

ATTACHMENT 0002, sow, 3/1/2004
Statement of Work

1.0 **Scope.** This Statement of Work (SOW) defines the efforts required to produce the products required by this solicitation IAW the Documents listed below. The items being purchased are entitled " Five Spare Parts for AN/VVS-2 ".

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>
MIL-PRF-13830	Optical Components for Fire Control Instruments	REQUIRED
MIL-PRF-49148	Objective Lens Assembly	REQUIRED
MIL-PRF-49147	Eyepiece Lens Assembly	REQUIRED

2.3 **Other DoD Documents**

<u>Document No.</u>	<u>Document Title</u>	<u>Applicability</u>
SM-D-771334-1	Objective Lens Assembly	INTERFACE
SM-D-771456-1	Mount Housing Assembly	INTERFACE
SM-D-771474-1	Plate Assy	INTERFACE
SM-D-771335-1	Housing Assembly, Main	INTERFACE
SM-D-771327-2	Eyepiece Lens Assembly	INTERFACE

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 IAW 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 **Interchangeability/Interoperability** All spare parts are required to be form, fit, function interchangeable and interoperable without degradation of performance with previously fielded spare parts of the same kind as established by the current maintenance system of the U.S. Army. In addition, all manprint/man-machine interface characteristics shall be maintained as previously fielded items.

3.2. **Requirements for Packaging.**

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

3.3 Requirements for Configuration Control.

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

CB	CI/CSCI
SM-D-771334-1	Objective Lens Assembly
MIL-PRF-49148	Objective Lens Assembly
SM-D-771335-1	Housing Assembly, Main
SM-D-771474-1	Plate Assembly
SM-D-771456-1	Mount Housing Assembly
SM-D-771327-2	Eyepiece Lens Assembly
MIL-PRF-49147	Eyepiece Lens Assembly

3.3.2 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 affecting the configuration baseline do not require Government approval prior to incorporation, but must be documented by the contractor.

3.3.3 Departures from CB. No changes or departures from the CB are acceptable except for changes or departures which are submitted IAW 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 affected by the Configuration Control Documents (CCDs) as follows:

3.3.3.1 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.

3.3.3.1.1 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.

3.3.3.1.2 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.

3.3.3.1.3 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.

3.3.3.2 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.

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3.3.3.3 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.

3.3.4 **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. DD10AA		B. EXHIBIT A	C. CATEGORY: TDP <input checked="" type="checkbox"/> TM OTHER				
D. SYSTEM/ITEM Five Spare Parts for AN/VVS-2			E. CONTRACT/PR NO.		F. CONTRACTOR		
1. DATA ITEM NO. ADD1	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 3.3.3		6. REQUIRING OFFICE AMSEL-LC-IEW-N-II			
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		17. PRICE GROUP	
				Draft	Final	18. ESTIMATED TOTAL PRICE INSERT	
					Reg	IN	
					Repro	SECT. B	
16. REMARKS: Data Item Description DI-MISC-80711A: Delete Block 10 instructions entirely and follow instructions in SOW found at para 3.3. The contractor shall prepare and submit Configuration Control Documents IAW the SOW section for Configuration Management (Para 3.3.) 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-IEW-N-II	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 Susan F. Weir AMSEL-LC-IEW-N-II Electronic Engineer		H. DATE 3/1/2004	I. APPROVED BY Orinda M. Corwin AMSEL-LC-IEW-N-II Chief, Image Intensifier Branch			J. DATE 3/1/2004	

DD Form 1423-1, 1 Jun 90

3.3.5 **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.

3.3.6 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.

3.4 Requirements for Item Marking (Gov't Performance Design Items).

3.4.1. Part Number Marking. Each item delivered under contract, along with each assembly, sub assembly, and module, shall be legibly marked with the appropriate part number and manufacturer's identification. Hardware such as screws, nuts, bolts, etc., need not be marked. The marking shall become permanently part of the item after it is applied, and can be applied using deformation, tag, rubber stamp with permanent characteristics, etc. The marking shall not interfere with proper operation of the item, and shall have no deleterious effect on the item. Any item deemed unsuitable for marking as outlined herein shall be identified to the Contracting Officer for resolution as to marking requirement. This requirement may be entirely met by existing marking requirements contained within the drawings or specifications cited in this contract.

3.4.2. NSN Marking. In addition to the marking required by para 3.4.3 above, each item on contract listed in Section B of the contract, shall be identified with its Government assigned NSN. The intent of this requirement is to ensure that using personnel can identify the circuit card or assembly when it is removed from its assembly, and when it is received from stock as a spare part. The marking can be on a paper label, placed in a location that will not harm the item. If guidance is necessary to implement this requirement, contact the Contracting Officer for guidance.

3.4.3. Serial Number Marking.

3.4.3.1. Any item or subassembly which contains a serialization requirement shall have serial numbers applied to each item in the place provided (generally on a nameplate/serial number plate). In addition, the contractor shall obtain a block of serial numbers from the Government within 30 days of request from:

Commander, US Army Communications-Electronics Command
ATTN: AMSEL-LC-N-II.
Fort Monmouth, NJ 07703-5000

The contractor shall include the following information in the request:

- 1) Contract Number
- 2) Quantity of item on contract
- 3) Item's part number as noted in Section B of the contract.
- 4) Contractor's name and address.

3.4.3.2 The contractor shall maintain an accurate, current list of serial numbers for all manufactured items under this contract. Dates of manufacture, substitutions, shop changes, etc. shall be included on this list. The list shall be available for inspection by the PCO or government representative at any time during the life of the contract and for a period of 3 years following the completion of the contract.

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3.5. **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.

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

3.5.2 **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.

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

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

3.5.5 **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.

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

3.5.7 **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.).

3.5.8 **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.

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

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

3.6. Requirements for Conformance Testing.

3.6.1 Objective Lens Assembly. Each Objective Lens Assembly shall be inspected as specified in Table I. Presence of one or more defects shall be cause for rejection. Unless otherwise specified all tests shall be performed at ambient temperature, where ambient temperature is defined as +23°C ± 10°C. The objective lens shall meet the cleanliness requirement for optical systems as specified in MIL-PRF-13830.

TABLE I

INSPECTION	SOW PARA
Parts, Materials and Components Missing or not as Specified.	3.6.5.1
Marking	3.6.5.6
Workmanship	3.6.5.2
Treatment & Painting	3.6.5.7

3.6.1.1 Group A inspection. Objective lenses that have passed the examination specified in Table I, shall be tested IAW Table II. Failure of any test shall be cause for rejection of that unit. The contractor shall form assemblies which pass Group A inspection into lots.

TABLE II

INSPECTION	REQUIREMENT PARA. OF MIL-PRF-49148D
Effective focal length	3.5.1
Field of view	3.5.2
Modulation transfer function	3.5.4
Flange focal length	3.5.7

3.6.1.2 Group B inspection. Group B tests shall be conducted on objective lenses selected from lots, which have passed the Group A test. The contractor shall use sampling procedures. Test shall be conducted IAW Table III.

TABLE III

INSPECTION	REQUIREMENT PARA. OF MIL-PRF-49148D
Linear distortion	3.5.3
T-number	3.5.5
Veiling glare	3.5.6

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3.6.1.3 Group C inspection. Group C inspection of Objective lenses shall consist of the tests specified in Table VII and shall be performed on lots that have been subjected to and have met Group A inspection. The contractor shall use sampling procedures.

TABLE IV

INSPECTION	REQUIREMENT PARA. OF MIL-PRF-49148D
Temperature Extremes	3.6.1
Vibration	3.6.2
Shock	3.6.3
Immersion	3.6.4

3.6.1.3.1 Group C failures. Lots that fail Group C inspection shall be rejected or inspected 100% for the failed attribute at the contractor's option.

3.6.1.3.2 Disposition of Group C samples. Unless otherwise specified, samples which have been subjected to Group C tests shall be refurbished, pass the requirements of Group A tests and shipped against the requirements of the contract.

3.6.2 Mount Housing Assembly Shall be inspected IAW the following

3.6.2.1 Group A Inspection. Each Assembly shall be inspected IAW TABLE V. Presence of one or more defects shall be cause for rejection of that Assembly.

TABLE V

INSPECTION	SOW PARA
Parts, Materials and Components Missing or not as Specified.	3.6.5.1
Workmanship	3.6.5.2

3.6.2.2 Group B Inspection. Following successful completion of the inspections specified in Table V, assemblies shall be formed into lots for the purpose of Group B Inspection. Group B Inspection shall be performed on each lot. The contractor shall use sampling procedures. Failure of any sample shall result in 100% screening of that lot. A lot shall not exceed one month's production. Samples shall be selected when 50% or more of the projected lot has successfully completed the inspections of Table V. Each assembly selected as a Group B selection sample shall be subjected to the inspections of Table VI. Lots that fail Group B inspection shall be rejected or inspected 100% for the failed attribute at the contractor's option.

TABLE VI

INSPECTION	SOW PARA
Identification	3.6.5.3
Dimensions (see Table IV, Dimensional Inspections on drawing SM-D-771456)	3.6.5.4

3.6.3 Housing Assembly, Main Shall be inspected IAW the following:

3.6.3.1 Group A Inspection. Each Assembly shall be inspected IAW TABLE VII. Presence of one or more defects shall be cause for rejection of that Assembly.

TABLE VII

INSPECTION	SOW PARA
Parts, Materials and Components Missing or not as Specified.	3.6.5.1
Workmanship	3.6.5.2
Functional Verification	3.6.5.5

3.6.3.2 Group B Inspection. Following successful completion of the inspections specified in Table VII, assemblies shall be formed into lots for the purpose of Group B Inspection. Group B Inspection shall be performed on each Lot. The contractor shall use sampling procedures. Failure of any sample shall result in 100% screening of that lot. A lot shall not exceed one month's production. Samples shall be selected when 50% or more of the projected Lot has successfully completed the inspections of Table VII. Each assembly selected as a Group B inspection sample shall be subjected to the inspections of Table VIII. Lots that fail Group B inspection shall be rejected or inspected 100% for the failed attribute at the contractor's option.

TABLE VIII

INSPECTION	SOW PARA
Marking	3.6.5.6
Dimensions (see Table IV, Dimensional Inspections on drawing SM-D-771335)	3.6.5.4

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3.6.4 **Eyepiece Lens Assembly** Each Eyepiece shall be inspected in accordance with Table IX. Presence of one or more defects shall be cause for rejection.

