

SOLICITATION, OFFER AND AWARD			1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING	PAGE OF PAGES 1 92	
2. CONTRACT NO. W91CRB-11-D-0082		3. SOLICITATION NO. W91CRB-10-R-0051	4. TYPE OF SOLICITATION [] SEALED BID (IFB) [X] NEGOTIATED (RFP)	5. DATE ISSUED 13 Aug 2010	6. REQUISITION/PURCHASE NO. W912131201030GP		
7. ISSUED BY US ARMY RDECOM CONTR CTR - W91CRB 4118 SUSQUEHANNA AVENUE ABERDEEN PROVING GROUND MD 21005-3013			CODE W91CRB	8. ADDRESS OFFER TO (If other than Item 7)		CODE	
TEL: FAX:			See Item 7		TEL: FAX:		

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

SOLICITATION

9. Sealed offers in original and 5 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in see item 8 until 03:00 PM local time 20 Sep 2010
(Hour) (Date)

CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-1. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL:		A. NAME SIMONA POWELL	B. TELEPHONE (Include area code) (NO COLLECT CALLS) 410-306-1392	C. E-MAIL ADDRESS simona.powell@us.army.mil
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OFFER (Must be fully completed by offeror)

NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.

12. In compliance with the above, the undersigned agrees, if this offer is accepted within _____ calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

13. DISCOUNT FOR PROMPT PAYMENT (See Section I, Clause No. 52.232-8)					
14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated):		AMENDMENT NO.	DATE	AMENDMENT NO.	DATE
15A. NAME AND ADDRESS OF OFFEROR ITT CORPORATION 7635 PLANTATION RD ROANOKE VA 24019-3222		CODE 13567	FACILITY	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)	
15B. TELEPHONE NO (Include area code) 540-563-0371	15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE. <input type="checkbox"/>		17. SIGNATURE		18. OFFER DATE

AWARD (To be completed by Government)

19. ACCEPTED AS TO ITEMS NUMBERED		20. AMOUNT \$606,484,000.00		21. ACCOUNTING AND APPROPRIATION	
22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304(c)() <input type="checkbox"/> 41 U.S.C. 253(c)()		23. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified)		ITEM	
24. ADMINISTERED BY (If other than Item 7) DCMA MANASSAS - S2404A 10500 BATTLEVIEW PKWY SUITE 200 MANASSAS VA 20109-2342		CODE S2404A	25. PAYMENT WILL BE MADE BY DFAS COLUMBUS - HQ0304 DFAS JAIQBAC CO ATTN: ST LOUIS PO BOX 182307 COLUMBUS OH 43218-2307		CODE HQ0304
26. NAME OF CONTRACTING OFFICER (Type or print) ANGELA K. SAWYER TEL: EMAIL: angela.sawyer@us.army.mil		27. UNITED STATES OF AMERICA  (Signature of Contracting Officer)		28. AWARD DATE 23-Mar-2011	

IMPORTANT - Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0001	PY1 - OMNIBUS VIII SYSTEMS - AN/PVS-7D FFP PRODUCTION YEAR (PY) 1	5,000	Each	\$3,399.00	\$16,995,000.00

The contractor shall provide Enhanced 3rd Generation Ground Night Vision Imaging systems in accordance with the attached SOW entitled, "Statement of Work For Omnibus VIII, Enhanced Third Generation Image Intensification, Ground Night Vision Imaging Systems".
FOB: Destination

MAX NET AMT	\$16,995,000.00
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ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0002	PY2 - OMNIBUS VIII SYSTEMS - AN/PVS-7D FFP PRODUCTION YEAR (PY) 2	5,000	Each	\$3,518.00	\$17,590,000.00

The contractor shall provide Enhanced 3rd Generation Ground Night Vision Imaging systems in accordance with the attached SOW entitled, "Statement of Work For Omnibus VIII, Enhanced Third Generation Image Intensification, Ground Night Vision Imaging Systems".
FOB: Destination

MAX NET AMT	\$17,590,000.00
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ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0003	PY3 - OMNIBUS VIII SYSTEMS - AN/PVS-7D FFP PRODUCTION YEAR (PY) 3	6,000	Each	\$3,641.00	\$21,846,000.00

The contractor shall provide Enhanced 3rd Generation Ground Night Vision Imaging systems in accordance with the attached SOW entitled, "Statement of Work For Omnibus VIII, Enhanced Third Generation Image Intensification, Ground Night Vision Imaging Systems".
 FOB: Destination
 PURCHASE REQUEST NUMBER: W912131201030GP

MAX NET AMT	\$21,846,000.00
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ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0004	PY1 - OMNIBUS VIII SYSTEMS - AN/PVS-14 FFP PRODUCTION YEAR (PY) 1	45,000	Each	\$2,708.00	\$121,860,000.00

The contractor shall provide Enhanced 3rd Generation Ground Night Vision Imaging systems in accordance with the attached SOW entitled, "Statement of Work For Omnibus VIII, Enhanced Third Generation Image Intensification, Ground Night Vision Imaging Systems".

FOB: Destination

MAX NET AMT	\$121,860,000.00
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ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0005	PY2 - OMNIBUS VIII SYSTEMS - AN/PVS-14 FFP PRODUCTION YEAR (PY) 2	45,000	Each	\$2,905.00	\$130,725,000.00

The contractor shall provide Enhanced 3rd Generation Ground Night Vision Imaging systems in accordance with the attached SOW entitled, "Statement of Work For Omnibus VIII, Enhanced Third Generation Image Intensification, Ground Night Vision Imaging Systems".
FOB: Destination

MAX NET AMT	\$130,725,000.00
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ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0006	PY3 - OMNIBUS VIII SYSTEMS - AN/PVS-14 FFP PRODUCTION YEAR (PY) 3	45,000	Each	\$3,007.00	\$135,315,000.00

The contractor shall provide Enhanced 3rd Generation Ground Night Vision Imaging systems in accordance with the attached SOW entitled, "Statement of Work For Omnibus VIII, Enhanced Third Generation Image Intensification, Ground Night Vision Imaging Systems".
FOB: Destination

MAX NET AMT	\$135,315,000.00
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ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0007	PY1 - IMAGE INTENSIFIER TUBES - MX-11769 FFP PRODUCTION YEAR (PY) 1	30,000	Each	\$2,099.00	\$62,970,000.00

The contractor shall provide Enhanced 3rd Generation Ground Night Vision Imaging system intensifier tubes in accordance with the attached SOW entitled, "Statement of Work For Omnibus VIII, Enhanced Third Generation Image Intensification, Ground Night Vision Imaging Systems".
FOB: Destination

MAX NET AMT	\$62,970,000.00
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ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0008	PY2 - IMAGE INTENSIFIER TUBES - MX-11769 FFP PRODUCTION YEAR (PY) 2	1,000	Each	\$2,432.00	\$2,432,000.00

The contractor shall provide Enhanced 3rd Generation Ground Night Vision Imaging system intensifier tubes in accordance with the attached SOW entitled, "Statement of Work For Omnibus VIII, Enhanced Third Generation Image Intensification, Ground Night Vision Imaging Systems".
FOB: Destination

MAX NET AMT	\$2,432,000.00
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ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0009	PY3 - IMAGE INTENSIFIER TUBES - MX-11769 FFP PRODUCTION YEAR (PY) 3	25,000	Each	\$2,249.00	\$56,225,000.00

The contractor shall provide Enhanced 3rd Generation Ground Night Vision Imaging system intensifier tubes in accordance with the attached SOW entitled, "Statement of Work For Omnibus VIII, Enhanced Third Generation Image Intensification, Ground Night Vision Imaging Systems".
FOB: Destination

MAX NET AMT	\$56,225,000.00
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ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0010	PY1 - IMAGE INTENSIFIER TUBES - MX-10130 FFP PRODUCTION YEAR (PY) 1	1,000	Each	\$2,379.00	\$2,379,000.00

The contractor shall provide Enhanced 3rd Generation Ground Night Vision Imaging system intensifier tubes in accordance with the attached SOW entitled, "Statement of Work For Omnibus VIII, Enhanced Third Generation Image Intensification, Ground Night Vision Imaging Systems".
FOB: Destination

MAX NET AMT	\$2,379,000.00
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ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0011	PY2 - IMAGE INTENSIFIER TUBES - MX-10130 FFP PRODUCTION YEAR (PY) 2	1,000	Each	\$2,462.00	\$2,462,000.00

The contractor shall provide Enhanced 3rd Generation Ground Night Vision Imaging system intensifier tubes in accordance with the attached SOW entitled, "Statement of Work For Omnibus VIII, Enhanced Third Generation Image Intensification, Ground Night Vision Imaging Systems".
FOB: Destination

MAX NET AMT	\$2,462,000.00
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ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0012	PY3 - IMAGE INTENSIFIER TUBES - MX-10130 FFP PRODUCTION YEAR (PY) 3	15,000	Each	\$2,379.00	\$35,685,000.00

The contractor shall provide Enhanced 3rd Generation Ground Night Vision Imaging system intensifier tubes in accordance with the attached SOW entitled, "Statement of Work For Omnibus VIII, Enhanced Third Generation Image Intensification, Ground Night Vision Imaging Systems".
FOB: Destination

MAX NET AMT	\$35,685,000.00
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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013	SPARE PARTS (AN/PVS-7 & AN/PVS-14) FFP The contractor shall provide Enhanced 3rd Generation Ground Night Vision Imaging systems spares in accordance with the attached SOW entitled, "Statement of Work For Omnibus VIII, Enhanced Third Generation Image Intensification, Ground Night Vision Imaging Systems".		Each		\$0.00
	Spares under this CLIN will be priced with each order and in accordance with FAR Part 16 and DFARS 217.75. FOB: Destination				
					NET AMT
					\$0.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0014	CDRL's FFP Reference Attachment J.2 for CDRL details.	UNDEFINED			NSP
	This CLIN will be priced with each order. FOB: Destination				
					MAX NET AMT
					\$0.00

MINIMUM & MAXIMUM

Minimum guaranteed award for each awardee is (1) One OMNIBUS VIII system. The Maximum total units for this acquisition (including all contracts and orders in support of this requirement) is the maximum quantity specified under each CLIN for the systems and Image Intensifier Tubes. The Government does not anticipate that the total units will be evenly divided among awardees; rather, the Government will competitively award individual orders in accordance with FAR Part 16.

ITT'S STEPLADDER PRICING

CLINS	STEPLADDER RANGE			ITT'S STEPLADDER PRICES
CLIN 0001- PY1- PVS-7D				
	1	-	1000	\$3,399
	1001	-	2000	\$3,399
	2001	-	3000	\$3,399
	3001	-	4000	\$3,399
	4001	-	5000	\$3,399
CLIN 0002- PY2- PVS-7D				
	1	-	1000	\$3,518
	1001	-	2000	\$3,518
	2001	-	3000	\$3,518
	3001	-	4000	\$3,518
	4001	-	5000	\$3,518
CLIN 0003- PY3- PVS-7D				
	1	-	1000	\$3,641
	1001	-	2000	\$3,641
	2001	-	3000	\$3,641
	3001	-	4000	\$3,641
	4001	-	5000	\$3,641
	5001	-	6000	\$3,641
CLIN 0004- PY1- PVS-14				
	1	-	5,000	\$3,299
	5001	-	10,000	\$3,130
	10001	-	15,000	\$3,130
	15001	-	20,000	\$3,013
	20001	-	25,000	\$3,013
	25001	-	30,000	\$2,899
	30001	-	35,000	\$2,899
	35001	-	40,000	\$2,807
	40001	-	45,000	\$2,807
CLIN 0005- PY2- PVS-14				
	1	-	5,000	\$3,414
	5001	-	10,000	\$3,240
	10001	-	15,000	\$3,240
	15001	-	20,000	\$3,118
	20001	-	25,000	\$3,118
	25001	-	30,000	\$3,000
	30001	-	35,000	\$3,000

	35001	-	40,000	\$2,905
	40001	-	45,000	\$2,905
CLIN 0006- PY3- PVS-14				
	1	-	5,000	\$3,534
	5001	-	10,000	\$3,353
	10001	-	15,000	\$3,353
	15001	-	20,000	\$3,228
	20001	-	25,000	\$3,228
	25001	-	30,000	\$3,105
	30001	-	35,000	\$3,105
	35001	-	40,000	\$3,007
	40001	-	45,000	\$3,007
CLIN 0007- PY1-MX11769				
	1	-	5,000	\$2,350
	5001	-	10,000	\$2,288
	10001	-	15,000	\$2,288
	15001	-	20,000	\$2,213
	20001	-	25,000	\$2,099
	25001	-	30,000	\$2,099
CLIN 0008- PY2-MX11769				
	1	-	200	\$2,432
	201	-	400	\$2,432
	401	-	600	\$2,432
	601	-	800	\$2,432
	801	-	1000	\$2,432
CLIN 0009- PY3-MX11769				
	1	-	5,000	\$2,517
	5001	-	10,000	\$2,451
	10001	-	15,000	\$2,451
	15001	-	20,000	\$2,371
	20001	-	25,000	\$2,249
CLIN 0010 - PY1-MX10130				
	1	-	200	\$2,379
	201	-	400	\$2,379
	401	-	600	\$2,379
	601	-	800	\$2,379
	801	-	1000	\$2,379
CLIN 0011- PY2-MX10130				
	1	-	200	\$2,462
	201	-	400	\$2,462
	401	-	600	\$2,462
	601	-	800	\$2,462
	801	-	1000	\$2,462

CLIN 0012- PY3-MX10130				
	1	-	5,000	\$2,548
	5001	-	10,000	\$2,480
	10001	-	15,000	\$2,379

Section C - Descriptions and Specifications

STATEMENT OF WORK

**Statement of Work
For OMNIBUS VIII
Enhanced Third Generation Image Intensification
Ground Night Vision Devices**

1.0 Scope. This statement of work (SOW) specifies the tasks and efforts the contractor shall perform during this production contract for enhanced third generation image intensifier night vision devices. The intent of this contract is to acquire the following Omnibus VIII systems/devices and components:

AN/PVS-14, Monocular Night Vision Device (MNVD);
AN/PVS-7D, Night Vision Goggles;
MX-11769/UV Image Intensifier Assembly;
MX-10130D/UV Image Intensifier Assembly, Purge Device and
All associated system spare parts for both new and fielded AN/PVS-7 and AN/PVS-14 systems.

This SOW provides the technical, program management, configuration management, quality assurance, integrated logistics support (ILS), technical manual, provisioning, safety, and interchangeability requirements for the items being sought under this procurement. The contractor shall ensure that the delivered Omnibus VIII systems/devices and components comply with the requirements listed under paragraph 3. The contractor is encouraged to use commercial/industrial processes and practices that will reduce design, production, and operational support costs while meeting the requirements of this contract.

2.0 Applicable Documents. The following documents form a part of this SOW to the extent specified herein.

2.1 Government documents.

DOD 5220.22- M	National Industrial Security Program Operating Manual (http://www.dtic.mil/whs/directives/corres/html/522022.htm)
AR 25-1	Army Knowledge Management and Information Technology (http://www.army.mil/usapa/epubs/pdf/r25_1.pdf)
AR 25-2	Information Assurance (http://www.apd.army.mil/pdffiles/r25_2.pdf)
AR 380-10	Foreign Disclosure and Contacts with Foreign Representatives (http://www.army.mil/usapa/epubs/pdf/r380_13.pdf)
AR 380-49	Industrial Security Program (http://www.army.mil/usapa/epubs/pdf/r380_49.pdf)
AR 380-67	Personnel Security Program (http://www.army.mil/usapa/epubs/pdf/r380_67.pdf)
MIL-STD-1916	

DoD Test Method Standard, DoD Preferred Methods for
Acceptance of Product

Performance Specifications

MIL-PRF-A3256342(CR)	Lens Assembly, Objective for Monocular Night Vision Device, AN/PVS-14
MIL-PRF-A3256363(CR)	Image Intensifier Assembly, 18MM, Microchannel Wafer MX-11769/UV
MIL-PRF-49184(CR)	Lens Group, Eyepiece for Night Vision Goggle, AN/PVS-7()
MIL-PRF-49190(CR)	Lens Assembly, Objective for Night Vision Goggle, AN/PVS-7()
MIL-PRF-49257	Coated Optical Components (COC)
MIL-PRF-49313(CR)	Night Vision Goggle, AN/PVS-7D
MIL-PRF-49324(CR)	Monocular Night Vision Device, AN/PVS-14
MIL-PRF-49427(CR)	Lens Assembly, Eyepiece for Aviator's Night Vision Imaging System, AN/AVS-6(V)()and Monocular Night Vision Device, AN/PVS-14
MIL-PRF-49453(CR)	Image Intensifier Assembly, 18MM, Microchannel Wafer MX-10130D/UV

Drawings

A3144261	Goggle Assembly
A3144268	Headset Assembly
A3144305	Objective Lens
A3144310	Rear Cover Assy
A3172531	Collimator, AN/PVS-7B
A3207330	Wired Housing Assembly
A3256337	AN/PVS-14 MNVD
A3256340	Monocular Assembly
A3256341	Monocular Housing
A3256342	Lens, Optical (Eyepiece)
A3256344	Cover, Battery Retainer
A3256348	Bracket, Mounting
A3297310	Image Intensifier Assembly, MX-11769/UV
A3297313	Battery Compartment - Single
A3297320	Image Intensifier Assembly, MX-11769/UV
A3256340	Monocular Assembly
A3256342	Objective Lens Assembly
A3256352	Eyepiece Lens Assembly
A3256368	Helmet Mount Assembly
A3256387	Night Vision Goggle Set, AN/PVS-7D
A3297290	Image Intensifier Assembly, MX-10130D/UV

A3297300	Image Intensifier Assembly, MX-10130D/UV
A3297307	Bracket Lever, ACH Front Bracket
5009545	Eyepiece Assembly
5009737	Light Interference Filter (LIF) Assembly MX-
5007665	11617/UV Purge Device

Note: All military and government specifications and standards cited on the drawings are for reference only and do not form a part of the requirement thereon.

Technical Manuals

TM-11-5855-262-10-2	Operator's Manual, Night Vision Goggles, AN/PVS-7B and AN/PVS-7D
TM 11-5855-262-23&P-2	Unit and Direct Support Maintenance Manual Including Repair Parts and Special Tools List, Night Vision Goggles AN/PVS-7B and AN/PVS-7D
TM 11-5855-306-10	Operator's Manual, Monocular Night Vision Device (MNVD), AN/PVS-14
TM 11-5855-306-23&P	Unit and Direct Support Maintenance Manual Including Repair Parts and Special Tools List, Monocular Night Vision Device (MNVD), AN/PVS-14

2.2 Non-Government Documents.

ANSI/ASQC Q9001:2008	Quality Management Systems - Requirements
ANSI/ASQ Z1.4-2008	Sampling Procedures and Tables for Inspection by Attributes
ANSI/NCSL Z540.3-2006	Requirements for the Calibration of Measuring and Test Equipment
AMSE Y14.5M-2009	Dimensioning and Tolerancing
ANSI/ASQ Q10012-2003	Measurement Management Systems - Requirements for Measurement Processes and Measuring Equipment
ASTM D 3951	Standard Practice for Commercial Packaging

2.3 Order of Precedence, Issue of Specifications (Statement of Work).

2.3.1 The documents listed in this Section 2.1 (Performance Specifications, Drawings, and Technical Manuals) are furnished at Section J. The equipment on contract will be produced in accordance with these documents.

2.3.2 The issue(s) (i.e., number, revision, title and issuance date) of the documents cited at Section J govern over any other issue of the same document(s) cited elsewhere within this contract. When necessary, copies of cancelled or superseded specifications and/or standards applicable to this contract are furnished in Section J.

2.3.3 Contract Data Requirements Lists (CDRLs), DD Form 1423s, that apply to this contract will be included in Section J. The contractor shall prepare and Deliver the data and information in accordance with the requirements, quantities and schedules set forth by these CDRLs.

