisfy contract requirements, including procedures for its identification, segregation, and disposition (rework/repair, scrap, etc.).

3.3.8 Corrective Action. The contractor shall promptly act to correct nonconforming materials and processes to preclude the recurrence of the problem and to satisfy contract requirements.

3.3.9 Training Requirements. The contractor shall identify/provide for the training needs of their personnel performing inspections and tests.

3.3.10 Handling, Storage, Preservation, Packaging, and Shipping. The contractor shall control the handling, storage, preservation, packaging, and shipping to protect the quality of finished products.

3.4. Requirements for Contractor Performed First Article Testing.

3.4.1 General. The contractor shall perform First Article Testing (FAT) in accordance with FAR 52.209-3 (see Section I of this contract) and this SOW. As part of FAT, the contractor shall:

a. Select the test unit(s) used for FAT from the first production lot.

b. Develop the test procedures and plans necessary to demonstrate that these units conform to the requirements established by the applicable specification(s) and other technical data provided in this contract.(Para 3.4.4)

c. Notify the Government and test the First Article units. (Para 3.4.5)

d. Provide a First Article Test Report to the Government which documents the FAT results. (Para 3.4.6)

e. Insure all equipment used to take performance readings for acceptance tests are kept within the performance parameters delineated by the manufacturer of that equipment. All equipment manufactured by the contractor shall be listed and the parameters established and maintained for this equipment also.

3.4.2 Test Requirements. The following test requirements shall be verified as part of FAT:

The contractor shall perform FAT on 10 units (to be randomly selected from the first 100 production units) as follows:

1. Visual inspection for conformance to notes 1 through 18 and 24 through 26, and dimensions specified on drawing SM-D-84429. (all 10 FAT units)
2. Electrical Testing in accordance with note 21 of drawing SM-D-84429. (all 10 FAT units)
3. Mechanical Testing in accordance with note 22 of drawing SM-D-84429. (1 FAT unit)
4. Shock Testing in accordance with note 23 of drawing SM-D-84429. (all 10 FAT units)

3.4.3 Production of First Article Units. All FAT samples shall be assembled at the same location at which production units will be assembled, using the same parts, materials, and manufacturing processes to be employed for subsequent production.

3.4.4 Test Plan. The contractor shall prepare and submit a First Article Qualification Test Plan in accordance with DI-NDTI-81307 as implemented by the DD Form 1423 for DI-NDTI-81307. In addition to the information required by DI-NDTI-81307, this submission shall contain:

- a. The delineation and allocation of tests to be performed on each of the First Article units and the order of such tests (this may be prescribed in applicable technical data).
- b. Step-by-step test procedures for each test and the data sheets (see 3.4.6.3) to be employed to document the results of testing.
- c. Identification of required test facilities, equipment and personnel.
- d. Test milestones schedules and the contractor's test readiness posture.
- e. A table which cross references the paragraph number of the specification requirement (including a brief description of the requirement) and the associated paragraph number of the First Article Qualification Test Plan.

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A. CONTRACT LINE ITEM NO.		B. EXHIBIT	C. CATEGORY: TDP TM OTHER NDTI					
D. SYSTEM/ITEM NSN: 5805-00-503-3337			E. CONTRACT/PR NO.		F. CONTRACTOR			
1. DATA ITEM NO.	2. TITLE OF DATA ITEM First Article Qualification Test Plan			3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.) DI-NDTI-81307			5. CONTRACT REFERENCE SOW Para 3.4.4.		6. REQUIRING OFFICE AMSEL-LC-COM-C-SS			
7. DD 250 REQ DD	9. DIST STATEMENT REQUIRED N/A	10. FREQUENCY ONE/P	12. DATE OF FIRST SUBMISSION 90 DPTT		14. DISTRIBUTION			
8. APP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION SEE ITEM 16		a. ADDRESSEE	b. COPIES		
						Draft	Final	
						Reg	Repro	
16. REMARKS: Submit draft via LT. Government requires 45 days for review/comments. Submit final within 30 days of receipt of Government comments, via DD-250. Each draft and the final submission shall be delivered in Microsoft WORD format, or as an alternative, in "Rich Text Format", on standard 3-1/2 inch diskettes formatted in Microsoft DOS-readable 720KB or 1.44MB capacity. Alternative delivery media may be discussed with the Contracting Officer prior to delivery.					AMSEL-LC-COM-C-SS	1	1	0
					15. TOTAL →	1	1	0
G. PREPARED BY John Santamaria AMSEL-LC-COM-C-SS Electronic Engineer		H. DATE 09 / 10 / 03	I. APPROVED BY Thomas Kosinski AMSEL-LC-COM-SS Chief, Switching Systems Branch			J. DATE 09 / 11 / 03		

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3.4.5 Notice of FAT Performance. As required by FAR 52.209-3, written notices concerning the time and location of FAT shall be furnished to the PCO, the Administrative Contracting Officer and the Government Technical Activity listed in Block 6 of the DD Form 1423 for DI-NDTI-80809B.

3.4.5.1 Selection of First Article Samples. When Initial Production FAT applies to this contract (i.e., when FAR 52.209-3 ALT I and ALT II are specified in Section I), FAT samples shall be selected at random from the initial production lot.