TABLE IX

INSPECTION	REQUIREMENT PARA. OF MIL-PRF-49147D
Materials	3.4
Treatment and paintings	3.7
Marking	3.8
Workmanship	3.9

3.6.4.1 **Group A Inspection.** Eyepieces that have passed the examination specified in 3.6.4, shall betested in accordance with Table X in the order listed. Failure of any test shall be cause for rejection of that unit. Eyepieces which pass Group A inspection shall be formed into lots by the contractor.

TABLE X

INSPECTION	REQUIREMENT PARA. OF MIL-PRF-49147D
Diopter Setting	3.5.1
Resolution	3.5.2

3.6.4.2 **Group B Inspection.** Following successful completion of the inspections specified in Tables IX and X, assemblies shall be formed into lots for the purpose of Group B Inspection. Group B Inspection shall be performed on each lot. The contractor shall use sampling procedures. Failure of any sample shall result in 100% screening of that lot. A lot shall not exceed one month's production. Each assembly selected as a Group B selection sample shall be subjected to the inspections of Table XI. Lots that fail Group B inspection shall be rejected or inspected 100% for the failed attribute at the contractor's option.

TABLE XI

INSPECTION	REQUIREMENT PARA. OF MIL-PRF-49147D
Magnification	3.5.3
Transmission	3.5.4
Field of view	3.5.5
Field of flatness	3.5.6

3.6.4.3 **Group C Inspection.** This inspection shall consist of the tests specified in Table XII and shall be performed on lots that have been subjected to and have met Group A inspection. The contractor shall use sampling procedures.

TABLE XII

INSPECTION	REQUIREMENT PARA. OF MIL-PRF-49147D
Temperature Extremes	3.6.1
Immersion	3.6.2
Vibration	3.6.3
Shock	3.6.4

3.6.4.3.1 Group C Failures. Lots that fail Group C inspection shall be rejected or inspected 100% for the failed attribute at the contractor's option.

3.6.4.3.2 Disposition of Group C samples. Unless otherwise specified, samples which have been subjected to Group C tests shall be refurbished, pass the requirements of Group A tests, and shipped against the requirements of the contract.

3.6.5 INSPECTION METHODS

3.6.5.1 Parts, Materials and Components missing or not as specified. Each Assembly shall be visually inspected to verify that parts, materials and components are as specified.

3.6.5.2 Workmanship. Standards of workmanship shall be such that the assembly will meet all requirements of this specification and any referenced specifications or drawings.

3.6.5.3 Identification. Each assembly shall be visually inspected to verify identification conforms to drawing requirements.

3.6.5.4 Dimensions. Each assembly shall be inspected to the requirements of drawings using special or commercial inspection equipment as appropriate.

3.6.5.5 Functional Verification. Each assembly shall be functionally verified IAW drawing.

3.6.5.6 Marking. Each assembly shall be visually inspected to verify marking conforms to drawing requirements.

3.6.5.7 Treatment and Painting. Treatment and painting shall be anti-reflective, shall be rust resistant and as specified on applicable drawings unless otherwise specified in the contract or purchase order.

3.7. Requirements for Contractor Performed First Article Testing.

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

- a. Select the 5 test unit(s) of each item 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 3.7.4)
- c. Notify the Government and test the First Article units. (Para 3.7.5)
- d. Provide a First Article Test Report to the Government that documents the FAT results. (Para 3.7.6)
- 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.

3.7.2 **Test Requirements.** The test requirements of Table XIII shall be verified as part of FAT Presence of one or more defects shall be cause for rejections of that assembly, and may be cause for rejection of the First Article Inspection Sample.

TABLE XIII

TITLE	DOCUMENT NUMBER	FAT PARA & TABLE
Objective Lens Assy	MIL-PRF-49148D	PARA. 4.2
Mount Housing Assy	SM-D-771456-1	Table XIV below
Housing Assembly, Main	SM-D-771335-1	Table XV below
Plate Assy	Not Required	Not Required
Eyepiece Lens Assy	MIL-PRF-49187D	PARA. 4.2

TABLE XIV - Inspections for Mount Housing Assy

INSPECTIONS	SOW PARA
Parts, Materials and Components Missing or not as Specified.	3.6.5.1
Workmanship	3.6.5.2
Identification	3.6.5.3
Dimensions	3.6.5.4

TABLE XV - Inspections for Housing Assembly, Main

INSPECTION	SOW PARA
Parts, Materials and Components Missing or not as Specified.	3.6.4.1
Workmanship	3.6.4.2
Marking	3.6.4.6
Dimensions	3.6.4.4
Functional Verification	3.6.4.5

3.7.3 **Production of First Article Units.** 5 FAT samples for each item 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.

3.7.4 **Test Plan.** The contractor shall prepare and submit a First Article Qualification Test Plan IAW 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 3.7.6.3) 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.

CONTRACT DATA REQUIREMENTS LIST <i>(1 Data Item)</i>					Form Approved OMB No. 0704-0188		
<small>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.</small>							
A. CONTRACT LINE ITEM NO. 0011AA		B. EXHIBIT B	C. CATEGORY: TDP TM OTHER NDTI				
D. SYSTEM/ITEM Five Spare Parts for AN/VVS-2			E. CONTRACT/PR NO.		F. CONTRACTOR		
1. DATA ITEM NO. B001	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 3.7.4.		6. REQUIRING OFFICE AMSEL-LC-IEW-N-II			
7. DD 250 REQ DD	9. DIST STATEMENT REQUIRED N/A	10. FREQUENCY ONE/P	12. DATE OF FIRST SUBMISSION 60 DPTT	14. DISTRIBUTION			
8. APP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION SEE ITEM 16	a. ADDRESSEE		b. COPIES	
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-IEW-N-II	Draft	Final	
						Reg	Repro
					1	1	0
				15. TOTAL	1	1	0
G. PREPARED BY Susan F. Weir AMSEL-LC-IEW-N-II Electronic Engineer		H. DATE 3/1/2004	I. APPROVED BY Orinda M. Corwin AMSEL-LC-IEW-N-II Chief, Image Intensifier Branch		J. DATE 3/1/2004		

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE INSERT IN SECT. B

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3.7.5 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.

3.7.5.1 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.

3.7.5.2 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.

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3.7.6 FAT Report. A FAT Report shall be prepared and submitted IAW 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:

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. 0012AA		B. EXHIBIT C	C. CATEGORY: TDP TM OTHER NDTI					
D. SYSTEM/ITEM Five Spare Parts for AN/VVS-2			E. CONTRACT/PR NO.		F. CONTRACTOR			
1. DATA ITEM NO. C001	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 3.7.6.		6. REQUIRING OFFICE AMSEL-LC-IEW-N-II				
7. DD 250 REQ DD	9. DIST STATEMENT REQUIRED N/A	10. FREQUENCY OTIME	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: Submit report of First Article Test results via DD 250 30 days after test completion. Submit revised report within 20 days after receipt of any 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-IEW-N-II	0	1	0
					15. TOTAL →	0	1	0
G. PREPARED BY Susan F. Weir AMSEL-LC-IEW-N-II Electronic Engineer		H. DATE 3/1/2004	I. APPROVED BY Orinda M. Corwin AMSEL-LC-IEW-N-II Chief, Image Intensifier Branch			J. DATE 3/1/2004		

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3.7.6.1. General Data.

- Contractor's name and address.
- Contract number.
- Nomenclature, type number and (if assigned) stock number of item represented by the First Article.
- 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.

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

3.7.6.3 **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.

3.7.6.4 **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.

3.7.6.5 **FAT/Production Discrepancies.** Any Government approved (see paragraph 3.7.3), difference between the parts, materials and processes used to manufacture FAT samples and production units shall be documented in the FAT report.

3.7.7 **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.

3.7.8 **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.

3.7.8.1 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.

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

ATTACHMENT 0002, sow, 3/1/2004

3.7.9.1 No samples shall be retained at the contractor's facility for use as a reference by the QAR.

3.7.9.2 No samples shall be shipped to the Government for further testing purposes.

3.7.9.3 All remaining 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 contractual requirements shall be delivered as production items. The Government shall determine the acceptability of all FAT samples.

3.7.10 **Production Test Procedures.** Production test procedures used to test production units shall be identical to those used to test First Article samples.

3.7.10.1 Once FAT is approved, proposed changes to the production test procedures will be submitted to the Government Technical Activity (see paragraph 3.7.5) for evaluation. Such submissions will provide complete justification for the change. Changes to the approved test procedures shall not be implemented without written Government approval.

3.7.10.2 Any notice of approval of test procedures or changes thereto shall not relieve the contractor from complying with all contractual requirements.

3.7.11 **Use of FAT Samples as a Manufacturing Standard.** The FAT samples shall NOT serve as a manufacturing standard.

3.8. **Requirements for Delivery, Conditional Acceptance and Failure of Environmental Samples.**

3.8.1 **General.** Contract items in the first production lot shall not be delivered to the Government until environmental inspection is completed successfully. Delivery of lots between intervals of succeeding environmental tests are authorized subject to the limitations below.

3.8.1.1 **Government Conditional Acceptance of Lots.** Government acceptance of these lots is conditional. If a sample fails environmental testing subsequent to acceptance, the Government may discontinue acceptance and revoke acceptance of any items accepted between the previous (successful) environmental test and the environmental test where failure occurred. Furthermore, the Government may require the contractor to replace, correct or redesign at the contractor's expense, all units which were accepted between the previous environmental test and the environmental test where failure occurred. Such corrective action (see paragraph 3.8.5 below) may be performed at destination, contractor's facility or any other appropriate area, as directed by the Procuring Contracting Officer (PCO). All costs resulting from the failure and corrective action will be borne by the contractor.

3.8.1.2 **Delivery Authorization.** When delivery is authorized prior to the performance of environmental tests, the environmental test shall be completed within sixty days after sample selection. In the event that special environmental test requirements necessitate longer than 60 days for completion, the contractor may seek an authorization for an extension from the PCO. Sample selection shall be made within the time period specified in the applicable contract provision or specification. In the event that no time period is specified, the contractor shall contact the Government technical activity listed in Block 6 of the DD Form 1423 for DI-RELI-81315 (herein referred to as 'Technical Activity') for guidance. Failure to satisfactorily complete the

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environmental tests within the sixty day period shall be grounds for revoking acceptance of all units accepted since the last successful environmental test, and shall be deemed a failure to make delivery within the meaning of the Default clause of this contract.