2.3.4 The contractor shall review the entire contract to identify all directly cited and subsequent referenced documents. Unless stated explicitly elsewhere in this contract, the issue of these documents appear in the ASSIST database at <http://assist.daps.dla.mil> and the ASSIST Update (a bi-monthly summary of changes to the ASSIST document database) may be viewed or downloaded at <http://dodssp.daps.dla.mil>. ASSIST is the official source for all Defense Standardization Program documents and contains the most current information. Upon completion of this review, the contractor shall notify the Procuring Contracting Officer (PCO) of any conflicts or misunderstandings between this provision and other contractual requirements.

2.3.5 All directly cited or referenced documents not furnished with this solicitation may be obtained as follows:

a. Specifications and Standards can be downloaded at <http://assist.daps.dla.mil/online/start/>, <http://dodssp.daps.dla.mil> or:

DODSSP
Building 4/Section D
700 Robbins Avenue
Philadelphia, PA 19111-5094
FAX: (215) 697-1462

Free registration for a UserID and password are required prior to using ASSIST-Online. In most cases, you should be able to download cases from your standard browser. The ASSIST-Online Website is located at: <http://assist.daps.dla.mil/online/start/>.

b. Commercial Specifications, Standards, and Standards and Descriptions. When applicable, obtain these documents directly from the publisher.

c. Standard Practice for Commercial Packaging (ASTM D 3951). When applicable, obtain these documents from:

American Society for Testing Materials
1916 Race Street
Philadelphia, PA 19103

2.3.6 Notes for Government-Furnished Drawings. The drawings specified in this contract depict the physical and functional requirements for the complete item and parts thereof. They do not contain complete details of all intervening processes, from raw material to finished products, which are necessary to fabricate, control, test, adjust, assemble and inspect the equipment on order. Disposition of drawings and specifications shall be as follows:

(1) Nonclassified drawings and specifications furnished with this contract are not to be returned to the Government. They may be retained by the offeror for future reference or disposed of in any manner at the discretion of the contractor.

(2) Disposition of classified documents furnished with this contract shall be in accordance with DoD 5220.22-M.

2.3.7 Discrepancies in Section B Item Descriptions. The contractor is responsible for notifying the PCO immediately in the event that:

a. A line item in this solicitation does not identify the correct part number, drawing number, or specification, or

- b. The identification of such parts is inconsistent, or
- c. The line item refers to an obsolete part/model or a part/model which is no longer the latest baseline configuration for that item.

In such situations, the bidder/offeror will submit correcting information to the PCO for evaluation.

2.3.8 Definition of Days After Receipt (DAR). The abbreviation 'DAR' for Days After Receipt as used in the Contract Data Requirements List, DD Form 1423, attached to this solicitation or contract, means calendar days after date of receipt of an order.

2.4 Document Summary List (DSL) - Issue of Specifications, Standards and Related Documents.

2.4.1 The contractor shall review the entire contract to identify all applicable documents. Immediately upon completion of this review, the contractor shall notify the Procuring Contracting Officer (PCO) of any conflicts or misunderstandings between the DSL and other contractual requirements.

a. All non-cited documents that are referenced or incorporated by the documents cited on the DSL shall be contractually binding in accordance with the Document Category of the cited document (paragraph 2.4.2 below). Unless stated explicitly elsewhere in this contract, the issue of such non-cited document(s) is that which appears in the ASSIST and ASSIST Update or Acquisition Management Systems.

b. Should the DSL fail to identify a first tier document with its revision level, date and/or approved changes, the issue of document(s) shown at the ASSIST website and in ASSIST Update applies. Unless otherwise specified in this contract, such documents shall be considered as Category 2 (paragraph 2.4.2 below).

2.4.2 The following document categories apply:

a. Category 1. The requirements contained in the directly cited document are contractually applicable to the extent specified. Unless otherwise specified in the contract, all requirements contained in referenced and subsequently referenced documents are contractually applicable for guidance and information only.

b. Category 2. The requirements contained in the directly cited document and reference documents identified in the directly cited document are contractually applicable to the extent specified. Unless otherwise specified in the solicitation/contract, or contract modifications, all requirements contained in subsequently referenced documents within reference documents are contractually applicable for guidance and information only.

c. Category 3. Unless otherwise specified in the solicitation, contract or contract modifications, all requirements contained in the directly cited document and all reference and subsequently referenced documents are contractually applicable to the extent specified in the higher-tiered document.

2.4.3 Tailoring. In case of conflict regarding applicable tailoring between the DSL and other requirements contained in this contract, the order of precedence is:

- (1) Product Specification;
- (2) Statement of Work;
- (3) Document Summary List

3.0 Requirements.

3.1 Interchangeability, Interface and Performance Characteristics. All systems, image intensifiers, and spare parts delivered under this contract shall be form, fit, and function interchangeable and without degradation of performance with previously fielded systems, image intensifiers, and spare parts of the same kind down to the spare part level, as established by the current maintenance concept of the U.S. Army. The U.S. Army maintenance concepts for the AN/PVS-7 are detailed in TM 11-5855-262-10-2, TM 11-5855-262-23&P-2, and drawing A3256387 for the AN/PVS-7. The U.S. Army maintenance concepts for the AN/PVS-14 are detailed in TM 11-5855-306-10, TM 11-5855-306-23&P, and drawing A3256337 for the AN/PVS-14. All MANPRINT/man-machine interface characteristics shall be maintained as established in previously fielded systems.

3.1.1 Night Vision Devices.

3.1.1.1 Night Vision Goggle (NVG), AN/PVS-7D. The AN/PVS-7D Night Vision Goggle system shall meet the requirements of MIL-PRF-49313(CR), Night Vision Goggle, AN/PVS-7D. The AN/PVS-7D systems, image intensifiers, and component parts shall meet the form, fit, and function requirements as defined in the Government baseline technical data package drawing A3256387.

3.1.1.2 Monocular Night Vision Device (MNVD), AN/PVS-14. The AN/PVS-14 Monocular Night Vision Device (MNVD) shall meet all requirements of MIL-PRF-49324(CR), Monocular Night Vision Device, AN/PVS-14. The AN/PVS-14 systems, image intensifiers, and component parts shall meet the form, fit, and function requirements of drawing A3256337.

3.1.1.3 Foreign Military Sales. AN/PVS-7D and AN/PVS-14 systems delivered for Foreign Military Sales (FMS) shall meet requirements as specified in paragraph 3.1.1.1 and paragraph 3.1.2.1, respectively, with the following exceptions:

- a. Systems shall have a Figure of Merit (FOM) of [1600 or 1250] or lower where $FOM = (\text{Resolution in lp/mm}) \times (\text{Signal to Noise Ratio})$ based on measured values.
- b. Systems shall have a Halo size greater than 1.0 mm.
- c. System image intensifier tubes shall NOT have a gated power supply.
- d. Systems shall NOT have "US Government Property" or "US Property" marking.
- e. Systems shall have standard system labels or equivalent labels approved by the Government.
- f. Systems shall have a modified TM supplied by Government or approved commercial equivalent technical manual.
- g. Light Interference Filters (LIF) shall NOT be included with the systems.
- h. LIFs are Government property and shall be shipped in place until direction from the Government is provided.

Note: These requirements are subject to change based on Department of State approval conditions for each FMA case.

3.1.1.3 Purge Device. The Purge Device shall meet the requirements of drawing 5007665.

3.1.2 Image Intensifiers.

3.1.2.1 MX-11769/UV. The MX-11769/UV Image Intensifier shall meet the requirements of MIL-PRF-A3256363(CR), and the form, fit, and function requirements of drawing A3297310 or A3297320.

3.1.2.2 MX-10130D/UV. The MX-10130D /UV Image Intensifier shall meet the requirements of MIL-PRF-49453(CR), and the form, fit, and function requirements of drawing A3297290 or A3297300.

3.1.2.3 Foreign Military Sales. MX-11769/UV and MX-10130D/UV Image intensifier tubes delivered for Foreign Military Sales (FMS) shall meet requirements as specified in paragraph 3.5.1 and paragraph 3.5.2, with the following exceptions:

- a. Image intensifier tubes shall have a Figure of Merit (FOM) of [1600 or 1250] or lower where $FOM = (Resolution \text{ in } lp/mm) \times (Signal \text{ to } Noise \text{ Ratio})$ based on measured values.
- b. Image intensifier tubes shall have a Halo size greater than 1.0 mm.
- c. Image intensifier tubes shall NOT have a gated power supply.
- d. Image intensifier tubes shall NOT have "US Government Property" or "US Property" marking.
- e. Image intensifier tubes shall have standard system labels or equivalent labels approved by the Government.

Note: These requirements are subject to change based on Department of State approval conditions for each FMA case.

3.1.3 The Government may independently verify hardware compliance to the Interface Control Drawings (ICDs) and performance specifications. The contractor shall be required to justify and/or rectify any identified discrepancies between the hardware performance/configuration and these documents when such discrepancies are identified.

3.2 Standards. A Government concurred-on calibration system with respect to radiation sources, photometric equipment, color temperature, and ancillary equipment shall be maintained to support this program. Test environments shall be maintained that provide ability to produce the environmental conditions required to verify performance of delivered product in accordance with system/component performance specifications and the approved Quality Validation Plan (QVP). **Appendix A** defines the US Government's Night Vision & Electronic Sensors Directorate (NVESD) test conditions, technical interpretations, and test methods for Photocathode Sensitivity, Equivalent Background Input (EBI), Saturation, Luminance Gain, Halo, Halo Variation, Signal-to-Noise Ratio (SNR), Center Resolution, and Modulation Transfer Function (MTF). The contractor shall have in place an equal or superior approach to that defined in Appendix A. If the contractor approach is different than as defined in Appendix A, Government approval is required for its use. The contractor shall maintain not less than three (3) each contractor-owned image tube standards of each tube assembly and module type. For these image tube standards, the contractor shall maintain measurement records for critical performance parameters including SNR, Resolution, Luminance Gain, Saturation, EBI, Halo, MTF, and Photocathode Sensitivity. These measurements shall be made and documented on at least a quarterly basis (i.e., no longer than every 90 days) and all such data shall be made available to the Government upon request for the life of the contract. All such measurements shall be performed on actual production test and acceptance equipment. The contractor shall allow the Government to visit the contractor's production test/evaluation facilities on up to a quarterly basis, in order to ensure conformance with the above requirements. As part of this process, the contractor shall also measure during this visit up to fifteen

(15) each Government-owned tube assemblies and modules of each tube type. These measurements will be used for correlation assessments against measurements made at NVESD, as well as other manufacturing facilities and DoD organizations. In the case of discrepancies between measurements made at NVESD and the contractor's facility, NVESD measurements shall take precedence, the contractor shall correct their measurement system or methodology to bring their measurements into correlation with those of NVESD, and the Government shall stop product acceptance until such time that contractor measurement system is brought into correlation with those of NVESD.

3.3 Program Management Requirements. The objective of program management is to provide both the contractor and Government with management information and tools required to effectively manage work performed under this contract, minimize system performance risk, and ensure adherence to established program schedule.

3.3.1 Integrated Product And Process Team (IPPT). The Government and contractor shall incorporate an IPPT discipline into the Omnibus VIII program. The objective of the IPPT is to implement an open shared data/information environment with results oriented objectives of on schedule delivery of specification compliant units, continuously improving the various Government/contractor processes, and reducing the system life cycle cost. The IPPT shall also complete the following additional actions throughout the life of the contract:

- a. Hold IPPT reviews
- b. Use risk management techniques to document, track, and manage program areas of risk
- c. Review/concur in program documentation
- d. Review follow-on Initial Production Tests (IPTs) with the goal of reducing repetitive testing
- e. Review/concur on all Failed Item Analysis Reports (FIARs) and ECPs/Deviations/Waivers/Trade studies

The IPT process as described in paragraph(s) is solely to facilitate communications between the Government and contractor during contract administration. Responsibility for dealing with issues raised and for meeting all contract requirements remains with the contractor. No communication made during the IPT process may be construed as a change unless specifically designated by the contracting officer.

3.3.1.1 IPPT Membership. The IPPT membership shall consist of Government and contractor personnel associated with the Omnibus VIII program and related efforts. The Army product Director for Soldier Enhanced Vision shall co-chair the IPPT with the associated contractor counterpart. The IPPT chairpersons shall concur on all items requiring IPPT concurrence. The co-chairs shall define IPPT membership and issue escalation procedures at the post award conference.

3.3.1.2 Computerized Optimization Model Predicting/Analyzing Support/Structure (COMPASS) data. The IPPT is required to utilize the COMPASS model and output data as part of the IPPT's decision making process. The Government will supply the software, and the contractor shall provide the data inputs for the software to the IPPT, to include the cost and reliability for each system component. This tool will be used by the IPPT (Government will run model) during the life of the contract to determine the impact to the operation and support system costs of ECPs and VECs submitted during contract execution. The IPPT co-chairpersons can concur upon the use of an alternative model, if the contractor can demonstrate the alternate model provides similar results as the COMPASS model.

3.3.2 Reports, Reviews, Meetings. For each meeting, the contractor shall prepare and submit an agenda and briefing charts to the Government in accordance with CDRL A001. The contractor and Government at the end of each review/meeting shall jointly prepare action items and review/meeting minutes. The contractor shall submit the meeting minutes and action item list to the Government in accordance with CDRL A001. The contractor shall schedule, with Government concurrence, prepare for, and conduct the following reviews/meetings:

3.3.2.1 Integrated Product and Process Team (IPPT) reviews. The contractor shall participate in and support IPPT reviews at approximately 90-day intervals when required. The first IPPT review shall be conducted on or about 45 days after the post award conference. IPPT reviews may be conducted as teleconferences or video-teleconferences (VTCs) if mutually agreed upon by the IPPT chairpersons. IPPT reviews shall provide a working level forum to identify, discuss, and resolve issues that are, or could, affect the systems performance, design, production, testing, logistics support, system deliveries, life cycle cost, and program schedule. Risk mitigation documentation shall also be reviewed.

3.3.2.2 Informal Reviews. The contractor shall be available for informal reviews and Government visits in addition to the IPPT reviews.

3.3.2.3 Correspondence Transmission. The contractor shall submit, as a minimum, written program correspondence or documentation via electronic submittal. The preferred method of file submission is via e-mail. Deviations from this requirement are allowed on a case by case basis, with Government verbal concurrence (either Government IPPT chairpersons or Government contracting officer).

3.3.2.3.1 Confidential or Secret Material Documents Method of Transmission. Material will be packaged to conceal it properly, avoid suspicion as to contents, and to reach destination in satisfactory condition. NO NOTATION OR CLASSIFICATION MARKINGS TO INDICATE CLASSIFICATION SHALL APPEAR ON OUTER ENVELOPE OR COVER. Documents shall be enclosed in two opaque envelopes or covers. The inner envelope or cover containing the documents being transmitted will be clearly marked on the front and back of the inner container with the classification of the material being transmitted. The classified documents shall be protected from direct contact with the inner cover by a cover sheet or by folding inward. For SECRET documents, a receipt form identifying the addresser, addressee, and documents shall be enclosed in the inner envelope. CONFIDENTIAL documents shall be covered by a receipt only when the sender deems it necessary. The inner envelope or cover will be enclosed in an opaque outer envelope or cover. The classification markings of the inner envelope shall not be detectable. The outer envelope shall be addressed, and sealed. (Refer to Chapter 5, DoD 5220.22-M).

3.3.2.4 Data Submissions.

3.3.2.4.1 Data Requirements. The CDRLs are contained in Section J of the contract. The data items shall be submitted, to the Government via electronic media. The electronic format shall be compliant with Microsoft Office 2003 or 2007 for text documents, spreadsheets, and graphics presentations, and Microsoft Project 2000 for program schedules. Electronic technical manual (ETM) data shall be delivered in accordance with (IAW) paragraph 3.8.3 of this statement of work.

3.3.2.4.2 Contractor Integrated Technical Information Service (CITIS). It is the Government's intent to use CITIS to gain on-line access to contractor maintained data, configuration files, and information supporting the Omnibus

VIII program. The type of information to be placed on CITIS shall be concurred to by the IPPT prior to its implementation. The most recent version of all data shall be made available within five working days of being updated. The CITIS shall allow the Government the capability of retrieving all current and last modified versions of documentation. If the contractor determines this to be a restrictive cost driver, they can propose any alternative data submittal process (i.e. electronic data submittals, e-mail, etc.). Classified data shall be provided on magnetic or optical media. Classified data shall be handled in accordance with DoD 5220.22-M and DD Form 254 attached to the contract. Any restrictions on the use of the electronic data shall be as prescribed in the Data Rights Clause.

3.4 Quality Assurance. The objectives of these Quality Assurance requirements are to ensure the contractor's products and processes are sufficient to enable timely and cost effective deliveries, which meet all performance requirements, and to identify any issues early which might negatively impact the timeliness or performance of the delivered product. The Government reserves the right to audit products and processes, as well as the quality management system at any stage of contract performance.

3.4.1 Quality Management System (QMS). The contractor shall establish, maintain, operate, and continually improve a QMS acceptable to the Government in accordance with ANSI/ASQC Q9001:2008 or equivalent. Any exceptions to ANSI/ASQC Q9001:2008 shall be clearly stated in the QVP. The contractor shall provide the Government an overview of their quality system plan at the PAC. Quality and reliability shall be addressed at each contractually required review, to include statistical process control (SPC) and other quality management metrics that depict the effectiveness of the QMS and the achievement of critical process control at both the contractor's and major suppliers' locations.

3.4.1.1 Calibration Process. The contractor shall maintain a calibration process in accordance with ANSI/NCSL Z540.3-2006 or ANSI/ASQ Q10012-2003 or equivalent. The measurement and test equipment used in this acquisition to validate compliance with requirements shall be appropriately calibrated, labeled and traceable to national measurement standards. All measuring and testing equipment used on this acquisition shall be listed in the applicable test procedure as part of the Quality Validation Plan (QVP).

3.4.1.2 Responsibility For Inspection. The contractor shall be responsible for the performance of all inspection requirements specified herein. Except as otherwise specified elsewhere in the contract, the contractor may use his own or any other facilities, with IPPT concurrence, suitable for the performance of the inspection requirements specified herein. The Government reserves the right to perform, witness, or verify any of the inspections deemed necessary to assure supplies and services conform to prescribed requirements. The contractor shall be responsible for correcting any deficiencies found during Government testing in all affected contractor product.

3.4.1.3 Use of Contractor's Inspection and Test Equipment. The contractor's inspection, measuring and testing devices shall be made available when required by the Government to determine conformance with contract requirements. If requested by the Government, the contractor's personnel shall be made available to operate such devices and for verification of their accuracy and condition.

3.4.1.4 Use of Government Property/Material. The contractor's quality management system shall include procedures for the control, use, and maintenance of Government furnished material and property. The contractor

shall report to the procuring activity any Government furnished property or material that is found damaged, malfunctioning, or otherwise unsuitable for use.

3.4.1.5 Supplier Management. The contractor is responsible for the work performed by his suppliers including any inspections and tests performed by the suppliers. The contractor shall describe any methods unique to this contract of supplier selection, retention, management, inspection and test validation or other supplier controls above and beyond that which is described in the contractor's generic QMS. Suppliers of key/critical components or processes controlling key/critical characteristics shall be identified including names and contact information of key supplier personnel. The Government reserves the right to review/audit any suppliers of key/critical components. No review/audit of any suppliers by the Government will relieve the contractor of his responsibility for his suppliers.

3.4.1.6 Inspection and Test Records. The contractor shall maintain complete and accurate records of all inspections and tests, and shall make those records available for review by the Government upon request.

3.4.2 Quality Validation Plan (QVP). The contractor shall prepare a Quality Validation Plan (QVP) IAW CDRL A002 in response to this SOW.

3.4.3 Failed Item Analysis Reports (FIARS). The contractor shall describe his failure reporting process. For each failure that occurs the contractor shall prepare and submit notification and a FIAR IAW CDRL A003.