3.4.5.2 Reporting of FAT Failures. Reporting of FAT failures shall be by the FAT Report, in lieu of any other reporting requirements specified in this contract. In addition, FAT failures shall be verbally reported to the Government's Quality Assurance Representative (QAR) and Government Technical Activity listed in Block 6 of the DD Form 1423 for DI-NDTI-80809B within twenty four hours of occurrence.

3.4.6 FAT Report. A FAT Report shall be prepared and submitted in accordance with FAR 52.209-3 and DI-NDTI-80809B as implemented by the DD Form 1423 for DI-NDTI-80809B. The FAT Report shall be

complete, accurate, and readable and shall provide sufficient data to determine that the hardware item meets all the requirements delineated in the contract. The report will include the following:

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D. SYSTEM/ITEM NSN: 5805-00-503-3337			E. CONTRACT/PR NO.		F. CONTRACTOR			
1. DATA ITEM NO.	2. TITLE OF DATA ITEM Test/Inspection Report				3. SUBTITLE First Article Test Report			
4. AUTHORITY (Data Acquisition Document No.) DI-NDTI-80809B			5. CONTRACT REFERENCE SOW Para 3.4.6.		6. REQUIRING OFFICE AMSEL-LC-COM-C-SS			
7. DD 250 REQ DD	9. DIST STATEMENT REQUIRED N/A	10. FREQUENCY OTIME	12. DATE OF FIRST SUBMISSION SEE ITEM 16		14. DISTRIBUTION			
8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE		b. COPIES		
16. REMARKS: Submit report of First Article Test results via DD 250 NLT 30 days after FAT. Submit revised report within 20 days after receipt of government comments. Government requires 30 days to provide comments/approval. All deliveries shall be in Microsoft WORD format, or as an alternative, in "Rich Text Format", on standard 3-1/2 inch diskettes formatted in Microsoft DOS-readable 720KB or 1.44MB capacity. Alternative delivery media may be discussed with the Contracting Officer prior to delivery.				AMSEL-LC-COM-C-SS		Draft	Final	
						Reg	Repro	
15. TOTAL →						0	1	0
G. PREPARED BY John Santamaria AMSEL-LC-COM-C-SS Electronic Engineer			H. DATE 09 / 10 / 03	I. APPROVED BY Thomas Kosinski AMSEL-LC-COM-C-SS Acting Chief, Switching Systems Branch			J. DATE 09 / 11 / 03	

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3.4.6.1. General Data.

- a. Contractor's name and address.
- b. Contract number.
- c. Nomenclature, type number and (if assigned) stock number of item represented by the First Article.
- d. Name and address of plant where First Article was fabricated and assembled.
- e. Place and date of performance of tests.

- f. Identification (including date) of applicable equipment specifications and associated amendments.
- g. Sample size or quantity submitted for test or inspection.

3.4.6.2 Cross Reference. A table which cross-references the paragraph numbers of the specification, the test procedures, and data sheet entry.

3.4.6.3 Test Results. Complete test results showing actual or quantitative observations and all required calculations. 'GO/NOGO' data is allowable (under certain circumstances) only with prior Government approval. Allowable tolerances for each parameter shall be presented. Test data should also include the date that the test was performed, name and signature of tester, name and signature of the Government verifier/witness (if applicable) and serial number of the equipment. Test results shall cite detailed qualitative and quantitative data results such as test categories, test conditions, test methods employed, and types of inspection and test equipment used during the test or inspection.

3.4.6.4 FAT Failures. FAT failures shall list all requirements not complied with during FAT. If none, this should be explicitly stated. For each requirement not met, a corrective action to remove the noncompliance will be proposed. This corrective action must include retest or other verification that the corrective action does remedy the problem/failure. The corrective action will address changes in design or manufacturing process which will preclude this deficiency in subsequent production units. Verified corrective action must be implemented prior to contractor entering into production.

3.4.6.5 FAT/Production Discrepancies. Any Government approved (see paragraph 3.4.3), difference between the parts, materials and processes used to manufacture FAT samples and production units shall be documented in the FAT report.

3.4.7 FAT Approval. FAT samples shall meet all contractual requirements or all variances shall be documented by Government approved waivers. First Article approval will be contingent upon the submission of a complete and acceptable FAT report to include verification of corrective action for reported FAT failures to include adequacy of identified changes to the design/manufacturing process.

3.4.8 FAT Samples and First Production Lot Inspection. If FAR 52.209-3 ALT II is specified in Section I, First Article units shall be utilized to satisfy initial production lot inspection requirements. If the quantity of First Article samples is less than that needed to satisfy first production lot sampling requirements, additional samples shall be selected at random from the production lot and inspected to meet first production lot acceptance requirements.

3.4.8.1 When Initial Production FAT (FAR 52.209-3 ALT I and ALT II) applies and additional units are tested to satisfy production acceptance requirements, failures for these additional units shall be reported as specified in this contract.

3.4.9. Disposition of First Article Samples. Upon successful completion of FAT, the contractor shall dispose of the FAT samples as follows:

3.4.9.1 All FAT samples may not be acceptable as production items. Those items which are not refurbishable shall not be delivered as production items. Items which are refurbishable and made fully compliant with