3.8.1.3 Shipment of Failed Items. When items represented by samples that have failed environmental inspection have been shipped, the contractor shall notify the PCO by electronic mail/writing and telephonic communication within one working day of the occurrence of the failure, with copies furnished to the Administrative Contracting Officer (ACO) and the Technical Activity. This notification will indicate the nature of the failure(s) and shipment(s), including the consignee(s), date(s) of shipments, carrier(s), way bill number(s) and quantity. The Government may return such shipment(s) or any portion thereof to the contractor at the contractor's expense.

3.8.2 Notification of Environmental Testing.

The contractor shall notify the Government in writing within 2 working days of completion of environmental tests for a specific production lot. Environmental failures shall be reported as they occur.

3.8.3 Test Reports.

3.8.3.8 Environmental Reports. The contractor shall notify the PCO and Technical Activity in writing upon successful completion of environmental test. This notification will be submitted not later than 10 days after the test is completed, and will include:

- Contract Number.
- Item Identification (Nomenclature and/or Part Number).
- Date of Testing.

3.8.3.8 If the contractor is required to perform First Article Testing (FAT), the Environmental Tests performed during FAT shall be reported as part of the FAT report.

3.8.4 Failure Reporting. The contractor shall report each environmental test failure verbally to the Government Quality Assurance Representative (QAR) and the Technical Activity (see Block 16 of DD Form 1423 for DI-RELI-81315 for phone number) within one working day. Within fifteen working days of failure occurrence, the contractor shall submit a written failure report through the cognizant QAR to the Technical Activity as required by the DD Form 1423 for DI-RELI-81315. In addition to the information required by DI-RELI-81315, the report shall include:

- a. Contractor's name, address and applicable contract number.
- b. Number of units in sample and number of failed units subjected to test.
- c. Root cause of failure.
- d. Environmental re-inspection plan to validate the corrective action, consisting of all applicable environmental test and examinations. The plan shall include identification of previous functional, environmental and reliability tests, if any, invalidated by the corrective action changes and recommendations of those tests which should be repeated to prove the corrective action.
- e. Proposed disposition of items in the inspection lot at time of failure of any and all inspections during environmental test and of items manufactured under the same conditions and which the Government considers subject to the same failure mechanism.

CONTRACT DATA REQUIREMENTS LIST <i>(1 Data Item)</i>						Form Approved OMB No. 0704-0188		
<small>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.</small>								
A. CONTRACT LINE ITEM NO. 0013AA		B. EXHIBIT D		C. CATEGORY: TDP TM OTHER NDTI				
D. SYSTEM/ITEM Spare Parts for AN/VVS-2			E. CONTRACT/PR NO.		F. CONTRACTOR			
1. DATA ITEM NO. DD01	2. TITLE OF DATA ITEM Test/Inspection Report			3. SUBTITLE Environmental Retest				
4. AUTHORITY (Data Acquisition Document No.) DI-NDTI-80809B		5. CONTRACT REFERENCE SOW Para 3.8.5.		6. REQUIRING OFFICE AMSEL-LC-IEW-N-II				
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: Submit results of Environmental retest(s) NLT 15 days after completion of retest(s). All deliveries shall be in Microsoft WORD format, or as an alternative, in "Rich Text Format", on standard 3-1/2" diskettes formatted in Microsoft DOS-readable 720KB or 1.44MB capacity and include hard copy. Alternative delivery media may be discussed with the Contracting Officer prior to delivery.				AMSEL-LC-IEW-N-II		0	1	1
				15. TOTAL →		0	1	1
G. PREPARED BY Susan F. Weir AMSEL-LC-IEW-N-II Electronic Engineer		H. DATE 3/1/2004		I. APPROVED BY Orinda M. Corwin AMSEL-LC-IEW-N-II Chief, Image Intensifier Branch		J. DATE 3/1/2004		

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3.8.5 Corrective Action. The contractor shall implement the proposed corrective action on all units in the lot, select new samples and conduct environmental re-tests and other required re-testing IAW the retest plan (see paragraph 3.8.4c). Results of the environmental re-tests shall be submitted IAW DI-NDTI-80809B as implemented by the DD1423 for DI-NDTI-80809B.

CONTRACT DATA REQUIREMENTS LIST <i>(1 Data Item)</i>					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. 0014AA		B. EXHIBIT E	C. CATEGORY: TDP TM OTHER RELI				
D. SYSTEM/ITEM Spare Parts for AN/VVS-2			E. CONTRACT/PR NO.		F. CONTRACTOR		
1. DATA ITEM NO. E001	2. TITLE OF DATA ITEM Failure Analysis and Corrective Action Report			3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) DI-RELI-81315		5. CONTRACT REFERENCE SOW Para 3.8.4.		6. REQUIRING OFFICE AMSEL-LC-IEW-N-II			
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	a. ADDRESSEE	b. COPIES			
				Draft	Final		
					Reg	Repro	
16. REMARKS: Data Item Description (DID) reference to MIL specs/stds is for guidance only. Failure reports shall be submitted within 15 days of failure occurrence. Technical Activity Representative is Susan Weir and can be reached at (732) 427-5722 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 and include hard copy. Alternative delivery media may be discussed with the Contracting Officer prior to delivery.				AMSEL-LC-IEW-N-II	0	1	1
				15. TOTAL	0	1	1
G. PREPARED BY Susan F. Weir AMSEL-LC-IEW-N-II Electronic Engineer		H. DATE 3/1/2004	I. APPROVED BY Orinda M. Corwin AMSEL-LC-IEW-N-II Chief, Image Intensifier Branch		J. DATE 3/1/2004		

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3.8.5.1 Final acceptance and shipment approval will be withheld until results of the environmental retests substantiate that the corrective action was effective, as authorized by the PCO.

**INSTRUCTIONS FOR COMPLETING DD FORM 1423
(See DoD 5010.12-M for detailed instructions)**

FOR GOVERNMENT PERSONNEL

FOR THE CONTRACTOR

- ITEM A. *Self-explanatory.*
- ITEM B. *Self-explanatory.*
- ITEM C. *Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual; Other - other category of data, such as "Provisioning," "Configuration Management", etc.*
- ITEM D. *Enter name of system/item being acquired that data will support.*
- ITEM E. *Self-explanatory (to be filled in after contract award).*
- ITEM F. *Self-explanatory (to be filled in after contract award).*
- ITEM G. *Signature of preparer of CDRL.*
- ITEM H. *Date CDRL was prepared.*
- ITEM I. *Signature of CDRL approving authority.*

ITEM 17. *Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.*

a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort by the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data items to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data items to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying this data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

ITEM 18. *For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices should be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.*

- ITEM 1. *See DoD FAR Supplement Subpart 4.71 for proper numbering.*
- ITEM 2. *Enter title as it appears on data acquisition document cited in Item 4.*
- ITEM 3. *Enter subtitle of data item for further definition of data item (optional entry).*
- ITEM 4. *Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.*
- ITEM 5. *Enter reference to tasking in contract that generated requirement for the data item (e.g., Statement of Work paragraph number).*
- ITEM 6. *Enter technical office responsible for ensuring adequacy of the data item.*
- ITEM 7. *Specify requirement for inspection/acceptance of the data item by the Government.*
- ITEM 8. *Specify the requirement for approval of a draft before preparation of the final data item.*
- ITEM 9. *For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DODD 5230.24)*
- ITEM 10. *Specify number of times data items are to be delivered.*
- ITEM 11. *Specify as-of date of data item, when applicable.*
- ITEM 12. *Specify when first submittal is required.*
- ITEM 13. *Specify when subsequent submittals are required, when applicable.*
- ITEM 14. *Enter addresses and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.*
- ITEM 15. *Enter total number of draft/final copies to be delivered.*
- ITEM 16. *Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14; Desired medium for delivery of the data item.*

Title of ARP: entitled 'Five Spare Parts for AN/VVS-2'

"EXCEPTIONS TO CITED TECHNICAL DATA TO CORRECT REFERENCES TO OZONE-DEPLETING CHEMICALS

The technical requirements of this contract reference Ozone Depleting Chemicals (ODC) as defined by the Clean Air Act of 1990. These requirements shall be modified as directed below:

MIL-STD-2175

The document(s) above are cited in this solicitation as Category 1 document(s) which contain(s) sub-tier references to documents which require the use of Ozone Depleting Chemicals (ODCs). As Category 1 document(s), the requirements of sub-tier referenced documents are for guidance or reference only and are not contractually binding. The contractor is authorized the use of an appropriate alternative material in place of the ODCs cited in the sub-tier referenced documents when complying with the Category 1 document's requirements. The use of ODCs is not required and the use of alternatives is preferable.

MMM-A-1617

MMM-A-1617: The contractor is authorized the use of an acceptable alternative cleaning material in place of the Methyl Chloroform, MIL-T-81533, referenced in MMM-A-1617.

MIL-P-514

MIL-P-514 requires a fluid resistance test using TT-R-251 material. TT-R-251 material contains carbon tetrachloride, a Class 1 Ozone Depleting Substances. For the qualification of new material, IAW MIL-P-514, the specific fluid resistance test using TT-R-251 material is deleted from MIL-P-514 on this contract. Material previously qualified to MIL-P-514, including the use of TT-R-251 material, is approved for use on this contract.

FF-W-92

For the qualification of new FF-W-92 material where phosphate coating, IAW MIL-P-16232 (Now DOD-P-16232), is applicable, the contractor is authorized the use of acceptable alternative solvent cleaner in place of the 1,1,1 trichloroethane referenced in DOD-P-16232. Material previously qualified to FF-W-92 is acceptable for use.

ATTACHMENT 2

MIL-STD-454

** NOTICE: MIL-STD-454 has been converted to MIL-HDBK-454 (28 APR 95). Permanent changes must be made to the technical data. ****

MIL-STD-276

When applicable conditioning tests under MIL-H-17672 are required for the qualification of new material IAW MIL-STD-276, the contractor is authorized the use of an acceptable alternative cleaning material in place of the Methyl Chloroform or MIL-C-81302 referenced in MIL-H-17672. Material previously qualified to MIL-STD-276 is acceptable for use.

MIL-S-19500

MIL-S-19500 references the MIL-STD-750 Test Methods 1022.2, 1071.5 and 2026.7. For the qualification of new material IAW MIL-S-19500, the requirements of MIL-STD-750, Revision C, Notice 9 (May 94) shall apply. Material previously qualified to MIL-S-19500 is acceptable for use.