3.4.4 Initial Production Test (IPT)/Conformance Inspection (CI)/Acceptance Test (AT). The contractor shall conduct IPT, CI, and AT for each image tube, spare component, and system type, as required IAW the QVP and test procedures concurred on by the IPPT, to demonstrate conformance to all Omnibus VIII performance specifications requirements. An IPT shall only be conducted with non-qualified vendors (i.e. a suppliers who has not received a qualification letter prior to award of this contract). If an IPT is required, the lot size shall be 20 systems, image intensifiers, or spares components, as required, for each type of product requiring qualification. If an IPT is required, the IPT shall be performed to the extent necessary, as determined and agreed upon by the IPPT, to verify compliance to specification requirements for all characteristics of the product. At the conclusion of each IPT conducted, the contractor shall submit an IPT test report IAW the requirements of paragraph 3.4.5 of this statement of work. Government approval of each image tube, spare component, or system type IPT is contingent upon successfully completing IPT and meeting paragraph 3.8 (ILS & MANPRINT) sub-paragraph requirements for that tube, spare component, or system. If a significant redesign has occurred the Government may conduct an operational test (OT), to include compatibility testing, to ensure the system is operationally effective and suitable, and interoperable with other Army equipment. If an OT is required, IPT concurrence is contingent on a successful OT. Approval of each tube, spare component, or system type IPT shall constitute successful completion of the CI requirements for the first production lot for the particular tube, spare component, or system under test. Reduction or elimination of CI based on in-process inspection and control of processes is encouraged.

3.4.5 IPT/CI Test Plans/Procedures. For each image tube, spare component, and system type, the contractor shall prepare and submit to the IPPT, for concurrence, PQT and CI test plans/procedures in compliance with the quality validation plan and IAW CDRL A004.

3.4.6 IPT Test Reports. Upon completion of each IPT, the contractor shall prepare and submit an IPT test/inspection report IAW CDRL A005.

3.4.7 Reliability Reports. Upon completion of each production reliability test, the contractor shall deliver to the IPPT a report of the reliability test results IAW CDRL A005.

3.4.8 Disposition of Test Units. The contractor shall refurbish all items exposed to environmental, user testing, and/or reliability inspections as required. Subsequent to refurbishment, the items shall conform to all performance specification requirements and be deliverable under the contract.

3.4.9 Environmental Stress Screening (ESS). Each system, image intensifier assembly and associated power supply shall be subjected to an environmental stress screening (ESS) with an appropriate failure free verification period. The ESS profile shall be designed to effectively reduce/eliminate workmanship and infant mortality type defects of the system. Causes of ESS failures shall be tracked, investigated, and closed per Contractor internal procedures for the purpose of continuously improving the screen and the manufacturing processes. ESS performance data shall be made available to the Government for on-site review upon request. Modification of the ESS profile may be allowed with IPPT approval based on ESS data evaluations. The contractor shall present the ESS status (e.g., serial numbers, pass/fail, reasons for failure(s), corrective actions) at each IPPT review.

3.4.10 Warranty of Equipment. The contractor shall provide their standard industry warranty for all products delivered under this contract.

3.4.11 Government Testing. The Government may conduct additional testing to both confirm IPT results and demonstrate the system can perform in an operational environment when operated by soldiers under potential battlefield conditions. Successful completion of IPT is contingent upon successful completion of any Government testing conducted. Failures during Government testing will be addressed per paragraph 3.4.3 above. The contractor shall incorporate corrective actions for Government test failures and retest as agreed on by the IPPT.

3.5 Integrated Logistics Support (ILS) and MANPRINT.

3.5.1 ILS Requirements. The contractor shall plan, manage, and execute an ILS program that assures that all ILS documentation tracks for the AN/PVS-7D and the AN/PVS-14 and shall dovetail, merge with, and maintain integrity of existing maintenance and support systems. In the event the offeror's proposal results in a change to the system that would affect the existing technical manual (TM), technical order (TO), repair parts and special tools list (RPSTL) or provisioning system, the offeror shall identify all such changes in his proposal. Current TMs and provisioning parts lists (PPL) will be provided to the contractor as Government furnished items (GFI), which will be used as guidance for content and format.

The contractor shall submit all changes to the Government logistics baseline to include any changes that effect form, fit, and function. Any changes after initial baseline submittal shall be submitted to the Government for approval. The Government, upon receipt of notification of proposed changes, will identify through the contracting officer the required contractual documentation for delivery and acceptance.

3.5.2 Maintenance Concept. The maintenance concept for the Night Vision Goggles, AN/PVS-7D shall be IAW TM 11-5855-262-10-2 and TM 11 5855-262-23&P-2. The maintenance concept for the Monocular Night Vision Device (MNVD), AN/PVS-14 shall be IAW TM 11-5855-306-10 and TM 11-5855-306-23&P.

3.5.2.1 Special Tools, Test Measurement And Diagnostic Equipment (TMDE). No special tools or test measurement and diagnostic equipment, excluding those presently in the maintenance concept for the AN/PVS-7D and AN/PVS-14 shall be required to repair any system.

3.5.3 Electronic Technical Manuals (ETM) Change Content. The contractor shall deliver change pages for joint service (U.S. Army, U.S. Marine Corps, U.S. Navy, and U.S. Air Force) Electronic Technical Manuals (ETMs) that are IAW the approved maintenance concept. The contractor shall submit proposed manual changes IAW CDRL A010, reference 3.5.6.3.1. The Government will maintain ownership of the manuals and will be responsible for their update and distribution.

3.5.3.1 TM Verification And Validation (V&V). The contractor shall schedule and conduct TM V&V at the contractor's facilities, if necessary. Contractor personnel performing operating and maintenance procedures on the equipment during validation shall be independent of the contractor's TM preparation activity.

The Government will perform 100 percent of the operating and maintenance procedures in each publication affected by the change pages. The contractor shall provide the following support to the verification:

Schedule sufficient time and materials (i.e. special and common tools, consumables, etc.) as needed for the Government to successfully complete its verification effort.

Record and maintain records during the verification process.

Maintain a master copy of each publication that shall be corrected during the verification process.

Assist the contracting activity, as requested, during the verification process.

Provide the contracting activity with a report of the corrective actions taken.

The contractor shall provide, as a minimum, at the verification site: ten copies of each validated TM to be verified; personnel necessary to document needed changes and resolve hardware issues; the subject equipment in each TM to be verified; and all tools, expendables, and test equipment required, according to the MAC and maintenance procedures, to perform all procedures affected by change pages in each TM.

3.5.3.2 Packing Of Operators' Technical Manuals (TMs) With Equipment. The contractor shall pack one paper copy of the Government furnished TM containing operators' instructions with each equipment package delivered under this contract.

3.5.4 Human Factors Engineering (HFE). If the contractor makes a design change to any procured system that affects the user interface or maintenance procedures, the contractor shall implement a human factors engineering program to assure that the Omnibus VIII system/device conforms to the requirements of the performance specifications. The HFE program shall focus on soldier portability, soldier/system interface, system set-up, tear-down, and maintenance operations. If implemented, the HFE program progress and current findings shall be presented at each IPPT review.

3.5.5 Provisioning Technical Documentation (PTD). If necessary, the contractor shall prepare and submit provisioning technical documentation (PTD) for incorporation into the Government database for national stock number (NSN) assignment based on the maintenance concept for each Omnibus VIII device. The contractor shall provide up to six (6) months for Government NSN assignment,

which commences upon Government receipt of the proper PTD and associated drawings. The PTD, drawings, and NSN assignment are required to be completed prior to TM or TM change page verification for each Omnibus VIII device.

3.5.5.1 Provisioning Requirements.

3.5.5.1.1 Provisioning Parts Lists (PPL). The contractor shall prepare and submit an updated PPL for the Omnibus VIII systems that have changes IAW CDRL A006.

3.5.5.1.2 Engineering Data For Provisioning. The contractor shall prepare and submit engineering data for all items on the PPL which are "PA" coded and do not have national stock numbers (NSNs) IAW CDRL A007.

3.5.6 Configuration Management (CM) Requirements.

3.5.6.1 Engineering Drawings. The contractor shall prepare and submit drawings IAW CDRL A008 for any new item not controlled by a Government approved baselined technical data package.

3.5.6.2 Physical Configuration Audit (PCA). A PCA shall be required when an IPT is required, or for any new item introduced into an existing system that affects form, fit, or function. The contractor shall prepare a PCA plan in contractor format and record the results of the audit in a report IAW CDRL A009.

3.5.6.3 Engineering And Configuration Control Documentation. For all requested configuration changes, the contractor shall prepare and submit engineering change proposals (ECPs), value engineering-change proposals (VECPs), requests for deviation (RFDs) and requests for waiver (RFWs) to the IPPT for concurrence as necessary IAW with CDRL A010.

3.5.7 Safety.

3.5.7.1 Safety Assessment Report (SAR). The contractor shall prepare a SAR, if the OMNI VIII systems or image intensifier designs are determined to contain significant differences in either the principle of operation, or the man-machine interface (e.g., system controls, man-machine interface). The Government will make the determination whether or not the system design contains any "significant" changes that could impact safety. Should the Government determine that a "significant" change has occurred the contractor shall prepare a safety assessment report IAW CDRL A011.

3.5.7.1.1 Safety Inspection/Verification. The contractor shall schedule sufficient time in the program schedule to permit a safety inspection of the system by the Government prior to Soldier involved technical or user testing and associated training, or start of contract deliveries. The inspections will be used to verify the information contained in the SAR. The contractor must allow sufficient time to correct any unresolved high or medium risk hazards prior to testing or delivery of the system to the Government.

3.5.7.1.2 Hazard Tracking. The contractor shall enter and track hazards using a Government provided electronic hazard tracking system. This Government provided system (VISOR software) will be provided to the contractor no later than 30 days after contract award. A hazard risk assessment code shall be assigned to each identified hazard using the matrix provided in the VISOR hazard tracking system.

APPENDIX A

Government test Conditions, Technical Interpretations, and Test Methods

1. Test Conditions. Operational performance requirements shall be verified by NVESD under the following test conditions:

a. The radiation source used for evaluation of photocathode sensitivity, EBI, luminance gain, and signal-to-noise shall be a tungsten-filament lamp operated at a color temperature of 2856 Kelvin (K) $\pm 50\text{K}$.

b. The radiation source used for evaluation of halo, resolution, and modulation transfer function (MTF) shall be a tungsten-filament lamp operated at a color temperature of 2700K to 2900K.

c. The photometer used for screen brightness measurements shall have a current NIST-traceable calibration.

d. The actual values of input illumination or radiation employed in operational performance tests shall be within ± 25 percent of that specified. These actual values shall be used in all computations used to determine compliance with the performance requirements. The actual input illumination employed for measurement of signal-to-noise ratio shall be within ± 10 percent of that specified.

e. Meters used for monitoring lamp current and voltage shall have an accuracy of ± 0.25 percent.

f. Tests shall be performed at room temperature (see 2.1).

g. Neutral density filters used in test equipment shall have transmission characteristics within ± 10 percent of the nominal filter transmission from 0.35 to 1.0 micrometer.

h. Input voltage on the assembly shall be 3.0 Vdc. The tolerance on the applied nominal input voltages shall be ± 0.05 Vdc.

2. Technical interpretations. The following technical interpretations shall be utilized in the performance of NVESD measurements:

2.1 Room Temperature. Room temperature is defined as $+23^{\circ}\text{C} +10^{\circ}\text{C}/-2^{\circ}\text{C}$.

2.2 Photocathode. A glass input window bonded to a gallium arsenide substrate is referred to as the photocathode.

2.3 Modulation Transfer Function (MTF). Modulation Transfer Function (MTF) is a measure of the degradation of an image as it appears at the output screen of the assembly, as correlated to the input image. MTF is normalized to 100 percent at a spatial frequency equal to or less than 0.25 line pairs per millimeter.

2.4 Limiting Resolution. Limiting resolution is defined as the smallest resolution pattern on the 1951 US Air Force Resolving Power Test Target for which the observer can distinguish three (3) black bars and the two (2) white areas between the black bars, for both the vertical and horizontal bar patterns.

2.5 Halo. Halo is defined as the circular area of brightness displayed on the assembly phosphor screen caused by a small bright-source input, with which it is concentric. Unless otherwise specified, "halo" shall refer to the bright circular area associated only with the photocathode-to-MCP proximity spacing.

2.6 Photocathode (or luminous) Sensitivity. The photocurrent (in microamperes), as corrected for leakage and dark current, divided by the actual input illumination (in lumens).

2.7 Photocathode Radiance Sensitivity. Total tube current (in milliamperes), as corrected for leakage and dark current) divided by the actual input radiation (in watts).

2.8 Equivalent Background Input (EBI). Equivalent Background Input (EBI) is the quotient of the residual output screen luminance in the absence of photocathode illumination, and the luminance gain of the image tube.

2.9 Luminance Gain. When the photocathode of the tube assembly is illuminated with input light uniformly distributed over the full useful diameter of the photocathode, the luminance gain is defined as the screen luminance (in footlamberts) divided by the actual input illumination (in footcandles), where screen luminance is measured such that the acceptance angle of the measuring instrument subtends a minimum 16mm-diameter area centered on the phosphor screen. The screen luminance value utilized in this computation shall be corrected by the background (i.e., no input) luminance value.

2.10 Signal-to-Noise Ratio (SNR). Signal-to-Noise Ratio (SNR) is a measure of the image intensifier tube's average output brightness or "signal" (corrected by the background luminance) divided by the standard deviation of the output brightness or "noise" (also corrected by the background luminance). These are measured with a specified input spot of light of 0.20mm diameter placed within a 1mm radius from the assembly's optical axis, with a spot illumination of 1×10^{-5} fc of a 2856K ± 50 K blackbody source of irradiance. The standard deviation of spot brightness is measured over a 10 Hz noise equivalent bandwidth.

2.11 Nominal Voltages. Unless otherwise specified, voltages applied to bare tubes shall be in accordance with the following nominal voltage settings:

- a. Photocathode (V_1): Not greater than 1200 Vdc below the microchannel plate (MCP) input.
- b. MCP input (V_2): 1000 ± 200 Vdc below MCP output.
- c. Phosphor screen (V_3): 5000 ± 1000 Vdc above MCP output.

3. Test Methods. NVESD test measurements shall be made in accordance with the following:

3.1 Photocathode Sensitivity. The photocathode sensitivity shall be measured prior to assembly of the tube and the power supply. Corrections for leakage and dark current shall be made. The luminous sensitivity shall be measured over a minimum 16mm-diameter circle with 0.001 lumen of tungsten lamp radiation, and with a photocathode voltage not greater than 1200 Vdc. The value of photocathode sensitivity utilized to determine specification compliance shall be measured at an applied voltage that is not more than 50

Vdc higher than the actual voltage utilized in the given tube assembly. The photocurrent (in microamperes) corrected for leakage/dark current, divided by the actual input (in lumens) is the 2856K photocathode sensitivity (in microamperes per lumen). With the same dc voltage applied as above, insert a 0.880 micrometer filter between the photocathode and the tungsten-filament source. A minimum 16mm-diameter area on the photocathode shall be illuminated with the filtered radiation at a level between 1×10^{-8} to 5×10^{-6} watt. Measure the total tube current and subtract the photocathode leakage/dark current. This photocurrent (in milliamperes), divided by the actual input radiation (in watts) is the photocathode radiance sensitivity at 0.880 ± 0.001 micrometers (in milliamperes per watt). The 0.880 ± 0.001 micrometer filter shall have the following characteristics:

- a. Far infrared blocking out to 4 micrometers and ultraviolet (UV) blocking out to 0.3 micrometer.
- b. Peak placement wavelength of 0.880 micrometer ± 0.001 micrometer.
- c. Bandwidth at the 10 percent points not greater than 0.015 micrometer.
- d. Minimum peak transmission of 50 percent.

3.1.1 Luminous and Radiance Sensitivity Test Procedure:

- Allow sufficient time for the test bench equipment to warm up and stabilize.
- Install the bare tube module in its appropriate fixture where the photocathode is centered on a 16mm aperture that is placed at the output of a tungsten-lamp source so that a uniform illumination of 2.67×10^{-1} fc will be incident on the photocathode.
- Connect the current meter in series with the tube to record tube current levels:
 1. Connect the high side of the meter to the microchannel plate (MCP) input.
 2. Connect the low side of the meter to the MCP output and screen.
 3. Connect V_1 to the photocathode.
- Adjust V_1 to obtain the required voltage and record the current displayed on the meter.
- Insert a 0.880 micrometer filter between the photocathode and the tungsten-filament lamp source and record the current displayed on the meter.
- Block the source and with no radiation applied to the photocathode record the current on the meter.
- Correct the luminous and radiant sensitivity current values by their respective leakage/dark current values.
- Divide the corrected luminous and radiant current values by the input illumination and input radiance, respectively, to arrive at the luminous sensitivity and the radiance sensitivity.

3.1.2 Luminous and Radiance Sensitivity Test Equipment:

- Power Supply, Optronics, Mdl 65ds
 - steady current source for the lamp.
- DMM, Keithly, Mdl 1975A
 - monitors the lamp current.
- Shunt, EPC corporation, Mdl HS 10A/1V

- used to help monitor the lamp current.
- Electrometer, Keithley, Mdl 617
 - monitors the sphere silicon detector.
- Light source, In-house design
 - provides a uniform 2856K spectral output at the required light levels.
- Power supply, Power Designs, Mdl AEC-315M1
 - provides photocathode voltage.

3.2. EBI and Saturation. With no light incident, apply the input voltage to the tube assembly and illuminate the photocathode of the operating assembly with an input light level of approximately 2×10^{-4} fc, uniformly distributed over the full useful diameter of the photocathode for a minimum of one (1) minute. Record the screen brightness in footlamberts as the saturation value. Remove the input illumination to the photocathode. With the operating potential applied to the intensifier and no radiation incident on the photocathode, hold for a period of not less than one (1) minute and no more than 15 minutes. At the end of this stabilizing period with no radiation incident on the photocathode, measure the screen brightness (in footlamberts) with the photometer, over a minimum 16mm-diameter circle centered on the assembly's optical axis. Divide this reading by the luminance gain as measured in paragraph 3.3, and multiply the result by $(1.076 \times 10^{-3}$ phot/fc).

3.3 Luminance Gain. Illuminate the photocathode of the operating tube assembly with an input light level uniformly distributed over the full useful diameter of the photocathode for each of the illumination conditions. For each illumination condition, measure the input current to the assembly and the screen luminance with the photometer. The acceptance angle of the photometer shall be no greater than two (2) degrees. Position the photometer so that the acceptance angle subtends a minimum 16mm-diameter area centered on the phosphor screen. Luminance gain is determined by dividing the screen luminance (in footlamberts) by the actual input illumination (in footcandles).

3.3.1 Reference Tubes for EBI, Saturation and Luminance Gain:

- Two (2) each reference tubes which have been demonstrated to be stable shall be kept in house and measured on each test bench prior to performing a series of image tube measurements. The reference tube data shall be recorded and charted. A measured result on the first tube with a delta of 3% or more from its charted average constitutes a potentially unstable condition. A second in-house reference tube shall be then measured to determine whether the drift originates in the test bench or the first tube. If the second image tube's measured result is also off by 3% or more from its charted average, the test bench may be out of calibration. A calibration check of the test bench shall now take place before image tubes can be tested on this test bench. Each reference tube shall be re-measured and the result shall be recorded and charted, and be within 3% of its average.

3.3.2 EBI, Saturation and Luminance Gain Test Procedure:

- Image tubes should soak in an environment of $21^{\circ}\text{C} + 0^{\circ}\text{C}$, -1°C for a minimum of 3 hours before performing EBI measurements.
- Allow the necessary time for the test bench equipment to warm up and stabilize.

- Set the photometer for a 1-degree aperture. Focus the eyepiece, and perform the photometer internal calibration, dark current and zero checks as described in its manual.
- Install the test bench reference tube in its appropriate fixture where the photocathode is centered at the output of a tungsten-lamp source so that an illumination of 2×10^{-4} fc is uniformly distributed over the full useful diameter of the photocathode.
- While looking through the eyepiece of the photometer adjust the photometer's distance and objective focus so that the photometer's measurement spot is between 16 and 17.5 mm in diameter, and is focused and centered upon the image tube's phosphor screen.
- Apply the required voltage to the image tube.
- Monitor the light source's silicon detector current on the electrometer to ensure that its reading is consistent with a pre-calibrated current value.
- Let the image tube soak for a minimum of 1 minute, and then record the saturation (i.e., Automatic Brightness Control level) reading for the image tube with the photometer.
- Block the source so that no radiation is incident upon the photocathode.
- Let the tube stabilize for not more than (15) minutes and then record the background reading for the image tube with the photometer. Determine the EBI by dividing this result by the luminance gain, and multiply the result by $(1.076 \times 10^{-3}$ phot/ftc).
- Adjust the source so that an input illumination of 2×10^{-6} fc is uniformly distributed over the full useful diameter of the photocathode.
- Record the photometer reading for the image tube.
- Luminance gain is determined by dividing the screen luminance (in footlamberts) by the actual input illumination (in footcandles).

3.3.3 EBI, Saturation and Luminance Gain Test Bench Equipment:

- Power Supply, Optronics, Mdl 65ds
 - steady current source for the lamp.
- DMM, Keithly, Mdl 1975A
 - monitors the lamp current.
- Shunt, EPC corporation, Mdl HS 10A/1V
 - used to help monitor the lamp current.
- Electrometer, Keithley, Mdl 617
 - monitors the sphere silicon detector.
- Light source, Optronics, Mdl 420
 - provides a uniform 2856K spectral output at the required light levels.
- Power supply, Precision Power Source, Mdl 2005
 - supplies the 3.0 vdc for the image tube.
- Photometer, Photo Research, Mdl 1980 with a WFL10 lens
 - measures the image tube's output in FL.
- Thermal chamber, Thermotron, Mdl SM-1-0-3200
 - incubates the image tubes before EBI measurements.
- Image tube fixture, fabricated in-house

- holds the image tube in its proper orientation to ensure that precise and accurate measurements can be performed.

3.4.1 Halo. Illuminate the photocathode of the assembly through an aperture followed by an AN/PVS-14 objective lens or equivalent. The aperture shall be such as to produce a spot of light 0.350 ± 0.02 mm in diameter on the photocathode of the assembly, at a location within a 2.0mm-diameter circle centered on the assembly optical axis. The illumination in that spot shall not be less than 5×10^{-4} fc, nor greater than 8×10^{-2} fc. The illumination incident on the photocathode of the assembly in the region outside the 0.350mm spot shall not exceed 1/500 of the spot illumination. Measure the diameter of the halo (see 2.5) formed on the output image screen with a 10-15x measuring magnifier. Repeat the measurement three (3) times and compute an average diameter for determination of specification compliance.

3.4.1.1 Halo Test Procedure:

- Allow sufficient time for the test bench equipment to warm up and stabilize.
- Install a pinhole aperture at the output port of a uniform light source.
- Axially align and position an AN/PVS-14 objective lens or equivalent such that the input side of the lens is looking towards the pinhole aperture.
- Adjust the position of the objective lens such that an illuminated spot of 0.35 ± 0.02 mm can be obtained and centered on the output side of the lens. Lock the lens in this position.
- Position a 10-15x viewing device incorporating an eyepiece crosshair such that the crosshair is axially aligned and focused upon the real image of the spot from the lens.
- Measure the diameter of this illuminated spot:
 - The diameter (0.35 ± 0.02 mm) of the spot projected on the image tube's photocathode shall be determined by aligning one side of the vertical cross hair in the eyepiece with one edge of the input spot at its widest point, and zero this position on the digital readout device. Move the vertical crosshair straight across the illuminated spot such that the opposite side of the vertical crosshair is aligned on this edge of illuminated spot at its widest point. Record the input spot diameter (mm) from the digital readout.
- Install the image tube in an appropriate fixture such that the image tube is axially aligned and centered, such that the lens can focus a 0.35 ± 0.02 mm spot on the photocathode.
- Position the viewing device such that its eyepiece crosshair can be axially aligned, centered and focused upon the tube's phosphor screen.
- Supply the required operational voltage to the image tube.
- While looking through the viewing device, adjust the pinhole illumination level, the focus of the input-spacing halo image on the phosphor screen, and the focus of the viewing device to obtain the clearest image possible of the halo.
- Re-check the alignment and centering of the viewing device, and the focus of the pinhole on the phosphor screen, to ensure the sharpest and clearest image of the pinhole and input-spacing halo are achieved.

- Measure the input spacing halo diameter (mm) as follows:
 - The diameter of the image tube's input-spacing halo shall be determined by aligning the vertical cross hair in the eyepiece on one edge of the image tube's input-spacing halo at its widest point. The edge of the image tube's halo is subjectively determined by the tester, in accordance with his individual criteria. Zero this position on the digital readout device. Move the vertical crosshair straight across the diameter of the halo to the other edge of the halo and align the vertical crosshair at the halo's widest point. Record the position on the digital readout device for halo-diameter measurement result number 1. Repeat this same procedure two more times, and utilize the average of the three results for the image tube's reported halo diameter.

3.4.1.2 Halo Test Bench Equipment:

- Power supply, Optronics, Mdl 65ds
 - steady current source for lamp.
- Light source, Optronics, Mdl 420
 - provides a uniform 2856K illumination at the required light levels.
- Power supply, Precision Power Source, Mdl 2005
 - supplies the required image tube voltage.
- Traveling microscope, Gaertner, 10-28x magnification w/eyepiece cross hair
 - positions and focuses on the tube's phosphor screen.
- Digital dial indicator, Mitutoyo Corp., Mdl ID-C150tb
 - measures and records the halo diameter (mm).

3.4.2 Halo Variation. Measure and compute the halo at a minimum of three locations in the tube's useful area. These locations shall lie between 5-7mm from the tube's optical axis, and shall be rotationally uniform around the optical axis (e.g., 0-deg, 120-deg, 240-deg for three locations). The halo variation is defined as the difference between maximum halo and the minimum halo computed at these locations.

3.4.2.1 Halo Variation Test Procedure:

The procedures for a halo measurement as described in (3.4.1.1 Halo) shall also be used for measuring the halo diameter in this test. The image tube shall be repositioned such that the input spot exhibits a halo at three locations (0-deg, 120-deg, and 240-deg) on the phosphor screen that lie between 5-7 mm from the tube's optical axis. At each halo location the viewing device (as described above) shall be repositioned to accurately measure the diameter of each halo on the phosphor screen as described above.

3.4.2.2 Halo Variation Test Bench Equipment:

The test bench equipment used to perform halo diameter measurements shall also be used to perform measurements of halo variation.

3.5 Signal-to-Noise Ratio (SNR). Image a circular spot no larger than 0.20 ± 0.01 mm diameter onto the photocathode within a 2.0mm diameter circle centered on the assembly's optical axis. Tube dark spots may be avoided for spot placement. Any spot movement outside the 2.0mm circle shall require that two (2) separate locations, which are diametrically opposed relative to the optical axis and which are within a 5.6mm-diameter circle centered on the

optical axis, be measured and averaged to determine signal-to-noise ratio. The circular spot shall illuminate the photocathode at a level no greater than 1×10^{-5} fc. Focus the signal which is emergent from the assembly onto a 0.20 - 0.70mm diameter measurement pinhole. Align to obtain a maximum signal through the pinhole. Measure the light passing through the pinhole with a low-dark-current photomultiplier tube, EMR Model 541E, or equivalent. After suitable amplification, pass the signal to a signal-to-noise measurement set and measure the dc content and the rms value of the signal over an electronic bandwidth of 10 Hz. The signal-to-noise (S/N) ratio is the ratio of the dc signal to the rms noise. Perform this measurement with the source spot illuminated for no less than 200sec for the signal value and with same setup and no input for a minimum of 20 sec for the background value. The SNR can then be computed as follows:

$$S/N = (S_o - S_{bkd}) / [K (N_o^2 - N_{bkd}^2)^{1/2}]$$

where:

S = dc signal
 N = rms noise
 S_o = signal output from S/N tester
 S_{bkd} = background signal from S/N tester with no input to assembly
 N_o = noise output from S/N tester rms meter
 N_{bkd} = background noise from S/N tester rms meter with no input to assembly
 K = correlation factor to obtain a signal-to-noise ratio over an equivalent bandwidth of 10 Hz independent of the assembly's frequency response; K = 1.15 for a P-43 phosphor.

3.5.1 Reference Tubes for Signal-to-Noise Ratio:

Two (2) each reference tubes which have been demonstrated to be stable shall be kept in house and measured on each test bench prior to performing a series of image tube measurements. The reference tube data shall be recorded and charted. A measured result on the first tube with a delta of 3% or more from its charted average constitutes a potentially unstable condition. A second in-house reference tube shall be then measured to determine whether the drift originates in the test bench or the first tube. If the second image tube's measured result is also off by 3% or more from its charted average, the test bench may be out of calibration. A calibration check of the test bench shall now take place before image tubes can be tested on this test bench. Each reference tube shall be re-measured and the result shall be recorded and charted, and be within 3% of its average.

3.5.2 Signal-to-Noise Ratio Test Procedure:

- Allow sufficient time for the test bench equipment to warm up and stabilize.
- Install a pinhole and an AN/PVS-14 lens or equivalent such that a 0.20mm spot at an illumination not greater than 1×10^{-5} fc is projected on the image tube's photocathode.
- Install the image tube in an appropriate fixture where the photocathode is centered on the 0.20mm spot and shrouded to prevent exposure to stray light.
- Turn off the room lights and block the light from any items or equipment that may interfere with the SNR measurements.

- Monitor the light source's silicon detector to ensure that its reading is consistent with a pre-calibrated current value that ensures a light level of 1×10^{-5} fc is illuminating the 0.20 mm spot.
- Apply the required operational voltage to the image tube.
- Using an eye loop and the image tube fixture, focus the 0.20mm spot as displayed on the phosphor screen.
- Focus the phosphor screen spot onto a low-dark current photomultiplier tube (PMT), EMR Mdl 541E or equivalent, equipped with an input objective lens and a 0.20-0.70mm diameter measurement aperture.
- Shroud the image tube's output and the PMT input to prevent any stray light from entering the PMT.
- Monitor the oscilloscope signal level while adjusting the PMT high voltage to where the voltage spikes resulting from the phosphor scintillations are clearly visible. The signal voltage level with the scintillation spikes should be adjusted to a pre-calibrated level necessary for accurately measuring an image tube's SNR value.
- Focus and align the PMT for the maximum signal.
- Begin recording the dc content and rms value of the signal over an electronic bandwidth of 10 Hz with the data acquisition computer.
- Record the signal for 200 seconds.
- Shutter the source such that no radiation is incident on the photocathode.
- Record the dark signal for 20 seconds.
- Compute the signal-to-noise ratio as defined above.

3.5.3 Signal-to-Noise Ratio Test Bench Equipment:

- Power supply, Optronics, Mdl 65ds
 - steady current source for the tungsten-halogen bulb.
- DMM, Keithley, Mdl 1976A
 - monitors the halogen bulb current.
- Shunt, EPC corp. Mdl HS 10A/1v
 - monitors the halogen bulb current.
- Electrometer, Keithley, Mdl 617
 - monitors the light-source silicon detector.
- Power supply, Laboratory Photometer, Mdl 110
 - provides the high voltage power to the PMT.
- Power supply, Precision Power Source, Mdl 2005
 - provides the required image tube voltage.
- Power supply, HP, Mdl 6237B
 - provides the voltage for the PMT output preamp.
- PMT, Pacific Photometric Instruments, EMI Mdl 62-9502S
 - amplifies the low signal levels from the tube.
- Light Source, Optronics, Mdl 420
 - supplies a uniform 2856K spectral output at the required light level of 1×10^{-5} fc.
- Data acquisition module, National Instruments, Mdl USB-6008
 - provides the dc content of the signal to a computer.

- Tough book computer, Panasonic, Mdl CF29
 - captures, calculates, and stores the SNR.

3.6 Center Resolution. Perform this test using the following: a projection system having an f-number not greater than $f/1.4$ to project the test pattern, a resolving power target having black bars on a white background (1951 US Air Force Resolving Power Test Target), and a 20-30x magnifier. The resolving power test target shall be focused onto the photocathode such that the center of the target is aligned within 2mm of the assembly's optical axis. The input radiation shall be adjusted for best image contrast. The image of the resolving power test target formed on the screen of the assembly shall be observed for limiting resolution (see 2.4).

3.6.1 Observer Criteria for Center Resolution:

Center resolution is a subjective measurement and the result will usually vary somewhat from person to person. A maximum difference of one element between trained observers shall be maintained. The criteria an observer uses to determine whether he/she can see the three black bars and the two intervening white spaces for both the vertical and horizontal bars shall be consistent for all measurements. The objective is to determine the smallest group and element that can be discerned by the observer.

3.6.2 Center Resolution Test Procedure:

- Allow sufficient time for the test bench equipment to warm up and stabilize.
- Place an image tube in the appropriate fixture such that the photocathode is axially aligned, and the projected target pattern is centered on the photocathode.
- Focus the target pattern image onto the tube's photocathode.
- Turn off the room lights and block any stray light that may interfere with the measurements.
- Adjust the light source to produce an output sufficiently low that it will not burn the image tube when powered up.
- Power up the image tube.
- Position the viewing device (stereo microscope or monocular unit) with a 26x or greater magnification such that it is axially aligned and centered on the phosphor screen.
- Looking through the viewing device, adjust the light level to optimize contrast.
- Align the image tube to obtain best focus of the projected pattern on the photocathode.
- Focus the viewing device to obtain best focus of the pattern on the phosphor screen.
- It may be necessary to readjust the light level and refocus the image tube's input and the viewing device to obtain the best image possible of the projected pattern on the phosphor screen.
- Using the descriptions above, record the number for the smallest group and element that can be seen.
- It may be necessary to slightly adjust the image tube position if a cosmetic defect is interfering with the reading.

- Record the result and calculate the image tube's resolution as determined on the particular test bench.

3.6.3 Center Resolution Test Bench Equipment:

- Power supply, Optronics, Mdl 65ds
 - steady current source for lamp.
- Light source, Optronics, Mdl 420
 - provides a uniform 2856K illumination at the required light levels.
- Power supply, Precision Power Source, Mdl 2005
 - supplies the required image tube voltage.
- Traveling microscope, Gaertner, 10-28x magnification w/eyepiece cross hair
 - positions and focuses on the tube's phosphor screen.
- Digital dial indicator, Mitutoyo Corp. Mdl ID-C150tb
 - measures and records the halo diameter (mm).

3.7 Modulation Transfer Function (MTF). Equipment used to measure the MTF shall satisfy the following conditions:

- a. A sine-wave analyzer capable of, but not limited to, direct readout for spatial frequencies within one line pair of the following: 2.5 lp/mm, 7.5 lp/mm, 15 lp/mm, and 25 lp/mm.
- b. The limiting aperture of the test pattern shall be a minimum of 4.0mm in width referred to the photocathode of the assembly.
- c. The test system's calibration frequency shall be 0.25 lp/mm or less.
- d. The test system's MTF shall be not less than 95 percent at a spatial frequency of 2.5lp/mm.
- e. The input illumination measured at the assembly's photocathode shall not be greater than 8×10^{-4} fc.
- f. Assembly MTF is determined by dividing the MTF of the measuring system with the assembly in place by the MTF of the measuring system without the assembly.

3.7.1 MTF Test Procedure:

- Allow sufficient time for the test bench equipment to warm up and stabilize.
- Install an image tube in the fixture in the MTF test bench.
- Run the system program and follow prompts.
- Once the system has finished record and save the data.

3.7.2 MTF Test Bench Equipment:

- AIMS II as manufactured by the Penn State Electro-Optics Center.

CLAUSES INCORPORATED BY FULL TEXT

AMCAC 52.0204-4001, IDENTIFICATION OF OZONE DEPLETING SUBSTANCES (OCT 1999)

a. The following required Class I Ozone Depleting Substances (ODS) have been identified and approved for use under performance of any resultant contract.

None.

(List any approved ODS requirements): _____

b. If during performance of the contract, an approved Class I ODS is discovered, the contractor is encouraged to notify the contracting officer immediately.

c. The ODS restrictions apply to subcontracts as well.

Section D - Packaging and Marking

CLAUSES INCORPORATED BY FULL TEXT

AMCAC 52.0247-4002, MARKING AND CONSIGNMENT INSTRUCTIONS (AUG 1999)

Marking and consignment instructions for military shipments shall conform to the current issue of MIL-STD-129 (Military Standard Marking for Shipment and Storage).

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Origin	Government	Origin	Government
0002	Origin	Government	Origin	Government
0003	Origin	Government	Origin	Government
0004	Origin	Government	Origin	Government
0005	Origin	Government	Origin	Government
0006	Origin	Government	Origin	Government
0007	Origin	Government	Origin	Government
0008	Origin	Government	Origin	Government
0009	Origin	Government	Origin	Government
0010	Origin	Government	Origin	Government
0011	Origin	Government	Origin	Government
0012	Origin	Government	Origin	Government
0013	Origin	Government	Origin	Government
0014	Destination	Government	Destination	Government

CLAUSES INCORPORATED BY REFERENCE

52.246-2	Inspection Of Supplies--Fixed Price	AUG 1996
52.246-15	Certificate of Conformance	APR 1984
52.246-16	Responsibility For Supplies	APR 1984
252.246-7000	Material Inspection And Receiving Report	MAR 2008

INSPECTION/ACCEPTANCE

Inspection and Acceptance will be handled by:

DCMA MANASSAS – S2404A
 Phone Number: 703-530-3101
 Fax Number: 703-530-3102
 E-Mail: DCMA.VIRGINIA@DCMA.MIL
 Address: 10500 BATTLEVIEW PARKWAY
 SUITE 200
 MANASSAS, VA 20109-2342

Delivery, Conditional Acceptance, and Failure of Items Subject to Initial Production Test (IPT) and Conformance Inspections (CI)

- Delivery of contract items which are subject to Initial Production Test (IPT) or periodic Conformance Inspection (CI) shall not be made until successful completion of the inspections as outlined in the QVP, and compliance with the applicable performance specification, except as provided below. The term "periodic CI" refers to all CI testing accomplished on a sample basis to include performance, environmental, and reliability testing, as opposed to the 100% CI acceptance test (AT) and Environmental Stress Screening (ESS).
- When an IPT is required, no contract items shall be delivered until the item has successfully completed the IPT per the QVP, and the IPPT has concurred on the IPT Report.
- After successful completion of the IPT or initial periodic CI, delivery to the Government of lots between those where periodic CI is required is authorized, but acceptance is conditional pending the results of the subsequent CI. Delivery of product related to the lot that has been selected for the periodic CI shall not be delivered to the Government until all tests associated with the lot have been successfully completed. Every unit shall pass AT prior to delivery.
- In the event of a CI lot failure, the contractor shall perform a failure analysis and report each failure as required in the statement of work. Government acceptance is discontinued until satisfactory resolution of the failure, and concurrence by the IPPT on the failed item analysis report (FIAR); release under any other conditions is subject to approval of the contracting officer. The Government shall have the right to revoke acceptance of any and all items that may contain the root cause failure mode and to require the contractor to replace or correct at his expense any and all affected units. If corrective action is authorized, any such action may be performed by the contractor at destination, or the affected items may be returned to the contractor subject to approval of the contracting officer, with transportation costs to and from destination at the contractor's expense.
- When shipment has been made of items represented by samples which have failed a periodic CI, the contractor shall notify the contracting officer in writing, with a copy to the ACO and PM representative; notification shall indicate the nature of the failure and shipments made, to include consignees, date of shipments, carriers, waybill numbers, serial numbers of all affected items and total quantity. The government reserves the right to return the shipments or any portion thereof to the contractor at contractor's expense.
- The contractor shall provide the cognizant Government quality assurance representative (QAR) with written notice of the time and place for each periodic CI. This notice shall be provided at least two (2) working days prior to start of each CI if the QAR is in residence at the contractor's facility or seven (7) working days prior to start of each CI if the QAR is not in residence at the contractor's facility. The contractor shall provide within forty-eight (48) hours of completion of each CI, written notification to the QAR the time and date of completion, and whether or not the inspections have been passed.
- Periodic CI, to include approval and Government acceptance of any associated failure reports, shall be completed within sixty (60) days of sample selection for periodic environmental and performance CI, and within one hundred and twenty (120) days of sample selection for reliability CI. Failure to complete CI within these time periods shall be grounds for revoking acceptance of all units accepted since the last successful periodic CI and shall be deemed a failure to make delivery within the meaning of the Default clause of this contract and the contract shall be subject to termination for default.
- In the event of a CI (Reliability) lot failure, the Government may, with contractor concurrence, agree to accept consideration in lieu of correcting units that have already been delivered to the Government. The following calculation shall be used to determine the amount of consideration. The number of units in the below calculation shall be all units delivered since the last successful CI (Reliability) test, or any other

number of units as agreed to by the Government. For image tubes, the hours used on each tube in calculating $MTTF_{\text{demonstrated}}$ shall not exceed the required $MTTF$.

$$\text{Damages} = \frac{(MTTF_{\text{required}} - MTTF_{\text{demonstrated}})}{MTBF_{\text{required}}} * \text{\#units} * \text{cost per unit}$$

The rights and remedies of the Government provided in this clause shall not be exclusive, and are in addition to any other rights and remedies provided by law under this contract.