MIL-S-46163

For the qualification of a new material IAW MIL-S-46163, the contractor is authorized to substitute trichloroethylene for 1,1,1 trichloroethane referenced in paragraph 4.6.1.4. Material previously qualified to this specification is approved for use on this contract.

FF-S-86

FF-S-86 requires that when specified, screws shall be Phosphate Coated in Accordance MIL-P-16232 (Now DOD-P-16232), Type Z, Class 2. If required for the qualification of new material IAW FF-S-86, the contractor is authorized the use of acceptable alternative solvent cleaner in place of the 1,1,1 trichloroethane referenced in DOD-P-16232. Material previously qualified to FF-S-86 is acceptable for use.

MIL-T-81533

This specification describes a Class 1 Ozone Depleting Chemical. Contractors are authorized the use of a Non-ODC acceptable alternative solvent in place of MIL-T-81533.

MIL-STD-171

For the qualification of material IAW MIL-STD-171, the contractor is authorized the use of an acceptable alternative cleaning material in place of the O-T-634 or MIL-T-81533 referenced in MIL-STD-171.

MIL-STD-129

MIL-STD-129 requires that when used labels shall conform to the requirements of MIL-L-61002. MIL-L-61002 contains solvent immersion test requirements using an Ozone Depleting Substance (ODS) 1,1,1 trichloroethane (O-T-620, MIL-C-81302). For the purpose of this contract the solvent immersion test requirements of MIL-L-61002, specifically using 1,1,1 trichloroethane, are deleted from MIL-L-61002. Material previously qualified to this specification, including the solvent immersion test using trichloroethane, is also approved for use on this contract.

MIL-STD-100

MIL-STD-100 references Chemical Agent Resistant Coating requirements IAW MIL-C-53072. MIL-C-53072 may require epoxy coating materials IAW MIL-P-23377. MIL-C-23377, Class III, material contains the Ozone Depleting Substance 1,1,1 trichloroethane. Preference shall be given to the selection of MIL-C-23377, Class I or II epoxy coating materials.

The above modifications take the first order of precedence in this contract."

INCH-POUND

MIL-PRF-49147D (CR)
4 March 1999
SUPERSEDING
MIL-L-49147C (CR)
27 May 1992

PERFORMANCE SPECIFICATION

LENS ASSEMBLY, EYEPIECE
VIEWER, DRIVER'S NIGHT VISION, AN/VVS-2(V)

This specification is approved for use by US Army Communications-Electronics Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers the Lens Assembly Eyepiece, referred to herein as eyepiece, which is part of Viewer, Driver's Night Vision AN/VVS-2(V).

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3 and 4 of this specification. This section does not include documents in other sections of this specification or recommended for additional information or as examples. While every effort has been made to insure the completeness of this list, document users are cautioned that they must meet all specified requirements in sections 3 and 4 of this specification, whether or not they are listed.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving the document should be addressed to: HQ, USA Communications-Electronics Command, ATTN: AMSEL-LC-LEO-E-EP, Fort Monmouth, NJ 07703-5023 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 5855

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

2.1.2 Reference documents, drawings and publications. The following other Government documents, drawings and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation (see 6.2.c).

DRAWINGS

USA COMMUNICATIONS - ELECTRONICS COMMAND
SM-D-771327 - Lens Assembly Eyepiece

(Copies of specifications, standards, drawings and publications required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Description. The eyepiece is mounted to and is part of the Viewer, Driver's Night Vision AN/VVS-2(V).

3.2 Construction. The eyepiece shall be constructed to assure compliance with the contract configuration baseline and in accordance with SM-D-771327 as applicable.

3.3 First article testing (FAT). When specified in the contract or purchase order (see 6.2.e and 6.2.g) the contractor shall furnish eyepieces for FAT inspection and approval (see 4.2).

3.4 Materials. The contractor shall select parts and materials that are fully capable of meeting all operational and environmental requirements specified herein. The materials specified in the applicable drawings are recommended, but not mandatory. Selection criteria of the class, grade or type part shall ensure the material will be able to perform its intended function when it is assembled. Verification of the supplier meeting the overall performance requirements shall be the governing acceptance standard. Recovered materials shall be used to the maximum extent possible.

3.5 Performance characteristics.

3.5.1 Diopter setting. The eyepiece shall be set at -2.0, +0.3/-0.1 diopter as viewed from a distance of 50 millimeters (mm) on axis when installed on the AN/VVS-2(V).

3.5.2 Resolution. The eyepiece shall have a minimum resolution of 20 lp/mm when measured using a high contrast USAF 1951 Resolution Power Test Target (clear lines on black background or black lines on a clear background) and viewed binocularly from a 50 mm eye relief.

3.5.3 Magnification. The on-axis magnification shall be between 3.75 and 4.0.

3.5.4 Transmission. The transmission of the eyepiece shall be 80 percent minimum for the region of spectral output of a P-20 phosphor.

3.5.5 Field of view. The field of view of the eyepiece shall be 42.5 degrees minimum.

3.5.6 Field flatness. The field flatness shall deviate no more than 1/4 diopter over a 46 mm format with a 100 mm radius of curvature for the fiber optic magnifier output.

3.6 Environmental. Verification of conformance after environmental tests shall be Diopter setting (3.5.1), Resolution (3.5.2) and Transmission (3.5.4).

3.6.1 Temperature Extremes. The eyepiece shall not be damaged nor suffer degradation of performance (see 3.10.1 and 3.10.4) after being subjected to storage at +68°C or -51°C. The eyepiece shall not be damaged nor suffer degradation of performance (see 3.10.1 and 3.10.4) after being subjected to repetitive changes between +23°C and +68°C within 5 minutes and between +23°C and -51°C within 5 minutes. Soak time at each temperature extreme shall be sufficient for the eyepiece to attain temperature stabilization. Time for temperature stabilization is defined as the amount of time required for the most internal part of the unit under test to achieve the specified temperature.

3.6.2 Immersion. The eyepiece shall not be damaged (see 3.10.1) after being immersed in fresh water to a depth of not less than 3 feet for a period of not less than 30 minutes. The eyepiece shall be pre-conditioned by exposure to a temperature of +45°C ±3°C for a period of 2 hours prior to being immersed in the fresh water at a temperature of +18°C ±5°C.

3.6.3 Vibration. The eyepiece shall not be damaged nor suffer degradation of performance (see 3.10.1 and 3.10.4) after being subjected to vibration equivalent to that encountered in tracked vehicles, during 5000 miles of operation. Vibration shall be limited to one sine sweep from 5.0 to 500 Hertz (Hz.) and back to 5.0 Hz. within 15 minutes in the vertical axis only. Vibration shall be performed from 5.0 to 5.5 Hz at 1 inch displacement, 5.5 to 30 Hz. at 1.5 g's peak, 30 to 50 Hz. at 0.33 inch displacement and 50 to 500 Hz. at 4.2 g's peak (see 3.10.5).

3.6.4 Shock.

3.6.4.1 Basic shock. The eyepiece shall not be damaged nor suffer degradation of performance (see 3.10.1 and 3.10.4) after being subjected to basic shock of 40g's (see 3.10.5) at 18 milliseconds.

3.6.4.2 Weapon shock. The eyepiece shall not be damaged nor suffer degradation of performance (see 3.10.1 and 3.10.4) after being subjected to simulated weapon firing shock of 100 g's (see 3.10.5) at 1.5 milliseconds one half sine pulse.

3.7 Treatment and paintings. Treatment and painting shall be anti-reflective, shall be rust resistant and as specified on applicable drawings unless otherwise specified in the contract or purchase order.

3.8 Marking. Marking shall be in accordance with applicable drawings unless otherwise specified in the contract or purchase order.

3.9 Workmanship. Standards of workmanship shall be such that the eyepiece will meet all requirements of this specification and any referenced specifications or drawings.

3.10 Technical interpretations. The following technical interpretations are, when referenced in sections 3 or 4, mandatory for this specification.

3.10.1 Damage. Damage is defined as any breakage, loosening, shift, dents, failure of any finish, hardware, connection, or component, or condensation, fogging or moisture on any internal surface.

3.10.2 Ambient temperature. Ambient temperature is defined as +23°C, ± 10°C.

3.10.3 Environmental temperature. Environmental chamber temperature shall be controlled to within ±5°C of the specified temperature unless otherwise specified.

3.10.4 Degradation of performance. Any deterioration in quality, or failure to operate in accordance with the requirements of this specification.

3.10.5 "g". "g" is defined as an acceleration or deceleration of 32.17 feet per second per second.

4. VERIFICATION

4.1 Classification of inspection. Inspection shall be classified as follows:

- a. First article tests (4.2)
- b. Conformance inspection (4.3)

4.2 First article testing. When specified in the contract or purchase order (see 6.2.g), (see 3.3) shall be performed by the contractor. The quantity of first article test samples shall be as specified in the contract or purchase order (see 6.2.e) and shall be selected from the first production lot.

4.2.1 FAT Test. Each eyepiece in the first production lot shall be subjected to the performance tests of Table I, which may be performed in any order. After completion of this testing, eyepieces selected as samples for FAT testing shall be subjected to the tests of Table II, which may be performed in any order with the exception that immersion shall be performed last. Failure of any test shall be cause for rejection of that eyepiece and may be cause for rejection of the FAT.

TABLE I. Unit first article testing.

Inspection	Requirement Paragraph
Diopter setting	3.5.1
Resolution	3.5.2
Magnification	3.5.3
Transmission	3.5.4
Field of view	3.5.5
Field flatness	3.5.6

TABLE II. Sample first article testing.

Inspection	Requirement Paragraph
Temperature Extremes	3.6.1
Immersion	3.6.2
Vibration	3.6.3
Shock	3.6.4

4.2.1.1 Disposition of FAT samples. Disposition of FAT samples shall be as specified in the contract or purchase order (see 6.2.e).

4.3 Conformance inspection. Requirements for conformance inspections shall be as specified in the contract or purchase order (see 6.2.f). Unless otherwise specified, all tests shall be performed at ambient temperature (see 3.10.2)

5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or purchase order (see 6.2.h). When actual packaging of materials is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department of Defense agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CE-ROM products, or by contacting the responsible packaging activity.

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. The eyepiece covered by this specification is intended for use in the Viewer, Driver's Night Vision AN/VVS-2(V), an optical viewing device capable of directing the line of sight to the driver's eyes.