Section F - Deliveries or Performance

CLAUSES INCORPORATED BY REFERENCE

52.211-17	Delivery of Excess Quantities	SEP 1989
52.242-15	Stop-Work Order	AUG 1989
52.242-17	Government Delay Of Work	APR 1984
52.247-34	F.O.B. Destination	NOV 1991
52.247-62	Specific Quantities Unknown	APR 1984

CLAUSES INCORPORATED BY FULL TEXT

52.211-11 LIQUIDATED DAMAGES--SUPPLIES, SERVICES, OR RESEARCH AND DEVELOPMENT (SEP 2000)

(a) If the Contractor fails to deliver the supplies or perform the services within the time specified in this contract, the Contractor shall, in place of actual damages, pay to the Government liquidated damages of an amount to be determined by the Government.

(b) If the Government terminates this contract in whole or in part under the Default--Fixed-Price Supply and Service clause, the Contractor is liable for liquidated damages accruing until the Government reasonably obtains delivery or performance of similar supplies or services. These liquidated damages are in addition to excess costs of repurchase under the Termination clause.

(c) The Contractor will not be charged with liquidated damages when the delay in delivery or performance is beyond the control and without the fault or negligence of the Contractor as defined in the Default--Fixed-Price Supply and Service clause in this contract.

(End of clause)

Section G - Contract Administration Data

POST AWARD CONFERENCE

The contractor shall schedule a PAC to be held NLT 30 days after issuance of a delivery order. The purpose of the PAC is to ensure mutual understanding of the order. The location of this meeting will be at the contractor's facility and the conference shall be in accordance with FAR 42.503.

GOVERNMENT FURNISHED PROPERTY**GOVERNMENT-FURNISHED PROPERTY**

1. The Government will provide the following item(s) of Government property to the Contractor for use in the performance of this contract. This property shall be used and maintained by the Contractor in accordance with the provisions of the "Government Property" FAR clause contained elsewhere in the contract.

NATIONAL UNIT GROSS APPLIES

STOCK NUMBER DESCRIPTION ALLOWANCE TO SLIN

5855-01-457-2953 al Helmet Mount

2. Delivery of Government furnished property. Government furnished property (GFP) will be delivered to the "producing facility" as identified by the contractor in the "Place of Performance and Shipping Point" provision in Section G of the schedule, unless herein stated otherwise by the contractor. The GFP will be delivered to the contractor as follows:

a. Production Items. In the event that GFE is not available, contractor is authorized to ship in place (bonded stock) on a DD250 pending receipt of GFE. Upon receipt of GFE, contractor will incorporate one each helmet mount with each Night Vision Goggle (NVG) ship to their designated DODAAC's on a DD1149 in accordance with contract requirements.

b. The Government retains the option to ship the property in larger quantities or at earlier times when such action is in the interest of the Government.

c. If the GFP is not received in accordance with the above schedule, the contractor shall notify the Procuring Contracting Officer (PCO) within seven days after the date for receipt established by the above schedule.

3. Contractor inspection of GFP. The contractor shall inspect all GFP within 30 calendar days of its receipt. If the inspection reveals GFP damages or discrepancies, the contractor shall:

- a. Complete the appropriate form:

SF 364 - Report of Discrepancy. Used to report material discrepancies including condition of material, incorrect supply documentation, misdirected material, overages and/or shortages, duplicate shipments, packaging discrepancies, item technical data markings and wrong items.

SF 361 Discrepancy in Shipment Report. Use to report any transportation discrepancy in shipment throughout the Defense Transportation System (DTS) and shipment within CONUS moved by commercial carrier (lost or damaged).

SF 368 - Quality Deficiency Report. Used to report defects or nonconforming conditions which limit or prohibit the product from fulfilling its intended purpose, including deficiencies in design, specification, material, manufacturing and workmanship.

- b. Obtain certification from the designated Government Quality Assurance Representative (GQAR).

- c. Forward the completed, certified form within seven calendar days as follows:

FORM DISTRIBUTION

SF 364 SFCA-SR-WS - 2 copies

PCO - 1 Copy

SF 361 SFCA-SR-WS - 2 copies

PCO - 1 Copy

SF 368 SFCA-SR-WS - 1 copy

ACO - 1 Copy (ACO information to be provided at time of award)

- d. When the contractor considers any damage attributable to the carrier, the contractor will arrange for and document a confirming inspection by the carrier's representative.

4. Repackaging and Repacking of GFP. The contractor is responsible for any repackaging and repacking of GFP required to comply with applicable specifications. When the GFP is received completely packed for reshipment in the same container, it will not be opened by the contractor for inspection. The contractor shall advise the cognizant GQAR of any questions concerning the quantity, quality, or condition of such property.

5. Shipment of GFP. Within 30 calendar days after the contractor receives the applicable shipping instructions from the PCO (or designated property representative), the contractor shall submit an original and three copies of DD Form 1659, Application for U.S. Government Shipping Documentation. Instructions to the ACO.

6. Disposition of GFP. As soon as the GFP is no longer required, but not later than completion of all scheduled contract deliveries or termination of this contract, the contractor shall return to the Government all GFP not utilized in performance of this contract or otherwise disposed of by the PCO's direction.

a. The contractor will notify the cognizant GQAR to arrange for inspection of the property before it is packed for return to the Government.

b. The contractor shall prepare the property for delivery LOP/LPK C in accordance with ASTM D 3951-95 and shall ensure that all items comply with all common carrier rules and regulations. The contractor shall deliver the property return F.O.B Origin in accordance with the applicable shipping/disposition instructions received from the PCO.

c. The property shall be delivered to the Government utilizing DD Form 1149 citing the same document under which it was received. The contractor shall forward a copy of DD Form 1149 to the addressee listed below:

PM-SMS

(ATTN: SFAE-SDR-SSL-SMS G. Keller)

10170 Beach Road, Building 325

Fort Belvoir, VA 22060-5820

CLAUSES INCORPORATED BY REFERENCE

52.245-1

Government Property

JUN 2007

CLAUSES INCORPORATED BY FULL TEXT

WIDE AREA WORKFLOW (WAWF) INFORMATION AND INSTRUCTION (MAY 2009)

As prescribed in DFARS 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports, contractors shall submit payment requests and receiving reports using WAWF. WAWF is a secure web-based system for electronic invoicing, receipt and acceptance located at <https://wawf.eb.mil>. Contractors can register to use WAEF on the Internet for no charge and ensure an electronic business point of contact (POC) is designated in the Central Contractor Registration site at <http://www.ccr.gov> within ten (10) calendar days after award. WAWF training is provided at <http://www.wawftraining.com/>. This application allows contractor submittal and tracking of invoices and receipt/acceptance documents. Questions relating to system setup and training can be directed to the associated site help desks and the Army WAWF Help Desk which provides support for all users as follows. Questions can also be sent via email to: cco-ec-army-wawf-helpdesk@dfas.mil:

Hours of Operation: Monday – Friday, 0630-1800 EDT

Phone Numbers: Toll Free: 1-877-2232-9293

Comm: 1-317-510-0625 or DSN: 699-0625

Important Information:

Please submit your invoice/receiving report in WAWF when you ship your items. Otherwise, when your delivery arrives, there is nothing to receive your shipment against if the information has not been entered in WAWF.

Include the Purchase Request (PR) number in the Line Item Description. This is found under the Line Item Description on this contract/order.

WAWF is the preferred method to electronically process vendor request for payment. It allows vendors to submit and track invoices and receipt/acceptance documents electronically.

WAWF Instructions:

Questions concerning payments should be directed to the Defense Finance and Accounting Service (DFAS):

DFAS COLUMBUS - HQ0304

DFAS JAIQBAC CO

ATTN: ST LOUIS PO BOX 182307

COLUMBUS OH 43218-2307

1-800-756-4571 ; Option 2, option 2

(216) 522-6998

Note: Vendor, please have your purchase/contract/delivery order number(s) ready when calling about payments.

The following Codes and information will be required to assure successful flow of WAWF comments:

TYPE OF DOCUMENT (*Check the appropriate block*)

- Commercial Item Financing
- Construction Invoice (*Contractor Only*)
- Invoice (*Contractor Only*)
- Invoice and Receiving Report Combo (Supplies) - OR - Supplies and FFP Services (*check one*)
- Invoice as 2-in-1 (Services Only)
- Performance Based Payment (*Government Only*)
- Progress Payment (*Government Only*)
- Cost Voucher (All Cost Reimbursable or T&M)(*Government Only*)
- Receiving Report (*Government Only*)
- Receiving Report With Unique Identification (UID) Data (*Government Only*)
 UID is a new globally unique "art identifier" containing data elements used to track DoD parts
 Through their life cycle.
- Summary Cost Voucher (*Government Only*)

Cage Code: 13567 – ITT Corporation

Issue By DoDAAC: W91CRB

Admin By DoDAAC: S2404A - DCMA MANASSAS

Inspect By DoDAAC: S2404A - DCMA MANASSAS

Accept By DoDAAC: S2404A - DCMA MANASSAS

Accept Reviewer/Approver DoDAAC: N/A

Ship to DoDAAC: To be determined on each individual order

Local Processing Office DoDAAC: N/A

Payment Office Fiscal Station Code: SEE BLOCK 25 ON CONTRACT.

Email Addresses for Points of Contact (when determined):

Inspector: DCMA.VIRGINIA@DCMA.MIL
 Acceptor: DCMA.VIRGINIA@DCMA.MIL

Receiving Office: DCMA.VIRGINIA@DCMA.MIL
Contract Administrator: DCMA.VIRGINIA@DCMA.MIL
Contracting Officer: tyrone.m.knight@us.army.mil
Addition POC: tyrone.m.knight@us.army.mil

AMCAC 52.0242-4001, INSTRUCTIONS TO PAYING OFFICE AND ADMINISTRATIVE CONTRACTING
OFFICE (AUG 1999)

a. The Contracting Office representative is:

Name: Ms. Simona Powell

Organization Code: CCRD-AP-BA

Telephone Area Code and Number: 410.306.1392

DSN: 306.1392

FAX: 410.306.3838

Email: simona.powell@us.army.mil

b. Payment to the contractor shall be made in accordance with FAR Subpart 32.11, Electronic Funds Transfer.

c. Paying Office Information:

Telephone Inquiries: See WAWF clause

FAX: See WAWF clause

Section H - Special Contract Requirements

ON-RAMP PROCESS

H.1 ON-RAMP PROCEDURES

The Government reserves the right to determine whether it would be appropriate to announce a new competition for the purpose of adding additional Indefinite Delivery/Indefinite Quantity (ID/IQ) holders. Periodically, the government will assess the quality of performance by each ID/IQ holder, the number, value and volume of work assigned to each holder and amount of competition achieved. In addition, the government will assess the internal transaction cost for issuing each order, the amount of small business participation, whether revisions are needed to the SOW, if additional ordering offices need to be established, and if the ceiling amount of the contract needs to be revised. Based on these criteria, if it is in the best interest of the Government, the KO may announce a new competition to add ID/IQ holders. The Government reserves the right to limit the addition of ID/IQ holders to only small business concerns and/or vendors under a particular socio-economic program.

Section I - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	APR 1984
52.203-6	Restrictions On Subcontractor Sales To The Government	SEP 2006
52.203-7	Anti-Kickback Procedures	JUL 1995
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity	JAN 1997
52.203-10	Price Or Fee Adjustment For Illegal Or Improper Activity	JAN 1997
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	SEP 2007
52.203-13	Contractor Code of Business Ethics and Conduct	APR 2010
52.204-2	Security Requirements	AUG 1996
52.204-4	Printed or Copied Double-Sided on Recycled Paper	AUG 2000
52.204-7	Central Contractor Registration	APR 2008
52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	SEP 2006
52.211-5	Material Requirements	AUG 2000
52.211-15	Defense Priority And Allocation Requirements	APR 2008
52.215-2	Audit and Records--Negotiation	MAR 2009
52.215-8	Order of Precedence--Uniform Contract Format	OCT 1997
52.215-12	Subcontractor Cost or Pricing Data	OCT 1997
52.215-14	Integrity of Unit Prices	OCT 1997
52.215-19	Notification of Ownership Changes	OCT 1997
52.215-21	Requirements for Cost or Pricing Data or Information Other Than Cost or Pricing Data--Modifications	OCT 1997
52.216-22	Indefinite Quantity	OCT 1995
52.219-8	Utilization of Small Business Concerns	MAY 2004
52.219-14	Limitations On Subcontracting	DEC 1996
52.222-3	Convict Labor	JUN 2003
52.222-4	Contract Work Hours and Safety Standards Act - Overtime Compensation	JUL 2005
52.222-19	Child Labor -- Cooperation with Authorities and Remedies	AUG 2009
52.222-20	Walsh-Healey Public Contracts Act	DEC 1996
52.222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	MAR 2007
52.222-35	Equal Opportunity For Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans	SEP 2006
52.222-36	Affirmative Action For Workers With Disabilities	JUN 1998
52.222-37	Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, and Other Eligible Veterans	SEP 2006
52.222-50	Combating Trafficking in Persons	FEB 2009
52.223-6	Drug-Free Workplace	MAY 2001
52.223-14	Toxic Chemical Release Reporting	AUG 2003
52.225-13	Restrictions on Certain Foreign Purchases	JUN 2008
52.227-1	Authorization and Consent	DEC 2007
52.227-2	Notice And Assistance Regarding Patent And Copyright Infringement	DEC 2007
52.229-1	State and Local Taxes	APR 1984
52.229-3	Federal, State And Local Taxes	APR 2003

52.229-4	Federal, State, And Local Taxes (State and Local Adjustments)	APR 2003
52.230-2	Cost Accounting Standards	OCT 2008
52.230-6	Administration of Cost Accounting Standards	MAR 2008
52.232-1	Payments	APR 1984
52.232-8	Discounts For Prompt Payment	FEB 2002
52.232-9	Limitation On Withholding Of Payments	APR 1984
52.232-11	Extras	APR 1984
52.232-17	Interest	OCT 2008
52.232-23 Alt I	Assignment of Claims (Jan 1986) - Alternate I	APR 1984
52.232-25 Alt I	Prompt Payment (Oct 2008) Alternate I	FEB 2002
52.232-33	Payment by Electronic Funds Transfer--Central Contractor Registration	OCT 2003
52.233-1	Disputes	JUL 2002
52.233-3	Protest After Award	AUG 1996
52.233-4	Applicable Law for Breach of Contract Claim	OCT 2004
52.242-3	Penalties for Unallowable Costs	MAY 2001
52.242-13	Bankruptcy	JUL 1995
52.242-15	Stop-Work Order	AUG 1989
52.243-1	Changes--Fixed Price	AUG 1987
52.244-6	Subcontracts for Commercial Items	APR 2010
52.246-23	Limitation Of Liability	FEB 1997
52.246-25	Limitation Of Liability--Services	FEB 1997
52.247-34	F.O.B. Destination	NOV 1991
52.248-1	Value Engineering	FEB 2000
52.249-2	Termination For Convenience Of The Government (Fixed-Price)	MAY 2004
52.249-8	Default (Fixed-Price Supply & Service)	APR 1984
52.253-1	Computer Generated Forms	JAN 1991
252.201-7000	Contracting Officer's Representative	DEC 1991
252.203-7000	Requirements Relating to Compensation of Former DoD Officials	JAN 2009
252.203-7001	Prohibition On Persons Convicted of Fraud or Other Defense-Contract-Related Felonies	DEC 2008
252.203-7002	Requirement to Inform Employees of Whistleblower Rights	JAN 2009
252.204-7000	Disclosure Of Information	DEC 1991
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7004 Alt A	Central Contractor Registration (52.204-7) Alternate A	SEP 2007
252.204-7005	Oral Attestation of Security Responsibilities	NOV 2001
252.204-7006	Billing Instructions	OCT 2005
252.209-7004	Subcontracting With Firms That Are Owned or Controlled By The Government of a Terrorist Country	DEC 2006
252.211-7003	Item Identification and Valuation	SEP 2010
252.211-7005	Substitutions for Military or Federal Specifications and Standards	NOV 2005
252.211-7006	Radio Frequency Identification	FEB 2007
252.223-7004	Drug Free Work Force	SEP 1988
252.225-7001	Buy American Act And Balance Of Payments Program	JAN 2009
252.225-7002	Qualifying Country Sources As Subcontractors	APR 2003
252.225-7004	Report of Intended Performance Outside the United States and Canada--Submission after Award	MAY 2007
252.225-7009	Restriction on Acquisition of Certain Articles Containing Speciaity Metals	JUL 2009
252.225-7012	Preference For Certain Domestic Commodities	DEC 2008

252.225-7030	Restriction On Acquisition Of Carbon, Alloy, And Armor Steel Plate	DEC 2006
252.226-7001	Utilization of Indian Organizations and Indian-Owned Economic Enterprises, and Native Hawaiian Small Business Concerns	SEP 2004
252.227-7013	Rights in Technical Data--Noncommercial Items	NOV 1995
252.231-7000	Supplemental Cost Principles	DEC 1991
252.232-7003	Electronic Submission of Payment Requests and Receiving Reports	MAR 2008
252.232-7010	Levies on Contract Payments	DEC 2006
252.243-7001	Pricing Of Contract Modifications	DEC 1991
252.243-7002	Requests for Equitable Adjustment	MAR 1998
252.244-7000	Subcontracts for Commercial Items and Commercial Components (DoD Contracts)	AUG 2009
252.247-7023	Transportation of Supplies by Sea	MAY 2002
252.247-7024	Notification Of Transportation Of Supplies By Sea	MAR 2000

CLAUSES INCORPORATED BY FULL TEXT

52.202-1 DEFINITIONS (JUL 2004)

(a) When a solicitation provision or contract clause uses a word or term that is defined in the Federal Acquisition Regulation (FAR), the word or term has the same meaning as the definition in FAR 2.101 in effect at the time the solicitation was issued, unless--

- (1) The solicitation, or amended solicitation, provides a different definition;
- (2) The contracting parties agree to a different definition;
- (3) The part, subpart, or section of the FAR where the provision or clause is prescribed provides a different meaning; or
- (4) The word or term is defined in FAR Part 31, for use in the cost principles and procedures.

(b) The FAR Index is a guide to words and terms the FAR defines and shows where each definition is located. The FAR Index is available via the Internet at <http://www.acqnet.gov> at the end of the FAR, after the FAR Appendix.

(End of clause)

52.203-14 DISPLAY OF HOTLINE POSTER(S) (DEC 2007)

(a) Definition.

United States, as used in this clause, means the 50 States, the District of Columbia, and outlying areas.

(b) Display of fraud hotline poster(s). Except as provided in paragraph (c)--

(1) During contract performance in the United States, the Contractor shall prominently display in common work areas within business segments performing work under this contract and at contract work sites--

(i) Any agency fraud hotline poster or Department of Homeland Security (DHS) fraud hotline poster identified in paragraph (b)(3) of this clause; and

(ii) Any DHS fraud hotline poster subsequently identified by the Contracting Officer.

(2) Additionally, if the Contractor maintains a company website as a method of providing information to employees, the Contractor shall display an electronic version of the poster(s) at the website.

(3) Any required posters may be obtained as follows:

Poster(s) Obtain from

www.dodig.mil/hotline/poster_request.php

(c) If the Contractor has implemented a business ethics and conduct awareness program, including a reporting mechanism, such as a hotline poster, then the Contractor need not display any agency fraud hotline posters as required in paragraph (b) of this clause, other than any required DHS posters.

(d) Subcontracts. The Contractor shall include the substance of this clause, including this paragraph (d), in all subcontracts that exceed \$5,000,000, except when the subcontract--

(1) Is for the acquisition of a commercial item; or

(2) Is performed entirely outside the United States.

(End of clause)

52.216-18 ORDERING. (OCT 1995)

(a) Any supplies and services to be furnished under this contract shall be ordered by issuance of delivery orders or task orders by the individuals or activities designated in the Schedule. Such orders may be issued from date of contract award through a period of three years.

(b) All delivery orders or task orders are subject to the terms and conditions of this contract. In the event of conflict between a delivery order or task order and this contract, the contract shall control.

(c) If mailed, a delivery order or task order is considered "issued" when the Government deposits the order in the mail. Orders may be issued orally, by facsimile, or by electronic commerce methods only if authorized in the Schedule.

(End of clause)

52.242-2 PRODUCTION PROGRESS REPORTS (APR 1991)

(a) The Contractor shall prepare and submit to the Contracting Officer the production progress reports specified in the contract Schedule.

(b) During any delay in furnishing a production progress report required under this contract, the Contracting Officer

may withhold from payment an amount not exceeding \$25,000 or 5 percent of the amount of this contract, whichever is less.

(End of clause)

52.246-18 WARRANTY OF SUPPLIES OF A COMPLEX NATURE (MAY 2001) - ALTERNATE III (APR 1984)

(a) Definitions. As used in this clause--

Acceptance, means the act of an authorized representative of the Government by which the Government assumes for itself, or as an agent of another, ownership of existing and identified supplies, or approves specific services rendered, as partial or complete performance of the contract.

Supplies, means the end items furnished by the Contractor and related services required under this contract. The word does not include "data."

(b) Contractor's obligations. (1) The Contractor warrants that for the warranty period specified under your standard industry warranty, after delivery all supplies furnished under this contract will be free from defects in material and workmanship and will conform with all requirements of this contract; provided, however, that with respect to Government-furnished property, the Contractor's warranty shall extend only to its proper installation, unless the Contractor performs some modification or other work on the property, in which case the Contractor's warranty shall extend to the modification or other work.

(2) Any supplies or parts thereof corrected or furnished in replacement shall be subject to the conditions of this clause to the same extent as supplies initially delivered. This warranty shall be equal in duration to that set forth in paragraph (b)(1) of this clause and shall run from the date of delivery of the corrected or replaced supplies.

(3) The Contractor shall not be obligated to correct or replace supplies if the facilities, tooling, drawings, or other equipment or supplies necessary to accomplish the correction or replacement have been made unavailable to the Contractor by action of the Government. In the event that correction or replacement has been directed, the Contractor shall promptly notify the Contracting Officer, in writing, of the nonavailability.

(4) The Contractor shall also prepare and furnish to the Government data and reports applicable to any correction required (including revision and updating of all affected data called for under this contract) at no increase in the contract price.

(5) When supplies are returned to the Contractor, the Contractor shall bear the transportation costs from the place of delivery specified in the contract (irrespective of the f.o.b. point or the point of acceptance) to the Contractor's plant and return.

(6) All implied warranties of merchantability and "fitness for a particular purpose" are excluded from any obligation contained in this contract.

(c) Remedies available to the Government. (1) In the event of a breach of the Contractor's warranty in paragraph (b)(1) of this clause, the Government may, at no increase in contract price--

(i) Require the Contractor, at the place of delivery specified in the contract (irrespective of the f.o.b. point or the point of acceptance) or at the Contractor's plant, to repair or replace, at the Contractor's election, defective or nonconforming supplies; or

(ii) Require the Contractor to furnish at the Contractor's plant the materials or parts and installation instructions

required to successfully accomplish the correction.

(2) If the Contracting Officer does not require correction or replacement of defective or nonconforming supplies or the Contractor is not obligated to correct or replace under paragraph (b)(3) of this clause, the Government shall be entitled to an equitable reduction in the contract price.

(3) The Contracting Officer shall notify the Contractor in writing of any breach of the warranty in paragraph (b) of this clause within 45 days after discovery of the defect. The Contractor shall submit to the Contracting Officer a written recommendation within 30 days as to the corrective action required to remedy the breach. After the notice of breach, but not later than 45 days after receipt of the Contractor's recommendation for corrective action, the Contracting Officer may, in writing, direct correction or replacement as in paragraph (c)(1) of this clause, and the Contractor shall, notwithstanding any disagreement regarding the existence of a breach of warranty, comply with this direction. If it is later determined that the Contractor did not breach the warranty in paragraph (b)(1) of this clause, the contract price will be equitably adjusted.

(4) If supplies are corrected or replaced, the period for notification of a breach of the Contractor's warranty in paragraph (c)(3) of this clause shall be 30 days from the furnishing or return by the Contractor to the Government of the corrected or replaced supplies or parts thereof, or, if correction or replacement is effected by the Contractor at a Government or other activity, for 45 days thereafter.

(5) The rights and remedies of the Government provided in this clause are in addition to and do not limit any rights afforded to the Government by any other clause of the contract.

(6) All costs incurred or estimated to be incurred by the Contractor in complying with this clause shall be considered when negotiating the total final price under the Incentive Price Revision clause of this contract. After establishment of the total final price, Contractor compliance with this clause shall be at no increase in the total final price. Any equitable adjustments made under paragraph (c)(2) of this clause shall be governed by the paragraph entitled "Equitable Adjustments Under Other Clauses" in the Incentive Price Revision clause of this contract.

(End of clause)

52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://www.farsite.hil.af.mil/VFFAR1.HTM>

(End of clause)

252.211-7003 ITEM IDENTIFICATION AND VALUATION (AUG 2008)

(a) Definitions. As used in this clause'

Automatic identification device means a device, such as a reader or interrogator, used to retrieve data encoded on machine-readable media.

Concatenated unique item identifier means--

(1) For items that are serialized within the enterprise identifier, the linking together of the unique identifier data elements in order of the issuing agency code, enterprise identifier, and unique serial number within the enterprise identifier; or

(2) For items that are serialized within the original part, lot, or batch number, the linking together of the unique identifier data elements in order of the issuing agency code; enterprise identifier; original part, lot, or batch number; and serial number within the original part, lot, or batch number.

Data qualifier means a specified character (or string of characters) that immediately precedes a data field that defines the general category or intended use of the data that follows.

DoD recognized unique identification equivalent” means a unique identification method that is in commercial use and has been recognized by DoD. All DoD recognized unique identification equivalents are listed at http://www.acq.osd mil/dpap/pdi/uid/iuid_equivalents.html.

DoD unique item identification means a system of marking items delivered to DoD with unique item identifiers that have machine-readable data elements to distinguish an item from all other like and unlike items. For items that are serialized within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier and a unique serial number. For items that are serialized within the part, lot, or batch number within the enterprise identifier, the unique item identifier shall include the data elements of the enterprise identifier; the original part, lot, or batch number; and the serial number.

Enterprise means the entity (e.g., a manufacturer or vendor) responsible for assigning unique item identifiers to items.

Enterprise identifier means a code that is uniquely assigned to an enterprise by an issuing agency.

Government's unit acquisition cost means--

(1) For fixed-price type line, subline, or exhibit line items, the unit price identified in the contract at the time of delivery;

(2) For cost-type or undefinitized line, subline, or exhibit line items, the Contractor's estimated fully burdened unit cost to the Government at the time of delivery; and

(3) For items produced under a time-and-materials contract, the Contractor's estimated fully burdened unit cost to the Government at the time of delivery.

Issuing agency means an organization responsible for assigning a non-repeatable identifier to an enterprise (i.e., Dun & Bradstreet's Data Universal Numbering System (DUNS) Number, GS1 Company Prefix, or Defense Logistics Information System (DLIS) Commercial and Government Entity (CAGE) Code).

Issuing agency code means a code that designates the registration (or controlling) authority for the enterprise identifier.

Item means a single hardware article or a single unit formed by a grouping of subassemblies, components, or constituent parts.

Lot or batch number means an identifying number assigned by the enterprise to a designated group of items, usually referred to as either a lot or a batch, all of which were manufactured under identical conditions.

Machine-readable means an automatic identification technology media, such as bar codes, contact memory buttons, radio frequency identification, or optical memory cards.

Original part number means a combination of numbers or letters assigned by the enterprise at item creation to a class of items with the same form, fit, function, and interface.

Parent item means the item assembly, intermediate component, or subassembly that has an embedded item with a unique item identifier or DoD recognized unique identification equivalent.

Serial number within the enterprise identifier means a combination of numbers, letters, or symbols assigned by the enterprise to an item that provides for the differentiation of that item from any other like and unlike item and is never used again within the enterprise.

Serial number within the part, lot, or batch number means a combination of numbers or letters assigned by the enterprise to an item that provides for the differentiation of that item from any other like item within a part, lot, or batch number assignment.

Serialization within the enterprise identifier means each item produced is assigned a serial number that is unique among all the tangible items produced by the enterprise and is never used again. The enterprise is responsible for ensuring unique serialization within the enterprise identifier.

Serialization within the part, lot, or batch number means each item of a particular part, lot, or batch number is assigned a unique serial number within that part, lot, or batch number assignment. The enterprise is responsible for ensuring unique serialization within the part, lot, or batch number within the enterprise identifier.

Unique item identifier means a set of data elements marked on items that is globally unique and unambiguous. The term includes a concatenated unique item identifier or a DoD recognized unique identification equivalent.

Unique item identifier type means a designator to indicate which method of uniquely identifying a part has been used. The current list of accepted unique item identifier types is maintained at http://www.acq.osd mil/dpap/pdi/uid/uii_types.html.

(b) The Contractor shall deliver all items under a contract line, subline, or exhibit line item.

(c) Unique item identifier.

(1) The Contractor shall provide a unique item identifier for the following:

(i) All delivered items for which the Government's unit acquisition cost is \$5,000 or more.

(ii) The following items for which the Government's unit acquisition cost is less than \$5,000:

Contract line, subline, or exhibit line	
item No.	Item description

(iii) Subassemblies, components, and parts embedded within delivered items as specified in Attachment Number ----.

(2) The unique item identifier and the component data elements of the DoD unique item identification shall not change over the life of the item.

(3) Data syntax and semantics of unique item identifiers. The Contractor shall ensure that--

(i) The encoded data elements (except issuing agency code) of the unique item identifier are marked on the item using one of the following three types of data qualifiers, as determined by the Contractor:

(A) Application Identifiers (AIs) (Format Indicator 05 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.

(B) Data Identifiers (DIs) (Format Indicator 06 of ISO/IEC International Standard 15434), in accordance with ISO/IEC International Standard 15418, Information Technology--EAN/UCC Application Identifiers and Fact Data Identifiers and Maintenance and ANSI MH 10.8.2 Data Identifier and Application Identifier Standard.

(C) Text Element Identifiers (TEIs) (Format Indicator 12 of ISO/IEC International Standard 15434), in accordance with the Air Transport Association Common Support Data Dictionary; and

(ii) The encoded data elements of the unique item identifier conform to the transfer structure, syntax, and coding of messages and data formats specified for Format Indicators 05, 06, and 12 in ISO/IEC International Standard 15434, Information Technology--Transfer Syntax for High Capacity Automatic Data Capture Media.

(4) Unique item identifier.

(i) The Contractor shall--

(A) Determine whether to--

(1) Serialize within the enterprise identifier;

(2) Serialize within the part, lot, or batch number; or

(3) Use a DoD recognized unique identification equivalent; and

(B) Place the data elements of the unique item identifier (enterprise identifier; serial number; DoD recognized unique identification equivalent; and for serialization within the part, lot, or batch number only: original part, lot, or batch number) on items requiring marking by paragraph (c)(1) of this clause, based on the criteria provided in the version of MIL-STD-130, Identification Marking of U.S. Military Property, cited in the contract Schedule.

(ii) The issuing agency code--

(A) Shall not be placed on the item; and

(B) Shall be derived from the data qualifier for the enterprise identifier.

(d) For each item that requires unique item identification under paragraph (c)(1)(i) or (ii) of this clause, in addition to the information provided as part of the Material Inspection and Receiving Report specified elsewhere in this contract, the Contractor shall report at the time of delivery, either as part of, or associated with, the Material Inspection and Receiving Report, the following information:

(1) Unique item identifier.

(2) Unique item identifier type.

(3) Issuing agency code (if concatenated unique item identifier is used).

(4) Enterprise identifier (if concatenated unique item identifier is used).

- (5) Original part number (if there is serialization within the original part number).
- (6) Lot or batch number (if there is serialization within the lot or batch number).
- (7) Current part number (optional and only if not the same as the original part number).
- (8) Current part number effective date (optional and only if current part number is used).
- (9) Serial number (if concatenated unique item identifier is used).
- (10) Government's unit acquisition cost.
- (11) Unit of measure.

(e) For embedded subassemblies, components, and parts that require DoD unique item identification under paragraph (c)(1)(iii) of this clause, the Contractor shall report as part of, or associated with, the Material Inspection and Receiving Report specified elsewhere in this contract, the following information:

- (1) Unique item identifier of the parent item under paragraph (c)(1) of this clause that contains the embedded subassembly, component, or part.
- (2) Unique item identifier of the embedded subassembly, component, or part.
- (3) Unique item identifier type.**
- (4) Issuing agency code (if concatenated unique item identifier is used).**
- (5) Enterprise identifier (if concatenated unique item identifier is used).**
- (6) Original part number (if there is serialization within the original part number).**
- (7) Lot or batch number (if there is serialization within the lot or batch number).**
- (8) Current part number (optional and only if not the same as the original part number).**
- (9) Current part number effective date (optional and only if current part number is used).**
- (10) Serial number (if concatenated unique item identifier is used).**
- (11) Description.

** Once per item.

(f) The Contractor shall submit the information required by paragraphs (d) and (e) of this clause in accordance with the data submission procedures at http://www.acq.osd.mil/dpap/pdi/uid/data_submission_information.html.

(g) Subcontracts. If the Contractor acquires by subcontract, any item(s) for which unique item identification is required in accordance with paragraph (c)(1) of this clause, the Contractor shall include this clause, including this paragraph (g), in the applicable subcontract(s).

(End of clause)

AMCAC 52.0216-4002, MULTIPLE AWARD TASK ORDER CONTRACT AND DELIVERY ORDER
CONTRACT OMBUDSMAN (JUN 2001)

a. In accordance with FAR 16.505(b)(4), the following individual has been appointed as ombudsman for multiple award task order and delivery order contracts issued by this organization:

Mr. Dennis P. Longo
U.S. Army Research, Development & Engineering Command Contracting Center
(RDECOM CC)
ATTN: CCRD-OP
4118 Susquehanna Avenue
Aberdeen Proving Ground, MD 21005-3013

Telephone: (410) 278-0846
Facsimile Number: (410) 306-3736
E-mail Address: dennis.longo@us.army.mil

b. The ombudsman has the authority to review contractor complaints that they have not been afforded fair opportunity to be considered for award of a particular task order or delivery order under a multiple award contract.

c. A contractor who receives an award under a multiple award contract may contact the ombudsman with a complaint concerning the award of a particular task order or delivery order placed under the multiple award contract.

(1) The contractor is encouraged to try to resolve the issue with the contracting officer prior to contacting the ombudsman. However, contractor complaints to the ombudsman must be made with 5 workdays of the award under complaint.

(2) The ombudsman's authority is limited to issues pertaining to the awarding of task orders and delivery orders under multiple award contracts. Contractor complaints directed to the ombudsman shall be confined to these issues. All other complaints will be outside the authority of the ombudsman and will be returned to the contractor without action.

d. Upon review of the facts, the ombudsman will determine whether or not the contractor was afforded a fair opportunity to be considered consistent with the procedures in the contract and either:

(1) Deny the contractor's complaint; or,

(2) Require that the contracting officer take corrective action regarding the complaint.

e. If the contracting officer does not agree with the decision of the ombudsman, the matter shall be referred to the cognizant Principal Assistant Responsible for Contracting for final decision.

f. These ombudsman procedures are not subject to FAR 52.233-1, Disputes, with or without its Alternate I found elsewhere in this contract.

Section J - List of Documents, Exhibits and Other Attachments

LIST OF ATTACHMENTS

<u>DOCUMENT TYPE</u>	<u>DESCRIPTION</u>	<u>PAGES</u>	<u>DATE</u>
Attachment J.1	Security Form – DD254	2	24 March 2010
Attachment J.2	List of Drawings & Specifications	5	Not Dated
Attachment J.3	Contract Data Requirements Lists	14	Not Dated
Attachment J.4	Test Requirements	5	Not Dated

J.1 - SECURITY FORM (DD254)

DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION <small>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</small>		1. CLEARANCE AND SAFEGUARDING	
		a. FACILITY CLEARANCE REQUIRED SECRET	
		b. LEVEL OF SAFEGUARDING REQUIRED SECRET	
2. THIS SPECIFICATION IS FOR: (X and complete as applicable)		3. THIS SPECIFICATION IS: (X and complete as applicable)	
a. PRIME CONTRACT NUMBER		<input checked="" type="checkbox"/> a. ORIGINAL (Complete date in all cases)	DATE (YYYYMMDD)
b. SUBCONTRACT NUMBER		b. REVISED (Complete all pertinent spaces)	REVISION NO. DATE (YYYYMMDD)
<input checked="" type="checkbox"/> c. SOLICITATION OR OTHER NUMBER W91CRB-10-	DUPLICATE (YYYYMMDD)	c. FINAL (Complete item 5 in all cases)	DATE (YYYYMMDD)
4. IS THIS A FOLLOW-ON CONTRACT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO. If Yes, complete the following: Classified material received or generated under W9124Q-05-D-0821/0823 (Preceding Contract Number) is transferred to this follow-on contract.			
5. IS THIS A FINAL DD FORM 254? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: In response to the contractor's request dated _____, notification of the classified material is authorized for the purpose of _____.			
6. CONTRACTOR (Include Commercial and Government Entity (CAGE) Code)			
a. NAME, ADDRESS, AND ZIP CODE TBD		b. CAGE CODE TBD	c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code) TBD
7. SUBCONTRACTOR			
a. NAME, ADDRESS, AND ZIP CODE		b. CAGE CODE	c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)
8. ACTUAL PERFORMANCE			
a. LOCATION TBD		b. CAGE CODE TBD	c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code) TBD
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT The production of third generation image intensifier ground night vision devices. The intent of this solicitation is to acquire AN/PVS-14, Monocular Night Vision Device (MNV-D); AN/PVS-7D, Night Vision Goggles; MX-11769/LV, Image Intensifier Assembly; MX-11130D/LV, Image Intensifier Assembly; Helmet Mounts and all associated system spare parts for the systems procured under this contract and fielded AN/PVS-7 and AN/PVS-11 systems.			
10. CONTRACTOR WILL REQUIRE ACCESS TO:		11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	1. HAVE ACCESS TO CLASSIFIED INFORMATION AND AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACCTIVITY	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
b. RESTRICTED DATA	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	2. RECEIVE CLASSIFIED DOCUMENTS ONLY	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
c. CRITICAL CLEARANCE/PROHIBITION DESIGN INFORMATION	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3. RECEIVE AND GENERATE CLASSIFIED MATERIAL	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
d. FORMERLY RESTRICTED DATA	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	4. FABRICATE, MODIFY, OR STORE C. ASSURED HARDWARE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
e. INTELLIGENCE INFORMATION	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	5. PERFORM BENEVOLENT ONLY	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
(1) Sensitive Compartmented Information (SCI)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	6. HAVE ACCESS TO US CLASSIFIED INFORMATION DURING THE U.S. PORTION OF THE CONTRACT AND TO THE RESTRICTIONS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
(2) Non-SCI	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	7. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE PERSONNEL INFORMATION CENTER TO OBTAIN OTHER SECURITY INFORMATION CENTER	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
f. SPECIAL ACCESS INFORMATION	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	8. REQUIRE A CORRECT ACCOUNT	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
g. NATO INFORMATION	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	9. HAVE TEMPERT REQUIREMENTS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
h. FOREIGN GOVERNMENT INFORMATION	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	10. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
i. LIMITED DISSEMINATION INFORMATION	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	11. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
j. FOR OFFICIAL USE ONLY INFORMATION	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	12. OTHER (Specify)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
k. OTHER (Specify) Security Classification Guides	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		

DD FORM 254, DEC 1999

PREVIOUS EDITION IS OBSOLETE.