6.2 Acquisition requirements. Acquisition documents must specify the following:

- a. Title, number, and date of this specification.
- b. Necessary actions by contractor in the event of a lot failure.
- c. Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1.1 and 2.1.2).
- d. Sampling plans for Group B and Group C testing.
- e. Quantity and schedule of FAT and disposition of FAT samples.
- f. Statement identifying that the contractor must submit his proposal for conformance inspection to include specific requirements to be verified and the sampling plan to be used to provide the desired confidence level.
- g. Statement specifying that FAT testing is, or is not, required.
- h. Packaging requirements.

6.3 Definitions. See 3.10.

6.4 Subject term keyword listing.
None.

6.5 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensive changes.

Custodian:
Army - CR

Preparing Activity:
Army - CR

Project 5855-0137

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

I RECOMMEND A CHANGE:

1. DOCUMENT NUMBER
MIL-PRF-49147D (CR)

2. DOCUMENT DATE (YYMMDD)
990304

3. DOCUMENT TITLE

Lens Assembly, Eyepiece Viewer, Driver's Night Vision, AN/VVS-2 (V)

4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME (Last, First, Middle initial)

b. ORGANIZATION

c. ADDRESS (Include Zip Code)

d. TELEPHONE (Include Area Code)

7. DATE SUBMITTED (YYMMDD)

- (1) Commercial
- (2) AUTOVON (If applicable)

8. PREPARING ACTIVITY

a. NAME
US Army Communications-Electronics Command

b. TELEPHONE (Include Area Code)
(1) Commercial (732) 532-9129 (2) AUTOVON 992-9129

c. ADDRESS (Include Zip Code)
ATTN: AMSEL-LC-LEO-E-EP
Fort Monmouth, NJ 07703-5023

IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:
Defense Quality and Standardization Office
5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466
Telephone (703) 756-2340 AUTOVON 289-2340

17

INCH-POUND

MIL-PRF-49148D(CR)
4 March 1999
SUPERSEDING
MIL-L-49148C(CR)
26 May 1992

PERFORMANCE SPECIFICATION

LENS ASSEMBLY, OBJECTIVE
VIEWER, DRIVER'S NIGHT VISION, AN/VVS-2(V)

This specification is approved for use by US Army Communications-Electronics Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers the Objective Lens Assembly, herein known as objective lens, which is part of Viewer, Driver's Night Vision, AN/VVS-2(V).

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3 and 4 of this specification. This section does not include documents in other sections of this specifications or recommended for additional information or as examples. While every effort has been made to insure the completeness of this list, document users are cautioned that they must meet all specified requirements in sections 3 and 4 of this specification, whether or not they are listed.

Beneficial comments (recommendation, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: HQ, USA Communications-Electronics Command ATTN: AMSEL-LC-LEO-E-EP, Fort Monmouth, NJ 07703-5023 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 5855

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

ATTACHMENT 4

2.1.1 Reference documents, drawings and publications. The following other Government documents, drawings and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation (see 6.2.f).

DRAWINGS

USA COMMUNICATIONS-ELECTRONICS COMMAND

SM-D-771334 - Barrel Assembly, Lens, Objective

(Copies of Specifications, standards, drawings, and publications required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification takes precedence. Nothing in this specification, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Description. The objective lens assembly is mounted to and is part of the Viewer, Driver's Night Vision AN/VVS-2(V).

3.2 Construction. The objective lens assembly shall be constructed to assure compliance with the contract configuration baseline and in accordance with SM-D-771334 as applicable.

3.3. First article test (FAT). When specified in the contract (see 6.2.e and 6.2.h) the contractor shall furnish units for FAT inspection and approval (see 4.2).

3.4 Materials. The contractor shall select parts and materials that are fully capable of meeting all operational and environmental requirements specified herein. The materials specified in the applicable drawings are recommended, but not mandatory. Selection criteria of the class, grade or type part shall ensure the material will be able to perform its intended function when it is assembled. Verification of the supplier meeting the overall performance requirements shall be the governing acceptance standard. Recovered materials shall be used to the maximum extent possible.

3.5 Performance characteristics.

3.5.1 Effective focal length. The objective lens shall have an Effective Focal Length (EFL) of 33.6, ± 0.5 millimeters (mm).

3.5.2 Field of view. The field of view shall be not less than 44 degrees for a 25mm diameter format.

3.5.3 Linear distortion. The objective lens shall have between 9 percent and 12 percent barrel distortion.

3.5.4 Modulation Transfer Function (MTF) on axis. The MTF shall be not less than the values specified in Table I when tested on axis with a sine wave pattern setup that utilizes an S-20-ER response photomultiplier and a tungsten illumination source operated at 2854K \pm 200K color temperature. The test shall be repeated with the objective rotated 90 degrees about the optical axis.

TABLE I. Objective lens modulation transfer function.

Test Frequency (cycles/millimeter) on the Image Intensifier	Modulation Transfer (Percent)
10	84
20	70
30	55
40	40

3.5.5 T-number. The T-number shall be no greater than 1.25 when tested using a light source operated at 2854K \pm 200K color temperature and a photodetector with an S-20ER response.

3.5.6 Veiling glare. The veiling glare (stray light) shall be no greater than 2.5 percent when using a photodetector with an S-20ER response.

3.5.7 Flange focal length. The flange focal length shall be not less than 0.039 inches (0.991mm) when measured from the outermost flange surface of the 1.5-inch diameter central area of the lens retainer.

3.6 Environmental. Verification of conformance after environmental tests shall be Modulation transfer function (3.5.4), Veiling glare (3.5.6) and Flange focal length (3.5.7).

3.6.1 Temperature Extremes. The objective lens shall not be damaged nor suffer degradation of performance (see 3.10.1 and 3.10.4) after being subjected to storage at +68°C to -51°C. The objective lens shall not be damaged nor suffer degradation of performance (see 3.10.1 and 3.10.4) after being subjected to repetitive temperature changes between +23°C and +68°C in 5 minutes and between +23°C and -51°C in 5 minutes. Soak time at each temperature extreme shall be sufficient for the objective lens to attain temperature stabilization. Time for temperature stabilization is defined as the amount of time required for the most internal part of the unit under test to achieve the specified temperature.

3.6.2 Vibration. The objective lens shall not be damaged nor suffer degradation of performance (see 3.10.1 and 3.10.4) after being subjected to vibration equivalent to that encountered in tracked vehicles during 5000 miles of operation. Vibration shall be limited to one sine sweep from 5.0 to 500 Hertz (Hz) and back to 5.0 Hz within 15 minutes in the vertical axis only. Vibration shall be performed from 5.0 to 5.5 Hz. at 1-inch displacement, 5.5 to 30 Hz. at 1.5 g's peak, 30 to 50 Hz at 0.33-inch displacement and 50 to 500 Hz. at 4.2 g's peak.

3.6.3 Shock.

3.6.3.1 Basic shock. The objective lens shall not be damaged nor suffer degradation of performance (see 3.10.1 and 3.10.4) after being subjected to basic shock of 40 g's (see 3.10.5) at 18 milliseconds.

3.6.3.2 Weapon shock. The objective lens shall not be damaged nor suffer degradation of performance (see 3.10.1 and 3.10.4) after being subjected to simulated weapon firing shock of 100 g's at 1.5 milliseconds one half sine pulse.

3.6.4 Immersion. The objective lens shall not be damaged (see 3.10.1) after being immersed in fresh water to a depth of not less than 3 feet for a period of not less than 30 minutes. The objective lens shall be pre-conditioned by exposure to temperature of $+45^{\circ}\text{C} \pm 3^{\circ}\text{C}$ for a period of 2 hours prior to being immersed in the fresh water at a temperature of $+18^{\circ}\text{C} \pm 5^{\circ}\text{C}$.

3.7 Treatment and painting. Treatment and painting shall be anti-reflective, shall be rust resistant and as specified on applicable drawings unless otherwise specified in the contract or purchase order.

3.8 Marking. Marking shall be in accordance with applicable drawings unless otherwise specified in the contract or purchase order.

3.9 Workmanship. Standards of workmanship shall be such that the objective lens will meet all requirements of this specification and any referenced specifications or drawings.

3.10 Technical interpretations. The following technical interpretations are, when referenced in sections 3 or 4, mandatory for this specification.

3.10.1 Damage. Damage is defined as any breakage, loosening, shift, dents, failure of any finish, hardware, connection, or component, or condensation, fogging or moisture on any internal surface.

3.10.2 Ambient temperature. Ambient temperature is defined as $+23^{\circ}\text{C}$, $\pm 10^{\circ}\text{C}$.

3.10.3 Environmental temperature. Environmental chamber temperature shall be controlled to within $\pm 5^{\circ}\text{C}$ of the specified temperature unless otherwise specified.

3.10.4 Degradation of performance. Any deterioration in quality, or failure to operate with the requirements of this specification.

3.10.5 "g". "g" is defined as an acceleration or deceleration of 32.17 feet per second per second.

4. VERIFICATION

4.1 Classification of inspections. Inspections shall be classified as follows:

- a. First article tests (4.2)
- b. Conformance inspection (4.3)

4.2 First Article Test (FAT). When specified in the contract or purchase order (see 6.2.h), first article testing shall be performed by the contractor. The quantity of first article test samples shall be as specified in the contract or purchase order(see 6.2.e) and shall be selected from the first production lot.

4.2.1 FAT Tests. Each objective lens in the first production lot shall be subjected to the performance tests of Table II. After completion of this test, objective lens assemblies selected as samples for FAT testing shall be subjected to the tests of Table III which may be performed in any order except that Immersion shall be performed last. Failure of any test shall be cause for rejection of that objective lens and may be cause for rejection of the FAT.

TABLE II. Unit first article testing.

Inspection	Requirement Paragraph
Effective focal length	3.5.1
Field of view	3.5.2
Linear distortion	3.5.3
Modulation transfer function	3.5.4
T-number	3.5.5
Veiling glare	3.5.6
Flange focal length	3.5.7

Table III Sample first article testing

Inspection	Requirement Paragraph
Temperature Extremes	3.6.1
Vibration	3.6.2
Shock	3.6.3
Immersion	3.6.4

4.2.1 Disposition of FAT samples. Disposition of FAT samples shall be as specified in the contract or purchase order (see 6.2.e).

4.3 Conformance inspection. Requirements for conformance inspection shall be as specified in the contract or purchase order (see 6.2.g). Unless otherwise specified, all tests shall be performed at ambient temperature (see 3.10.2).

5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or purchase order (see 6.2.c). When packaging is to be performed by DoD personnel, these personnel need to contract the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department of Defense Agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. The objective lens is used with the AN/VVS-2 (V) for driver viewing during periods of darkness.

6.2 Acquisition requirements. Acquisition documents must specify the following:

- a. Title, number, and date of this specification.
- b. Necessary actions by contractor in the event of a lot failure (see 4.2.1).
- c. Packaging requirements.
- d. Sampling plans for lot testing.
- e. Quantity and schedule for FAT for all line items and disposition of FAT samples.
- f. Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1 and 2.1.1).
- g. Statement identifying that the contractor must submit his proposal for conformance inspection to include specific requirements to be verified and the sampling plan to be used to provide the desired confidence level.
- h. Statement specifying that FAT testing is, or is not, required.

6.3 Definitions. See 3.10.

6.4 Subject term keyword listing. None

6.5 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensive changes.

Custodian:
Army - CR

Preparing Activity
Army - CR

Project 5855-0098

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
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3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

I RECOMMEND A CHANGE:

1. DOCUMENT NUMBER
MIL-PRF-49148D (CR)

2. DOCUMENT DATE (YYMMDD)
990304

3. DOCUMENT TITLE

Lens Assembly, Objective Viewer, Driver's Night Vision, AN/VVS-2 (V)

4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME (Last, First, Middle initial)

b. ORGANIZATION

c. ADDRESS (Include Zip Code)

d. TELEPHONE (Include Area Code)

7. DATE SUBMITTED (YYMMDD)

(1) Commercial

(2) AUTOVON
(If applicable)

8. PREPARING ACTIVITY

a. NAME
US Army Communications-Electronics
Command

b. TELEPHONE (Include Area Code)

(1) Commercial

(732) 532-9129

(2) AUTOVON

992-9129

c. ADDRESS (Include Zip Code)
ATTN: AMSEL-LC-LEO-E-EP
Fort Monmouth, NJ 07703-5023

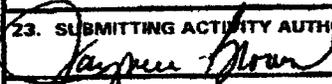
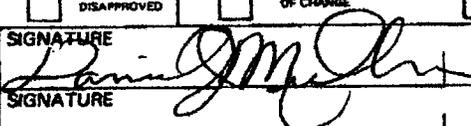
IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:

Defense Quality and Standardization Office

5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466

Telephone (703) 756-2340 AUTOVON 289-2340

(VNUM)

ENGINEERING CHANGE PROPOSAL, PAGE 1 <i>(See MIL STD - 480 for instructions)</i>				DATE (YYMMDD) 97 11 18		Form Approved OMB No 0704-0188	
Public reporting burden for this collection of information is estimated to average 2 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 Washington Headquarters Service, 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.						PROCURING ACTIVITY NO.	
1. ORIGINATOR NAME AND ADDRESS Litton Electro-Optical Systems Division 2203 W. Walnut Street Garland, Tx 75042				2. CLASS OF ECP II		3. JUST. CODE NA	
						4. PRIORITY R	
5. ECP DESIGNATION				6. BASELINE AFFECTED			
a. MODEL/TYPE AN/VVS-2		b. CAGE CODE 27777		c. SYSTEM DESIGNATION VIEWER, AN/VVS-2		<input type="checkbox"/> FUNCTIONAL <input type="checkbox"/> ALLOCATED <input checked="" type="checkbox"/> PRODUCT	
d. ECP NO. ESGJ255-007		e. TYPE F	f. REV	g. AMEND	7. OTHER SYS./CONFIG. ITEMS AFFECTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
8. SPECIFICATIONS AFFECTED - TEST PLAN				9. DRAWINGS AFFECTED			
	CAGE CODE	SPEC. / DOC. NO.	REV.	SCN	CAGE CODE	NUMBER	REV.
a. SYSTEM					80063	SM-C-657405	E
b. ITEM							
c. TEST PLAN							
10. TITLE OF CHANGE ADD MATERIAL THICKNESS TOLERANCE				10.a. WEAPON SYSTEM CODE OR DESIGNATION AN/VVS-2			
11. CONTRACT NO. AND LINE ITEM DAAB07-95-C-J255				12. PROCURING CONTRACTING OFFICER JACK KULAGA AMSEL-ACCC-A- CODE CC TEL 908-532-1093			
13. CONFIGURATION ITEM NOMENCLATURE AN/VVS-2(V)						14. IN PRODUCTION <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
15. LOWEST ASSEMBLY AFFECTED NOMENCLATURE VIEWER ASSEMBLY DRIVERS, AN/VVS-2(V)				PART NUMBER SM-D-771480/5005820		NSN 5855-01-235-5489	
16. DESCRIPTION OF CHANGE CHANGE CHART FOR DIMENSION "A" IN ZONE A-4 TO ADD TOLERANCE TO .062 DIMENSION							
17. NEED FOR CHANGE THE +/- .005 BLOCK TOLERANCE IS NOT CONSISTENT WITH FOAM RUBBER MATERIALS. TOLERANCE ON STOCK MATERIAL IS +/- .016.							
18. PRODUCTION EFFECTIVITY BY SERIAL NUMBER N/A				19. EFFECT ON PRODUCTION DELIVERY SCHEDULE NONE			
20. RETROFIT							
a. RECOMMENDED ITEM EFFECTIVITY NONE				c. SHIP / VEHICLE NUMBERS AFFECTED NONE			
b. ESTIMATED KIT DELIVERY SCHEDULE NONE				d. LOCATIONS OR SHIP / VEHICLE NUMBERS AFFECTED NONE			
21. ESTIMATED COSTS / SAVINGS UNDER CONTRACT NONE				22. ESTIMATED NET TOTAL COSTS / SAVINGS NONE			
23. SUBMITTING ACTIVITY AUTHORIZED SIGNATURE  JAYNELL BROWN				23.a. TITLE CONFIGURATION MANAGER			
24. APPROVAL / DISAPPROVAL							
a. CLASS I <input type="checkbox"/> APPROVAL RECOMMENDED <input type="checkbox"/> DISAPPROVAL RECOMMENDED		b. CLASS II <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		c. CLASS II <input type="checkbox"/> CONCUR IN CLASSIFICATION OF CHANGE <input type="checkbox"/> DO NOT CONCUR IN CLASSIFICATION OF CHANGE			
d. GOVERNMENT ACTIVITY AMSEL-ACCC-A-255				SIGNATURE 		DATE (YYMMDD) 97/12/01	
e. APPROVAL <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		f. GOVERNMENT ACTIVITY		SIGNATURE		DATE (YYMMDD)	

ATTACHMENT 5

NOTICE OF REVISION (NOR) <i>(See MIL STD - 480 for instructions)</i> This revision described below has been authorized for the document listed		DATE (YYMMDD) 97 11 18	Form Approved OMB No 0704-0188
Public reporting burden for this collection of information is estimated to average 1 hour 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 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.			
1. ORIGINATOR NAME AND ADDRESS Litton Electro-Optical Systems Division 2203 W. Walnut Street Garland, Tx 75042		2. CAGE CODE 27777	3. NOR NO. 010
		4. CAGE CODE 80063	5. DOCUMENT NO. SM-C-657405
6. TITLE OF DOCUMENT GASKET		7. REVISION LETTER <i>(current)</i> E <i>(new)</i> F	
		8. ECP NO. EE5GJ255-007	
9. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES AN/VVS-2(V)			
10. DESCRIPTION OF REVISION IN ZONE A-4, ADD TOLERANCE TO DIMENSION "A" AS FOLLOWS: FROM: .062 TO: .062 +/- .016			
11. THIS SECTION FOR GOVERNMENT USE ONLY			
a. CHECK ONE <input checked="" type="checkbox"/> EXISTING DOCUMENT SUPPLEMENTED BY THIS NOR MAY BE USED IN MANUFACTURE. <input type="checkbox"/> REVISED DOCUMENT MUST BE RECEIVED BEFORE MANUFACTURER MAY INCORPORATE THIS CHANGE. <input type="checkbox"/> CUSTODIAN OF MASTER DOCUMENT SHALL MAKE ABOVE REVISION AND FURNISH REVISED DOCUMENT TO:			
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT AMSEL-LC-TEW-NSE		SIGNATURE AND TITLE <i>Edward P. Kennedy ELECTRONICS ENGINEER</i>	
12. ACTIVITY ACCOMPLISHING REVISION		DATE (YYMMDD) 971201	
		REVISION COMPLETED (Signature) <i>Edward P. Kennedy</i>	
		DATE (YYMMDD) 971201	

ENGINEERING CHANGE PROPOSAL, PAGE 1

(See MIL STD - 480 for instructions)

DATE (YYMMDD)
97 12 15

Form Approved
OMB No 0704-0188

Public reporting burden for this collection of information is estimated to average 2 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 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.

PROCURING ACTIVITY
NO.

1. ORIGINATOR NAME AND ADDRESS

Litton
Electro-Optical Systems Division
2203 W. Walnut Street
Garland, Tx 75042

2. CLASS OF ECP
II

3. JUST. CODE
NA

4. PRIORITY
R

5. ECP DESIGNATION

a. MODEL/TYPE AN/VVS-2	b. CAGE CODE 27777	c. SYSTEM DESIGNATION VIEWER, AN/VVS-2
d. ECP NO. E5GJ255-010	e. TYPE F	f. REV
		g. AMEND

6. BASELINE AFFECTED

FUNCTIONAL ALLOCATED PRODUCT

7. OTHER SYS./CONFIG. ITEMS AFFECTED
 YES NO

8. SPECIFICATIONS AFFECTED - TEST PLAN

	CAGE CODE	SPEC. / DOC. NO.	REV.	SCN
a. SYSTEM				
b. ITEM				
c. TEST PLAN				

9. DRAWINGS AFFECTED

CAGE CODE	NUMBER	REV.	NOR
80063	SM-D-771349	E	010

10. TITLE OF CHANGE
TOLERANCE INCOMPATIBILITY

10.a. WEAPON SYSTEM CODE OR DESIGNATION
AN/VVS-2

11. CONTRACT NO. AND LINE ITEM
DAAB07-95-C-J255

12. PROCURING CONTRACTING OFFICER
JACK KULAGA
AMSEL-ACCC-A-
CODE CC TEL 908-532-1093

13. CONFIGURATION ITEM NOMENCLATURE
AN/VVS-2(V)

14. IN PRODUCTION
 YES NO

15. LOWEST ASSEMBLY AFFECTED

NOMENCLATURE VIEWER ASSEMBLY DRIVERS, AN/VVS-2(V)	PART NUMBER SM-D-771480/5005820	NSN 5855-01-235-5489
--	------------------------------------	-------------------------

16. DESCRIPTION OF CHANGE

IN ZONE B-6, C-5, AND C-4 CHANGE DIMENSIONS TO REFLECT CORRECT TOLERANCE FOR COMPATIBILITY WITH LENS DIMENSIONS. SEE NOR 010 FOR SPECIFIC DIMENSIONS.