Adobe Professional 7.0

12. PUBLIC RELEASE. Any information (classified or unclassified) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release Direct Through (Specify)

TO: Project Manager Soldier Sensors and Lasers
 ATTN: SFAB-SDR-SSL
 10170 Beach Road, Building 325 Fort Belvoir, Virginia 22060-5820

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs) for review
 *In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. SECURITY GUIDANCE. The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in the guidance, the contractor is authorized and encouraged to provide recommendations, changes, to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (FV in all appropriate for this classified effort. Attach, or forward under separate correspondence, any documents/guides/contracts referenced herein. Attach additional pages as needed to provide complete guidance.)

10.a: The contractor will require a STU III or STE capability for discussion of classified material, reference 11.h and 11.j.

10.j: Safeguarding "For Official Use Only" (FOUO) information. Attachment A

10.k: The Contractor will require access to the following Security Classification Guides: Image Intensification Devices, date 7 May 2007 (Attachment C); and Laser Protection Material, dated 9 October 2007 (Attachment D). This classification guidance is issued to provide instructions and guidance on the classification of information involved in the production of third generation night vision devices. If the security classifications contained in these guides impose requirements for protection that prove impractical, or if current progress of any phase of the system, program or project development, scientific or technological changes in the state-of-the-art, or any other contributory factors indicate the need for changes in the guides, completely documented and justified recommendations should be made through the office identified in Block 12 to the Contracting Officer.

11.c: The Contractor will receive and generate classified documents or other material and will require detailed security guidance. Any classified information generated in performance of this contract or subcontract shall be classified according to the markings shown on the source material.

11.g: DD Form 1540 (Registration for Scientific and Technical Information Services) and DD Form 1541 (Facility Clearance Register) must be prepared and processed by the contractor before the contractor can utilize DTIC's services, through the office listed in Block 12.

SEE CONTINUATION SHEET

14. ADDITIONAL SECURITY REQUIREMENTS. Requirements, in addition to SM requirements, are established for this contract. Yes No
 (If Yes, identify the pertinent contractual clauses in the contract document, task, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use item 15 if additional space is needed.)

15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the cognizant security office. Yes No
 (If Yes, specify and identify specific areas or elements covered and the security responsible for inspections. Use item 15 if additional space is needed.)

16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

(b) (6)

ADDRESS (Include Zip Code)
 5901 Puumah Road
 Fort Belvoir, VA 22060-5422

SIGNATURE **(b) (6)**

17. REQUIRED DISTRIBUTION

- a. CONTRACTOR
- b. SUBCONTRACTOR
- c. COGNIZANT SECURITY OFFICE FOR PRIC AND SUBCONTRACTOR
- d. US ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
- e. ADMINISTRATIVE CONTRACTING OFFICER
- f. OTHERS AS NECESSARY

DD FORM 154 (EACH) DEC 1999

Block 13. Security Guidance (continued)**SOLICITATION# W91CRB-10-**

Block 11.h: The contractor will require access to classified crypto keys for STU, III or STE and must acquire and maintain a COMSEC account. COMSEC must be safeguarded as specified in Appendix B.

Block 11.j: The contractor will be required to maintain OPSEC requirement IAW AR 30-1, AMC Supplement to AR 30-1, and proper controls:

1. *Administer an OPSEC briefing to personnel stressing active planning, preparation, and conduct of operations, OPSEC vulnerabilities, and countermeasures.*
2. *Discuss classified information only in secure spaces or on cryptographically secure or protected phones. Do not "talk around" information on nonsecure phones.*
3. *Protect the use of classified equipment or tactics, and keep classified material under physical cover when threatened by hostile collection systems.*
4. *Employ physical security measures to safeguard resources against threats.*
5. *Ensure all information placed on publicly accessible Web sites is properly reviewed for security, levels of sensitivity and other concerns before it is released.*

Block 11.k: The contractor is authorized to use Defense Courier Service to facilitate the transport of classified data and hardware CONUS and OCONUS to support and maintain systems for frontline troops.

13.a: Classified information/material will be protected IAW National Industrial Security Program Operating Manual (NISPOM), Chapter 5.

13.b: Contractor personnel performing Automated Data Processing (ADP) sensitive duties are subject to investigative and assignment requirements IAW AR 25-2, AR 380-67, and affiliated regulations.

13.c: All security requirements contained within this document shall be flowed down to all subcontractors as required on a need to know basis for the execution of this procurement.

Public Release of Information: The fact that this guide shows certain details of information to be unclassified does not permit automatic public release of them. Proposed disclosure of unclassified information regarding this contract shall be submitted to the office identified in item 12 of the DD254 for processing a minimum of 60 days prior to the date needed by the proposer for release. The term "information" applies, but is not limited to articles, speeches, photographs, brochures, advertisements, displays, and presentations on any phase of this program.

Release of Classified & Unclassified Information to Foreign Governments and Their Representatives: Any contractor activity receiving a request from a Foreign Government, or a representative thereof, for classified and/or unclassified information about this program shall forward the request, through the office identified in item 12 of this DD254 to the contracting officer. This does not apply to exchanges of information on approved Foreign Military Sales programs.

Reports, generated under this contract shall carry the following statement on the front cover and title page: "Distribution limited to U.S. Government Agencies only; this document may contain manufacturing techniques and performance evaluation information." The effective date of the report shall also be included. Requests for reports generated under this contract must be referred to Project Manager Soldier Maneuver Sensors; ATTN: SFAF-SDR-SMS; 10170 Beach Road, Building 325; Fort Belvoir, VA 22060-5800.

Block 13. Security Guidance (continued)

SOLICITATION# W91CRB-10

In addition to the marking requirements of the Security Classification Guides referenced in 11.j above for classified information generated under terms of this contract, the contract number must be indicated on all classified information generated under this contract.

Specialized manufacturing drawings, techniques, materials, and processes that are classified confidential, are to be marked as follows:

Classified by: Project Manger Soldier Maneuver Sensors, ATTN: SFAB-SDR-SMS; 10170 Beach Road, Building 325; Fort Belvoir, VA 22060-5800

Reports are unclassified unless the results exceed the classification limit as provided by referenced Security Classification Guides or unless they contain specialized processing, fabrication, or manufacturing techniques.

(b) (6)

24 Mar 10
Date

PM Soldier Protection and Individual Equipment

Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Attachment 1	DD 2579 Small Business Coord. Ltr.		24-JUN-2010

J.2 - LIST OF DRAWINGS & SPECS

PERFORMANCE SPECIFICATIONS					
Number	Cage Code	Document Number	Rev.	Date	Title
1	80063	MIL-PRF-49184	C	1-Oct-09	Eyepiece Lens Assembly, Performance Specification
2	80063	MIL-PRF-49190	C	1-Oct-09	Objective Lens Assembly, Performance Specification
3	80063	MIL-PRF-49313	E	1-Oct-09	AN/PVS-7D System Performance Specification
4	80063	MIL-PRF-49324	D	1-Oct-09	AN/PVS-14 System Performance Specification
5	80063	MIL-PRF-49325	B	1-Oct-09	3X Magnifier Lens, Performance Specification
6	80063	MIL-PRF-49427	C	1-Oct-09	Eyepiece Lens Assembly, Performance Specification
7	80063	MIL-PRF-49453	E	1-Oct-09	MX-10130/UV Image Intensifier, Performance Specification
8	80063	MIL-PRF-A3256342	B	1-Oct-09	Objective Lens Assembly, Performance Specification
9	80063	MIL-PRF-A3256363	E	1-Oct-09	MX-11769/UV Image Intensifier, Performance Specification
DRAWINGS					
Number	Cage Code	Document Number	Rev.	Date	Title
10	54490	5002569	P	6-Jun-08	Retainer, Tube
11	54490	5002624	L	6-Oct-04	Plastic, Polycarbonate
12	54490	5005838	M	7-Jan-04	Ring, Linkage Eyepiece
13	54490	5007649	-	5-May-87	Tool
14	54490	5007665	A	27-Jun-87	Device, Purge
15	54490	5007667	A	16-Feb-88	Valve
16	54490	5007678	-	5-May-87	Set, Vacuum Hoses
17	54490	5007679	B	27-Jun-87	Housing, Device
18	54490	5007693	-	5-May-87	Case, Carrying
19	54490	5009082	H	25-Feb-04	Adhesive, Modified Cyanoacrylate Ester
20	54490	5009430	V	21-Dec-04	Plastic, Polyetherimide
21	54490	5009545	P	19-Jun-08	Eyepiece Lens Assembly
22	54490	5009546	L	10-Mar-05	Cell Assembly, Eyepiece
23	54490	5009547	J	25-Feb-04	Mount, Eyepiece
24	54490	5009549	K	25-Feb-04	Ring, Focus
25	54490	5009550	G	25-Feb-04	Ring, Retaining

26	54490	5009551	H	25-Feb-04	Plate, Indicator
27	54490	5009737	G	18-Mar-04	Light Interference Filter (LIF) Assembly
28	54490	5009738	R	11-Nov-05	Light Interference Filter (LIF)
29	80063	A3140640	-	13-Sep-89	COC Filter
30	80063	A3140641	A	29-Jul-04	Holder, Filter
31	80063	A3140642	B	29-Jul-04	Coated Filter, COC
32	80063	A3140643	-	13-Sep-89	Packing, Preformed
33	80063	A3144258	V	10-Mar-05	Goggle Assembly, PVS 7-B and PVS 7-D
34	80063	A3144261	AB	9-May-06	Goggle Assembly
35	80063	A3144263	D	5-Oct-04	Demist Shield Assembly
36	80063	A3144264	G	6-Oct-04	Window, Sacrificial Assembly
37	80063	A3144267	D	6-Oct-04	Strap, Shoulder Assembly
38	80063	A3144268	H	6-Oct-04	Headmount Assembly
39	80063	A3144269	B	27-Dec-95	Window Demisting
40	80063	A3144270	B	14-Oct-93	Housing, Demist Shield
41	80063	A3144271	A	27-Apr-92	Ring Retainer, Demist Shield
42	80063	A3144272	E	9-Mar-05	Holder, Sacrificial Window
43	80063	A3144273	C	5-Oct-04	Window
44	80063	A3144274	L	6-Oct-04	Adhesive, Structural
45	80063	A3144275	C	6-Oct-04	Primer, Seal
46	80063	A3144279	E	9-Mar-05	Headband Assembly, Fastener
47	80063	A3144280	H	9-Mar-05	Browpad Assembly, Thin
48	80063	A3144282	L	18-Mar-04	Container/Wrench, Objective Filter
49	80063	A3144286	E	9-Mar-05	Chinstrap Assembly
50	80063	A3144287	F	10-Mar-05	Tiebar
51	80063	A3144289	H	9-Mar-05	Socket, Mounting Assembly
52	80063	A3144290	H	10-Mar-05	Neckpad Assembly
53	80063	A3144291	D	5-Oct-04	Browpad Attachment
54	80063	A3144292	E	10-Mar-05	Strap Assembly, Elev
55	80063	A3144293	F	10-Mar-05	Strap Assembly, Narrow
56	80063	A3144294	F	6-Oct-04	Tape, Photo
57	80063	A3144295	D	10-Mar-05	Brace, Headband
58	80063	A3144296	D	5-Oct-04	Snap Assembly
59	80063	A3144297	G	5-Oct-04	Shaft, Slide
60	80063	A3144298	D	5-Oct-04	Body Release
61	80063	A3144299	F	5-Oct-04	Bushing, Release
62	80063	A3144300	E	5-Oct-04	Button, Release
63	80063	A3144301	E	5-Oct-04	Spring, Grip
64	80063	A3144302	F	6-Oct-04	Magnet, Permanent
65	80063	A3144303	E	5-Oct-04	Catch
66	80063	A3144304	F	10-Mar-05	Socket, Mounting
67	80063	A3144305	M	7-Jun-06	Objective Lens
68	80063	A3144306	H	7-Jun-06	Cord, Neck
69	80063	A3144310	F	27-Dec-95	Rear Cover Assembly
70	80063	A3144311	K	7-May-04	Label, Warranty
71	80063	A3144312	H	7-Jun-06	Identification Plate, Goggle
72	80063	A3144314	B	5-Nov-92	Washer, Flat
73	80063	A3144315	E	10-Mar-05	Screw, Purge
74	80063	A3144316	D	10-Mar-05	Packing, Preformed
75	80063	A3144318	G	10-Mar-05	Cap, Lens

76	80063	A3144320	G	10-Mar-05	Focus Knob
77	80063	A3144322	D	5-Oct-04	Close Focus Stop
78	80063	A3144323	E	11-Nov-05	Packing, Preformed
79	80063	A3144326	D	6-Oct-04	Buckle
80	80063	A3144326	B	6-Oct-04	Buckle
81	80063	A3144354	D	10-Mar-05	Headband (Molded)
82	80063	A3144360	D	10-Mar-05	Headband Assembly, Inserts
83	80063	A3144361	E	5-Oct-04	Chin Cup
84	80063	A3144362	E	6-Oct-04	Webbing, Chinstrap
85	80063	A3144363	D	6-Oct-04	Webbing
86	80063	A3144394	P	7-Mar-08	Battery Cap Assembly
87	80063	A3144396	F	10-Mar-05	Spring, Battery Cap
88	80063	A3144401	D	10-May-04	Knob, Switch
89	80063	A3144404	F	10-Mar-05	Knob, Assembly
90	80063	A3144405	E	10-May-04	Lock Pin, Switch Knob
91	80063	A3144406	E	6-Oct-04	Decal, Switch Knob
92	80063	A3144422	F	5-Jan-07	Eyecup, Molded Assembly
93	80063	A3144423	D	10-May-04	Back-up Ring, Eyecup
94	80063	A3144432	D	18-Mar-04	Thermoplastic Resin (Ultem)
95	80063	A3144435	J	10-Mar-05	Browpad Assembly, Medium
96	80063	A3144436	J	10-Mar-05	Browpad Assembly, Thick
97	80063	A3144438	E	6-Oct-04	Webbing Snap
98	80063	A3144443	A	23-Apr-92	Catch Adjusting Fixture Assembly
99	80063	A3144455	C	6-Oct-04	Buckle, Strap Shoulder
100	80063	A3144456	E	10-May-04	Snaphook
101	80063	A3144457	D	6-Oct-04	Coating, Polyvinyl Chloride
102	80063	A3144458	C	6-Oct-04	Vinyl Coating
103	80063	A3144460	C	14-Mar-97	Plate, Identification Case
104	80063	A3144462	V	10-Mar-05	Adhesive, Threadlocking
105	80063	A3172531	H	2-Mar-05	Collimator, AN/PVS-7B/D
106	80063	A3172540	B	11-Nov-05	Rear Cover
107	80063	A3172541	J	13-May-04	Adhesive, Ultraviolet Curable
108	80063	A3172542	H	14-May-04	Activator
109	80063	A3172545	B	10-May-04	Window, Sacrificial (Alternate)
110	80063	A3187392	J	9-Mar-05	Case, Carrying
111	80063	A3187430	C	14-Oct-04	Compass Assembly
112	80063	A3187441	C	14-Oct-04	IR Spot/Flood Assembly
113	80063	A3187445	D	11-Nov-05	3X Magnifier Lens
114	80063	A3187446	D	11-Nov-05	Adapter, 3X Magnifier
115	80063	A3187447	C	11-Nov-05	Lens Cap, Flip Up 3X Magnifier
116	80063	A3187448	E	11-Nov-05	Pouch, 3X Magnifier
117	80063	A3187450	F	13-Oct-04	Image Intensifier Assembly, MX-10130()/UV
118	80063	A3202841	C	15-Oct-98	Nape Strap Assembly
119	80063	A3202846	B	13-Oct-04	Molding Material, Thermoplastic Elastomer
120	80063	A3202851	E	10-Mar-05	Knob, Switch
121	80063	A3202853	-	2-May-94	Ring, Retainer, Demist Shield (Alternate)
122	80063	A3202854	-	5-May-94	Housing, Demist Shield (Alternate)
123	80063	A3202857	-	5-May-94	Window, Demisting (Alternate)
124	80063	A3202864	B	10-Mar-05	Molding Material, Thermoplastic Elastomer
125	80063	A3202867	B	10-Mar-05	Primer

126	80063	A3202874	D	5-Oct-04	Warranty Label
127	80063	A3202876	-	2-May-94	Packing Performed
128	80063	A3202883	F	10-Mar-05	Headband-Molded
129	80063	A3207330	W	19-Jan-10	Wired Housing Assembly
130	80063	A3256337	F	10-Mar-05	AN/PVS-14 MNVD
131	80063	A3256340	J	10-Mar-05	Monocular Assembly
132	80063	A3256341	K	19-Jan-10	Monocular Housing Assembly
133	80063	A3256342	C	3-Sep-09	Objective Lens Assembly
134	80063	A3256343	B	10-Mar-05	Battery Housing Assembly
135	80063	A3256344	B	10-Mar-05	Battery Cartridge
136	80063	A3256347	C	11-Nov-05	Head/Helmet Mount Adapter
137	80063	A3256348	C	10-Mar-05	Weapon Mount
138	80063	A3256350	G	10-Mar-05	Image Intensifier, Var. Gain
139	80063	A3256351	C	10-Mar-05	Knob Assembly, Variable Gain
140	80063	A3256353	C	10-Mar-05	Demist Shield Assembly
141	80063	A3256354	D	10-Mar-05	Adapter, Eyepiece Assembly
142	80063	A3256356	B	10-Mar-05	O-Ring, Battery Housing
143	80063	A3256357	C	6-Oct-04	Set Screw
144	80063	A3256358	E	7-Jun-06	Light Pipe
145	80063	A3256360	C	14-Oct-04	Lock Ring, Objective
146	80063	A3256364	E	6-Oct-06	Objective Cell Assembly
147	80063	A3256368	D	27-Aug-07	Helmet, Mount Assembly
148	80063	A3256370	A	10-Mar-05	Rear Clip
149	80063	A3256371	D	1-Jul-08	Front Bracket Assembly
150	80063	A3256372	A	10-Mar-05	Tension Adjustment/Latch Assembly
151	80063	A3256387	D	13-Oct-04	Night Vision Goggle Set, AN/PVS-7D
152	80063	A3256388	D	13-Oct-04	Image Intensifier Assembly, MX-10130D/UV
153	80063	A3256391	E	11-Nov-05	Lens Assembly, 3X MX-11683/U
154	80063	A3260933	C	10-Mar-05	Cord, Retainer
155	80063	A3260939	G	11-Nov-05	Battery Cap, Retainer Kit
156	80063	A3260940	B	5-Oct-04	Lens Cap Flip Up 3X Magnifier
157	80063	A3264345	E	10-Mar-05	Identification. Plate, Case
158	80063	A3264346	B	10-May-04	Cushion, Side
159	80063	A3264347	B	10-May-04	Cushion, End
160	80063	A3264348	B	10-May-04	Cushion, Bottom
161	80063	A3264349	B	5-Oct-04	Cushion, Top
162	80063	A3264350	D	10-Mar-05	Case Assembly, Shipping & Storage
163	80063	A3264351	C	5-Oct-04	Cushion, Strap Assembly
164	80063	A3264352	F	7-Jun-06	Wired Housing
165	80063	A3264354	E	7-Jun-06	Plate, ID
166	80063	A3264355	E	10-Oct-04	Label, Warranty
167	80063	A3264357	F	7-Jun-06	Battery Housing Sub-Assembly
168	80063	A3264361	B	18-May-04	Adhesive, Structural
169	80063	A3264362	C	11-Nov-05	Image Intensifier Assembly, MX-10130D/UV High Performance
170	80063	A3264363	B	14-Oct-04	Image Intensifier Assembly, MX-11769/UV High Performance
171	80063	A3277667	A	14-Oct-04	Thermoplastic Polyurethane Resin
172	80063	A3279400	B	13-Oct-04	Image Intensifier Assembly, MX-10130E/UV
173	80063	A3279605	A	27-Jun-06	Diopter Scope Assembly