17. NEED FOR CHANGE

DIMENSIONS ON DRAWING PERMIT AN INTERFERENCE CONDITION BETWEEN GLASS AND BARREL. THE TOLERANCE ON THE O.D. DIMENSION IS UNNECESSARILY TIGHT FOR THE END ITEM USE.

18. PRODUCTION EFFECTIVITY BY SERIAL NUMBER
N/A

19. EFFECT ON PRODUCTION DELIVERY SCHEDULE
NONE

20. RETROFIT

a. RECOMMENDED ITEM EFFECTIVITY
NONE

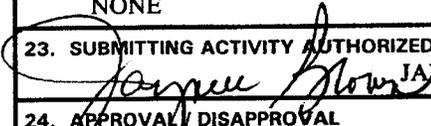
c. SHIP / VEHICLE NUMBERS AFFECTED
NONE

b. ESTIMATED KIT DELIVERY SCHEDULE
NONE

d. LOCATIONS OR SHIP / VEHICLE NUMBERS AFFECTED
NONE

21. ESTIMATED COSTS / SAVINGS UNDER CONTRACT
NONE

22. ESTIMATED NET TOTAL COSTS / SAVINGS
NONE

23. SUBMITTING ACTIVITY AUTHORIZED SIGNATURE

JAYNELL BROWN

23.a. TITLE
CONFIGURATION MANAGER

24. APPROVAL / DISAPPROVAL

a. CLASS I <input type="checkbox"/> APPROVAL RECOMMENDED <input type="checkbox"/> DISAPPROVAL RECOMMENDED	b. CLASS II <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED	c. CLASS II <input type="checkbox"/> CONCUR IN CLASSIFICATION OF CHANGE <input type="checkbox"/> DO NOT CONCUR IN CLASSIFICATION OF CHANGE
--	---	---

d. GOVERNMENT ACTIVITY	SIGNATURE	DATE (YYMMDD)
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e. APPROVAL <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED	f. GOVERNMENT ACTIVITY	SIGNATURE	DATE (YYMMDD)
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NOTICE OF REVISION (NOR)

(See MIL STD - 480 for instructions)

This revision described below has been authorized for the document listed

DATE (YYMMDD)

97 12 15

Form Approved

OMB No 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour 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 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.

1. ORIGINATOR NAME AND ADDRESS

Litton
Electro-Optical Systems Division
2203 W. Walnut Street
Garland, Tx 75042

2. CAGE CODE

27777

3. NOR NO.

010

4. CAGE CODE

80063

5. DOCUMENT NO.

SM-C-771349

6. TITLE OF DOCUMENT

BARREL, LENS, OBJECTIVE

7. REVISION LETTER

(current) E

(new) F

8. ECP NO.

ESCJ255-010

9. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES

AN/VVS-2(V) DRIVER'S VIEWER

10. DESCRIPTION OF REVISION

1) CHANGE DIMENSIONS IN ZONE B-6, C-4, AND C-5 AS FOLLOWS:

	<u>FROM:</u>	<u>TO:</u>
<u>ZONE B-6</u>	1.625 1.624 DIA	1.625 1.623 DIA
<u>ZONE C-5</u>	1.402 1.401 DIA	1.4035 1.4015 DIA
<u>ZONE C-4</u>	1.627 1.626 DIA	1.6285 1.6265 DIA

11. THIS SECTION FOR GOVERNMENT USE ONLY

a. CHECK ONE

EXISTING DOCUMENT SUPPLEMENTED BY THIS NOR MAY BE USED IN MANUFACTURE.

REVISED DOCUMENT MUST BE RECEIVED BEFORE MANUFACTURER MAY INCORPORATE THIS CHANGE.

CUSTODIAN OF MASTER DOCUMENT SHALL MAKE ABOVE REVISION AND FURNISH REVISED DOCUMENT TO:

b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT

SIGNATURE AND TITLE

DATE (YYMMDD)

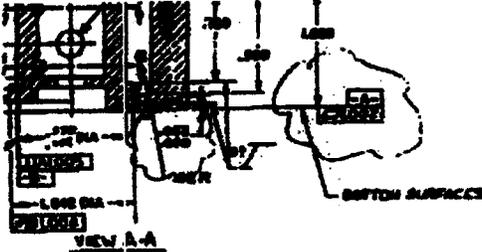
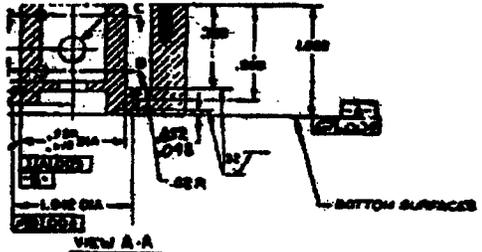
12. ACTIVITY ACCOMPLISHING REVISION

REVISION COMPLETED (Signature)

DATE (YYMMDD)

ENGINEERING CHANGE PROPOSAL, PAGE 1 <small>(See MIL STD - 480 for Instructions)</small>			DATE (YYMMDD) 98 02 09		Form Approved OMB No 0704-0128	
<small>Public reporting burden for this collection of information is estimated to average 2 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 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 (0704-0128), Washington, DC 20503.</small>					PROCURING ACTIVITY NO.	
1. ORIGINATOR NAME AND ADDRESS Electro-Optical Systems Division 2203 W. Walnut Street Garland, TX 75042			2. CLASS OF ECP II		3. JUST. CODE NA	
4. ECP DESIGNATION a. MODEL/TYPE AN/VVS-2 b. CASE CODE Z7777 c. SYSTEM DESIGNATION VIEWER, AN/VVS-2			6. BASELINE AFFECTED <input type="checkbox"/> FUNCTIONAL <input type="checkbox"/> ALLOCATED <input checked="" type="checkbox"/> PRODUCT		4. PRIORITY R	
d. ECP NO. ESQJ235-0-11			e. TYPE F		f. REV	
g. AMEND			7. OTHER SYL/CONFIG. ITEMS AFFECTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
8. SPECIFICATIONS AFFECTED - TEST PLAN			9. DRAWINGS AFFECTED			
a. SYSTEM			CASE CODE		NUMBER	
b. ITEM			SPEC. / DOC. NO.		REV.	
c. TEST PLAN			REV.		NOR	
d. SYSTEM			SCN		CAGE CODE	
e. ITEM			CAGE CODE		SM-D-771379	
f. TEST PLAN			REV.		H	
g. ITEM			CAGE CODE		010	
h. TEST PLAN			CAGE CODE		REV.	
10. TITLE OF CHANGE BRING FLATNESS & DIM. TOLERANCES IN LINE WITH CASTING			10.a. WEAPON SYSTEM CODE OR DESIGNATION AN/VVS-2			
11. CONTRACT NO. AND LINE ITEM DAAB07-95-C-3255			12. PROCURING CONTRACTING OFFICER JACK KULAGA AMSEL-ACCC-A- CC TEL. 908-833-1088			
13. CONFIGURATION ITEM NOMENCLATURE AN/VVS-2(V)			14. IN PRODUCTION <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
15. LOWEST ASSEMBLY AFFECTED NOMENCLATURE VIEWER /ASSEMBLY DRIVERS, AN/VVS-2(V)			PART NUMBER SM-D-771480/5005820		NPN 5855-01-235-5489	
16. DESCRIPTION OF CHANGE IN ZONE B-4.1, CHANGE DIMENSION .052 TO .052 AND FLATNESS REQUIREMENT FROM .002 TO .004						
17. NEED FOR CHANGE TO BRING THE FLATNESS AND DIMENSIONAL TOLERANCES IN LINE WITH THE CASTING CAPABILITY TO HOLD TOLERANCES.						
18. PRODUCTION EFFECTIVITY BY SERIAL NUMBER N/A			19. EFFECT ON PRODUCTION DELIVERY SCHEDULE NONE			
20. RETROFIT						
a. RECOMMENDED ITEM EFFECTIVITY NONE			c. SHIP / VEHICLE NUMBERS AFFECTED NONE			
b. ESTIMATED KIT DELIVERY SCHEDULE NONE			d. LOCATIONS OR SHIP / VEHICLE NUMBERS AFFECTED NONE			
21. ESTIMATED COSTS / SAVINGS UNDER CONTRACT NONE			22. ESTIMATED NET TOTAL COSTS / SAVINGS NONE			
23. SUBMITTING ACTIVITY AUTHORIZED SIGNATURE <i>Jaynell Brown</i> JAYNELL BROWN			23.a. TITLE CONFIGURATION MANAGER			
24. APPROVAL / DISAPPROVAL						
a. CLASS I <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		b. CLASS II <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		c. CLASS III <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		d. DATE (YYMMDD)
e. GOVERNMENT ACTIVITY			SIGNATURE		DATE (YYMMDD)	
f. APPROVAL <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED			SIGNATURE <i>J. Kulaga</i>		DATE (YYMMDD) 000223	
g. GOVERNMENT ACTIVITY AMSEL-LC-1EW-N-11			314208			

ATTACHMENT 2

NOTICE OF REVISION (NOR) <small>(See MIL STD - 480 for Instructions)</small>		(VNUM) ECO No. 981065
This revision described below has been authorized for the document listed		DATE (YYMMDD) 98 02 09
		Form Approved OMB No 0704-0188
<small>Please retaining libraries for its collection of information is continued to average 4 hours per revision, 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 Washington Headquarters Service, 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.</small>		
1. ORIGINATOR NAME AND ADDRESS LEBos Electro-Optical Systems Division 2303 W. Walnut Street Garland, Tx 75042		2. CAGE CODE 2777
		3. NOR NO. 010
		4. CAGE CODE 90063
		5. DOCUMENT NO. SM-D-771379
6. TITLE OF DOCUMENT PLATE, SWITCH, ROTARY		7. REVISION LETTER Issued H Issued I
		8. ECF NO. ESQ7255-011
9. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECF APPLIES AN/VVS-2(V)		
10. DESCRIPTION OF REVISION		
1) IN ZONE B-4,5, CHANGE DIMENSION AND FLATNESS REQUIREMENTS AS SHOWN BELOW:		
FROM:		TO:
		
11. THIS SECTION FOR GOVERNMENT USE ONLY		
a. CHECK ONE		
<input type="checkbox"/> EXISTING DOCUMENT SUPPLEMENTED BY THIS NOR MAY BE USED IN MANUFACTURE. <input type="checkbox"/> REVISION DOCUMENT MUST BE RECEIVED BEFORE MANUFACTURE MAY INCORPORATE THIS CHANGE. <input type="checkbox"/> CUSTOMER OF MASTER DOCUMENT SHALL MAKE ABOVE REVISION AND FURNISH REVISION DOCUMENT TO:		
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT AMSEL-LC-1EW-N-11		SIGNATURE AND TITLE <i>[Signature]</i> Chief, FI Branch
		DATE (YYMMDD) 000823
12. ACTIVITY ACCOMPLISHING REVISION		REVISION COMPLETED (Signature) <i>[Signature]</i>
		DATE (YYMMDD)

NOTICE OF REVISION (NOR)

(See MIL STD - 480 for instructions)

This revision described below has been authorized for the document listed

DATE (YYMMDD)

98 02 09

Form Approved

OMB No 0704-0188

Public reporting burden for this collection of information is estimated to average 1 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 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.

1. ORIGINATOR NAME AND ADDRESS

Lifton
Electro-Optical Systems Division
2203 W. Walnut Street
Garland, Tx 75042

2. CAGE CODE

27777

3. NOR NO.

010

4. CAGE CODE

80063

5. DOCUMENT NO.

SM-D-771379

6. TITLE OF DOCUMENT

PLATE, SWITCH, ROTARY

7. REVISION LETTER

(current) H

(new) J

8. ECP NO.

E5GJ255-011

9. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES

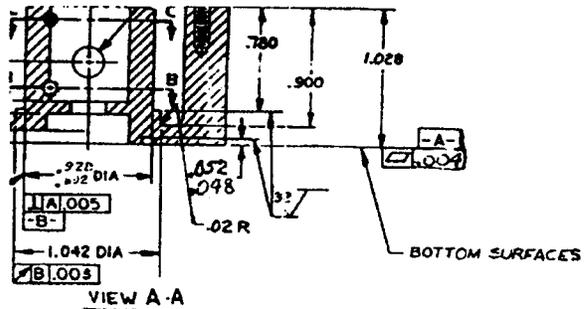
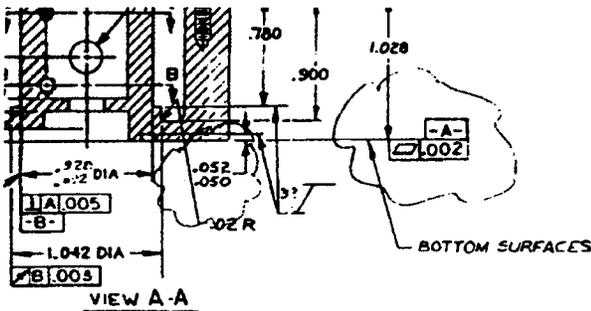
AN/VVS-2(V)

10. DESCRIPTION OF REVISION

1) IN ZONE B-4,5, CHANGE DIMENSION AND FLATNESS REQUIREMENTS AS SHOWN BELOW:

FROM:

TO:



11. THIS SECTION FOR GOVERNMENT USE ONLY

a. CHECK ONE

EXISTING DOCUMENT SUPPLEMENTED BY THIS NOR MAY BE USED IN MANUFACTURE.

REVISED DOCUMENT MUST BE RECEIVED BEFORE MANUFACTURER MAY INCORPORATE THIS CHANGE.

CUSTODIAN OF MASTER DOCUMENT SHALL MAKE ABOVE REVISION AND FURNISH REVISED DOCUMENT TO:

b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT

SIGNATURE AND TITLE

DATE (YYMMDD)

12. ACTIVITY ACCOMPLISHING REVISION

REVISION COMPLETED (Signature)

DATE (YYMMDD)

Exceptions to Drawings

All ECPs listed below are enclosed herein:

1. ECP E5GJ255-007 for drawing SM-C-657405
2. ECP E5GJ255-010 for drawing SM-D-771349
3. ECP E5GJ255-011 for drawing SM-D-771379

Visitor Gate Access Request Form

Last Name	First Name	Middle Name
Social Security Number	Home Address	Drivers License # and Drivers License State
Date of Birth	Dates of Visit:	Building Visiting
Company Name	Company Address	Company Phone Number
License Plate# (If Car Rental Leave Blank)	Point of Contact Name	Point of Contact Phone Number
Purpose of Visit	Point of Contact Signature	Date Signed
US CITIZEN (YES/NO)	Foreign National Country	Alien Registration/Visa/Passport #

Privacy Notice

DATA REQUIRED BY THE PRIVACY ACT OF 1974 (5 USC 552a)
TITLE OF FORM – Visitor Gate Access Request Form

1. Authority: Executive Order 10450 and 10665; title 10, USC, Section 3012. Prescribing Directing: AR 525-13
2. Mandatory of voluntary disclosure and effect on individual not providing information: Disclosure of the information is voluntary. Refusal to provide information will result in denial of request.

This material must be protected IAW TITLE 5 USC. This information should be handled in the same manner as For Official Use Only (FOUO) information.

REVISION #1 – 11/16/2001

ATTACHMENT 9

FROM WASHINGTON D.C. TO FORT MONMOUTH

DELAWARE MEMORIAL BRIDGE TO NEW JERSEY TURNPIKE NORTH. FOLLOW TURNPIKE NORTH TO EXIT 7A. GO EAST ON INTERSTATE 195 TO GARDEN STATE PARKWAY (GSP) NORTH.

TAKE GSP NORTH TO EXIT 105 ONTO HWY 36 EAST. GET IN LEFT LANE -- FOLLOW VISITOR DIRECTIONS TO EAST GATE BELOW.

*******ALL VISITORS WITHOUT DOD DECAL AND ID SEE BELOW*******

*******ALL VISITORS MUST ENTER AT EAST GATE AND GET PASS*******

TO EAST GATE***EXIT 105 ONTO HWY 36 EAST. GET IN LEFT LANE AN GO TO 3RD LIGHT. AT THIRD LIGHT, TURN LEFT ONTO WYCKOFF RD. WYCKOFF DEAD ENDS ON BROAD ST, TURN RIGHT ON BROAD ST AND MAKE IMMEDIATE LEFT AT TRAFFIC LIGHT ONTO MAIN ST. FOLLOW MAIN ST TO OCEANPORT AVE TRAFFIC LIGHT AND TURN LEFT. GO TO VISITOR CONTROL (TRAILER) ON RIGHT TO GET A VISITOR'S PASS. YOU ARE REQUIRED TO HAVE PICTURE ID, DRIVERS LICENSE, VEHICAL REGISTRATION OR RENTAL CAR AGREEMENT TO GET A PASS AND VISITOR INFORMATION ENTERED INTO VISITOR DATA BASE.**

FROM NORTH JERSEY(NEWARK AIRPORT):

FOLLOW SIGNS FOR AIRPORT EXIT, THEN FOLLOW SIGNS TO THE NEW JERSEY TURNPIKE SOUTH (TOLL ROAD). CONTINUE ON TURNPIKE TO EXIT 11 (GARDEN STATE PARKWAY - SOUTH - TOLL ROAD))

GARDEN STATE PARKWAY SOUTH TO EXIT 105 ONTO HWY 36 EAST. GET IN LEFT LANE. FOLLOW VISITOR DIRECTIONS TO EAST GATE ABOVE.

VISITOR PARKING FOR MALLETTE HALL (BLDG 1207) /COMMAND GROUP

Visitor Parking is located on Avenue of Memories left side if entering the East Gate. When you arrive proceed to the CECOM and Fort Monmouth Main Post, Headquarters Mallette Hall, Building 1207 Avenue of Memories. When you arrive at Mallette Hall, you will be met in the main lobby for an escort to the Command Group office or proceed to the Telephone/Waiting Area in the main lobby and call extension 22671 for an escort to MG Russ's office.

FROM WASHINGTON D.C. TO FORT MONMOUTH

DELAWARE MEMORIAL BRIDGE TO NEW JERSEY TURNPIKE NORTH. FOLLOW TURNPIKE NORTH TO EXIT 7A. GO EAST ON INTERSTATE 195 TO GARDEN STATE PARKWAY (GSP) NORTH.

TAKE GSP NORTH TO EXIT 105 ONTO HWY 36 EAST. GET IN LEFT LANE -- FOLLOW VISITOR DIRECTIONS TO EAST GATE BELOW.

*******ALL VISITORS WITHOUT DOD DECAL AND ID SEE BELOW*******

*******ALL VISITORS MUST ENTER AT EAST GATE AND GET PASS*******

TO EAST GATE***EXIT 105 ONTO HWY 36 EAST. GET IN LEFT LANE AN GO TO 3RD LIGHT. AT THIRD LIGHT, TURN LEFT ONTO WYCKOFF RD. WYCKOFF DEAD ENDS ON BROAD ST, TURN RIGHT ON BROAD ST AND MAKE IMMEDIATE LEFT AT TRAFFIC LIGHT ONTO MAIN ST. FOLLOW MAIN ST TO OCEANPORT AVE TRAFFIC LIGHT AND TURN LEFT. GO TO VISITOR CONTROL (TRAILER) ON RIGHT TO GET A VISITOR'S PASS. YOU ARE REQUIRED TO HAVE PICTURE ID, DRIVERS LICENSE, VEHICAL REGISTRATION OR RENTAL CAR AGREEMENT TO GET A PASS AND VISITOR INFORMATION ENTERED INTO VISITOR DATA BASE.**

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FOLLOW SIGNS FOR AIRPORT EXIT, THEN FOLLOW SIGNS TO THE NEW JERSEY TURNPIKE SOUTH (TOLL ROAD). CONTINUE ON TURNPIKE TO EXIT 11 (GARDEN STATE PARKWAY - SOUTH - TOLL ROAD))

GARDEN STATE PARKWAY SOUTH TO EXIT 105 ONTO HWY 36 EAST. GET IN LEFT LANE. FOLLOW VISITOR DIRECTIONS TO EAST GATE ABOVE.

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