174	80063	A3279606	C	8-Jun-06	Finder Scope
175	80063	A3279607	A	8-Jun-06	Ring Mount Assembly
176	80063	A3279608	A	9-Mar-05	Mounting Adapter
177	80063	A3297290	B	1-Jul-08	Image Intensifier Assembly, MX-10130D/UV High Performance
178	80063	A3297300	B	11-Nov-05	Image Intensifier Assembly, MX-10130D/UV High Performance
179	80063	A3297307	E	26-Jan-10	Kit, Front Bracket Assembly, ACH/CVC
180	80063	A3297308	C	26-Jan-10	Front Bracket Assembly, ACH/CVC
181	80063	A3297309	B	2-Feb-07	Battery Housing Assembly
182	80063	A3297310	B	6-Dec-07	Image Intensifier, MX-11769/UV High Performance
183	80063	A3297311	D	11-May-09	Battery Housing Subassembly
184	80063	A3297312	-	21-Dec-04	Battery Cap Assembly
185	80063	A3297313	A	1-Jul-08	Knob Assembly, Variable Gain
186	80063	A3297314	-	9-Mar-05	Insert, Thread
187	80063	A3297315	-	28-Jan-10	Screw, Ballistic, Front Bracket
188	80063	A3297316	-	3-Sep-09	Packing, Preformed
189	80063	A3297319	A	5-Feb-08	Battery Housing Subassembly
190	80063	A3297320	D	8-Oct-09	Image Intensifier, MX-11769/UV High Performance
191	80063	QAP A3140670	-	24-Jul-90	QAP Case, Shipping and Storage
192	80063	QAP A3140777	-	12-Jul-90	QAP Grip, Eyepiece
193	80063	QAP A3144263	B	31-May-94	QAP Demist Shield Assembly
194	80063	QAP A3144264	A	5-Nov-92	QAP Window, Sacrificial Assembly
195	80063	QAP A3144268	B	1-May-01	QAP Headmount Assembly
196	80063	QAP A3144394	C	26-Sep-01	QAP Battery Cap Assembly
197	80063	QAP A3144404	B	31-May-94	QAP Knob, Assembly
198	80063	QAP A3187392	-	13-Jul-94	QAP Case, Carrying
199	80063	QAP A3187430	-	9-Jan-95	QAP Compass Assembly
200	80063	QAP A3187441	A	23-Feb-95	QAP IR Spot/Flood Assembly
201	80063	QAP A3207330	D	1-May-01	QAP Wired Housing Assembly
202	80063	QAP A3256341	A	18-Jul-99	QAP Monocular Housing Assembly
203	80063	QAP A3256343	-	18-Jul-99	QAP Battery Housing Assembly
204	80063	QAP A3256344	-	18-Jul-99	QAP Battery Cartridge
205	80063	QAP A3256347	A	17-Mar-04	QAP Head/Helmet Mount Adapter
206	80063	QAP A3256348	-	18-Jul-99	QAP Weapon Mount
207	80063	QAP A3256351	A	14-Apr-03	QAP Knob Assembly, Variable Gain
208	80063	QAP A3256353	-	18-Jul-99	QAP Demist Shield Assembly
209	80063	QAP A3256368	A	18-May-07	QAP Helmet, Mount Assembly
210	80063	QAP A3297309	A	2-Feb-07	QAP Battery Housing Assembly
211	80063	QAP A3297312	-	21-Dec-04	QAP Battery Cap Assembly
212	80063	QAP A3297313	-	21-Dec-04	QAP Knob Assembly, Variable Gain
213	80063	SM-A-653097	B	26-Mar-01	Grease, Aircraft and Instrument
214	80063	SM-B-657374	F	19-Mar-01	Plastic/Hard Anodize Coating
215	80063	SM-C-657451	B	17-Oct-85	Purge Adapter

J.3 - CDRL'S

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188		
A. CONTRACT LINE ITEM NO. A001		B. EXHIBIT A		C. CATEGORY: TDP __TM - __OTHER - MISC				
D. SYSTEM/ITEM Omnibus VIII			E. CONTRACT/PR NO.		F. CONTRACTOR TBD			
1. DATA ITEM NO.		2. TITLE OF DATA ITEM Meeting Agenda/Charts/Minutes/Action Item List			3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW para. 3.3.3		6. REQU RING OFFICE SFAE-SDR-SMS			
7. DD 250 REQ LT	9 DIST STATEMENT REQU RED	10. FREQUENCY AR	12. DATE OF F RST SUBMISSION SEE BLK 16		14. DISTRIBUTION			
8. APP CODE A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		a. ADDRESSEE		b. COPIES	
16. REMARKS Contractor format is acceptable. Meeting Agendas and briefing charts shall be submitted to the Government 5 business days prior to the meeting. Meeting Minutes with Action Item Register and Attendance Sheets shall be submitted 5 days after completion of meeting. Government requires 10 days for review/comment/approval. Contractor shall incorporate corrections and resubmit within 3 days of receipt of Government comments.					Draft	Final		
					SFAE-SDR-SMS	1	1	
15. TOTAL					1	1		

CONTRACT DATA REQUIREMENTS LIST <i>(1 Data Item)</i>						Form Approved OMB No. 0704-0188		
A. CONTRACT LINE ITEM NO. A002		B. EXHIBIT A		C. CATEGORY: TDP <u> </u> TM - <u> </u> OTHER - <u> </u> NDTI				
E. SYSTEM/ITEM Omnibus VIII			E. CONTRACT/PR NO.		F. CONTRACTOR			
1. DATA ITEM NO.		2. TITLE OF DATA ITEM Quality Validation Plan (QVP)			3. SUBTITLE Revision Submittals			
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW para. 3.7.2		6. REQU RING OFFICE SFAE-SDR-SMS			
7. DD 250 REQ LT	9 DIST STATEMENT REQU RED	10. FREQUENCY AR	12. DATE OF F RST SUBMISSION SEE BLK 16		14. DISTRIBUTION			
8. APP CODE A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16					b. COPIES
16. REMARKS Contractor format acceptable. The QVP shall be submitted at the time of the proposal and shall be incorporated into the contract upon contract award. After contract award, the QVP shall be changed or updated only as agreed to by the IPPT. The contractor shall use the test groups, frequencies, and sample levels outlined in the OMNIBUS VIII Test Requirements document, located at Section J, as the baseline for establishing their tests and sample requirements for conformance inspections and 100% unit acceptance tests in their QVP. The QVP shall provide the approach for assuring all deliveries meet specification requirements. The QVP shall include, for each specification requirement, the method of validation (test, demonstration, inspection or analysis), test conditions and applicable test standard, sampling plan, sample size, acceptable quality level, method of determining lot size, test schedules, test sequences, and frequency of testing for the proposed initial production test (IPT), periodic conformance inspection (CI) and 100% unit acceptance test (AT). The QVP shall follow the format below as a minimum and as applicable. Additional areas of coverage shall be included, as necessary, to further define the effort the contractor intends to accomplish on this program. <u>Scope.</u> The contractor shall describe the scope of the QVP. The scope shall include the applicable products/services being offered, the location of performance, and a general description of the tests to be performed, sampling plans to be used and the sequence of tests as applicable. <u>Reference Documents.</u> The contractor shall list all the applicable references to be used that are relevant to accomplishing the QVP. Dates of the references shall be indicated.					a. ADDRESSEE	Draft	Final	
					SFAE-SDR-SMS	1	1	Reg

Requirements. The contractor shall list all the technical requirements of the acquisition and how he intends to verify compliance to these requirements. Appendix A of this SOW shall be used for establishing the baseline of these requirements. The contractor shall indicate the sequence of all testing. The contractor shall list all of his procedures relevant to the QVP and the process for preparation, review and approval of these procedures. The contractor shall state the role of the IPPT with regard to implementing, maintaining, and making revisions to the QVP throughout the life of the contract.

Sampling Plan. The contractor shall list the military and/or commercial sampling plans he intends to use. The contractor shall describe how he intends to form lots if using lot-by-lot sampling. Lot sizes shall not exceed 30 days of production. The contractor shall describe how he intends to draw samples for inspection/testing. Samples shall be selected randomly from the entire lot or randomly throughout the 30 days of production from subsets of the lot, such as a week's production. Any differences in the contractor's sampling process that are described in military/commercial sampling standards shall be defined and justified based on sound statistical theory. In all cases, the contractor shall use sampling plans specifying an acceptance number of zero. Appendix A of this SOW has established lot-by-lot sampling inspection in accordance with ANSI/ASQ Z1.4-2008: Sampling Procedures and Tables for Inspection by Attributes. The contractor may also consider continuous sampling inspection in accordance with MIL-STD-1916, DOD Test Method Standard, DoD Preferred Methods for Acceptance of Product. For continuous sampling, the contractor shall start out using, as a minimum, a Verification Level II as defined in MIL-STD-1916.

Inspection and Testing Procedure. The contractor shall describe his production acceptance inspection and testing procedures. The contractor shall identify all applicable inspection and test procedures by procedure title, version and date. Acceptance testing shall be performed in accordance with the approved production acceptance test procedures. All acceptance test procedures shall be reviewed and approved by the IPPT.

Accept/Reject Criteria. The contractor shall state all accept/reject criteria for each inspection and test. These criteria shall meet specification requirements found in the contract.

Govovernment. requires 30 days for review/comment/approval. Contractor shall incorporate corrections and submit final revision NLT 15 days after receipt of Government comments or approval.

15. TOTAL	1	1	

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 0704-0188		
A. CONTRACT LINE ITEM NO. A003		B. EXHIBIT		C. CATEGORY: TDP ___ TM - ___ OTHER - <u>NDTI</u>			
F. SYSTEM/ITEM Omnibus VIII		E. CONTRACT/PR NO. TBD		F. CONTRACTOR TBD			
1. DATA ITEM NO.	2. TITLE OF DATA ITEM Test/Inspection Reports			3. SUBTITLE Failed Item Analysis Report (FIAR)			
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE SOW para. 3.4.3		6. REQUESTING OFFICE SFAE-SDR-SMS			
7. DD 250 REQ LT	9 DIST STATEMENT REQU RED D	10. FREQUENCY AR	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION			
8. APP CODE A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	a. ADDRESSEE	b. COPIES		
					Draft	Final	
16. REMARKS Prepare FIAR in contractor format. For each failure that occurs, the contractor shall notify the Government within 2 working days, and shall prepare and submit a FIAR within 10 workdays to the IPPT for review, comment, and/or concurrence. Government requires 7 days for review and approval or comment. Contractor shall incorporate corrections and resubmit within 5 days of receipt of Government comments. The FIAR shall include verification of the failure mode, a summary of the failure analysis and identification of the root cause(s), disposition of the failed item(s), action taken to eliminate the root cause(s) and to prevent recurrence, corrective action for all materiel affected including items that may have been delivered to the Government, verification that this corrective action was effective, history of the failure, containment of the failure, and recommended disposition of the lot. The FIAR shall not be considered closed until the IPPT has concurred on the report. Failures occurring during Government conducted testing, where the test item has been returned to the contractor, are also subject to this requirement. The contractor's failure reporting process shall include root cause analysis methodologies, timelines for failure analysis and corrective action and escalation procedures for failure to meet these timelines. Concurrence by the IPPT is required prior to shipment of any potentially affected production units. E-mail is the preferred method of notification and FIAR submittal. The complete content of the							
				SFAE-SDR-SMS	1	1	

FIAR and a list of personnel to be notified of failures shall be concurred on by the IPPT.			
Block 9: Distribution Statement D - Distribution authorized to the			
Department of Defense and DoD contractors only. Reason: To			
protect technical/operational data or information, Oct 01.			
Other requests shall be referred to SFAE-SDR-SMS.	15. TOTAL	1	1

CONTRACT DATA REQUIREMENTS LIST <i>(1 Data Item)</i>						<i>Form Approved</i> <i>OMB No. 0704-0188</i>		
A. CONTRACT LINE ITEM NO. A004		B. EXHIBIT		C. CATEGORY: TDP <u> </u> TM - <u> </u> OTHER - <u> </u> NDTI				
G. SYSTEM/ITEM Omnibus VIII			E. CONTRACT/PR NO. TBD		F. CONTRACTOR TBD			
1. DATA ITEM NO.	2. TITLE OF DATA ITEM Test Plan/Procedures				3. SUBTITLE IPT/CI Test Plan/Procedures			
4. AUTHORITY (<i>Data Acquisition Document No.</i>)			5. CONTRACT REFERENCE SOW para. 3.4.5		6. REQUIRING OFFICE SFAE-SDR-SMS			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED D	10. FREQUENCY AR	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION				
8. APP CODE A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	a. ADDRESSEE					b. COPIES
16. REMARKS Test plans/procedures are to be submitted via letter of transmittal no later than 45 days prior to start of testing. Government requires 14 days for review and approval or comment. Contractor shall incorporate corrections and resubmit within 7 days of receipt of Government comments. Any modifications to the agreed to plan/procedures shall be concurred with in writing by the IPPT co-chairpersons prior to being implemented. Final approval of the PQT/CI plans/procedures shall occur prior to commencement of the IPT/CI testing for each tube, spare component, or system type. Block 9: Distribution Statement D - Distribution authorized to the Department of Defense and DoD contractors only. Reason: To protect technical/operational data or information, Oct 01. Other requests shall be referred to SFAE-SDR-SMS.				a. ADDRESSEE	Draft	Final	Reg	Repro
				SFAE-SDR-SMS	1	1		
15. TOTAL				1	1			

CONTRACT DATA REQUIREMENTS LIST <i>(1 Data Item)</i>						<i>Form Approved</i> OMB No. 0704-0188				
A. CONTRACT LINE ITEM NO. A005		B. EXHIBIT		C. CATEGORY: TDP TM - OTHER - NDTI						
H. SYSTEM/ITEM Omnibus VIII			E. CONTRACT/PR NO. TBD		F. CONTRACTOR TBD					
1. DATA ITEM NO.	2. TITLE OF DATA ITEM Test/Inspection Reports				3. SUBTITLE IPT Test Reports, Reliability Reports					
4. AUTHORITY (<i>Data Acquisition Document No.</i>)			5. CONTRACT REFERENCE SOW para. 3.4.6, 3.4.7		6. REQUIRING OFFICE SFAE-SDR-SMS					
7. DD 250 REQ LT	9. DIST STATEMENT REQ RED D	10. FREQUENCY AR	12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION					
8. APP CODE A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		a. ADDRESSEE		b. COPIES			
16. REMARKS Report is to be submitted via letter of transmittal within 21 days after completion of tests/inspections. Government requires 21 days for review and approval or comment. Contractor shall incorporate corrections and resubmit within 14 days of receipt of Government comments. Contract format acceptable. The IPT report shall reflect the test results, including raw data, compiled and calculated data, failed item analysis reports, and conclusions. The reports shall address all testing performed and all failures encountered. All conclusions shall be clearly identified as such and shall be appropriately segregated from the objective results. The report shall include the names and titles of those who conducted and witnessed the tests and those who reviewed and validated the test results, including Government personnel. The Reliability Report shall include but not be limited to a test summary, test description, identification of item(s) under test, lot from which the test sample was taken, lots represented by the sample, test group number, performance requirements, and measured values taken during the test, conclusions, and applicable failed item analysis reports (FIARs). Block 9: Distribution Statement D - Distribution authorized					SFAE-SDR-SMS		Draft	Final		
							1	1		

to the
Department of Defense and DoD contractors only. Reason:
To
protect technical/operational data or information, Oct 01.
Other requests shall be referred to SFAE-SDR-SMS.

15. TOTAL	1	1	

CONTRACT DATA REQUIREMENTS LIST <i>(1 Data Item)</i>						Form Approved OMB No. 0704-0188							
A. CONTRACT LINE ITEM NO. A006		B. EXHIBIT		C. CATEGORY: TDP TM - OTHER - DRPR									
I. SYSTEM/ITEM Omnibus VIII			E. CONTRACT/PR NO. TBD		F. CONTRACTOR TBD								
1. DATA ITEM NO.		2. TITLE OF DATA ITEM Product Drawings and Associated Lists			3. SUBTITLE Provisioning Parts List (PPL)								
4. AUTHORITY (<i>Data Acquisition Document No.</i>)			5. CONTRACT REFERENCE SOW para. 3.5.5.1.1		6. REQUESTING OFFICE SFAE-SDR-SMS								
7. DD 250 REQ LT	9 DIST STATEMENT REQUIRED D	10. FREQUENCY AR		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION b. COPIES							
8. APP CODE N/A		11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16									
16. REMARKS Contractor's format is acceptable. Government requires 30 days for review. Contractor shall incorporate corrections and resubmit within 14 days of receipt of Government comments Block 9: Distribution Statement D - Distribution authorized to the Department of Defense and DoD contractors only. Reason: To protect technical/operational data or information, Oct 01. Other requests shall be referred to SFAE-SDR-SMS.						a. ADDRESSEE		Draft		Final			
						SFAE-SDR-SMS		1		1			
15. TOTAL						1		1					

CONTRACT DATA REQUIREMENTS LIST <i>(1 Data Item)</i>						Form Approved OMB No. 0704-0188		
A. CONTRACT LINE ITEM NO. A007		B. EXHIBIT		C. CATEGORY: TDP TM - OTHER - DRPR				
J. SYSTEM/ITEM Omnibus VIII			E. CONTRACT/PR NO. TBD		F. CONTRACTOR TBD			
1. DATA ITEM NO.	2. TITLE OF DATA ITEM Product Drawings and Associated Lists				3. SUBTITLE Engineering Data for Provisioning (EDFP)			
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW para. 3.5.5.1.2		6. REQUESTING OFFICE SFAE-SDR-SMS			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED D	10. FREQUENCY AR	12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION			
8. APP CODE N/A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		a. ADDRESSEE		b. COPIES	
16. REMARKS Contractor's format is acceptable. Government requires 30 days for review. Contractor shall incorporate corrections and resubmit within 14 days of receipt of Government comments Engineering data for provisioning shall be data necessary to indicate the physical characteristics, location, and function of the item. Block 9: Distribution Statement D - Distribution authorized to the Department of Defense and DoD contractors only. Reason: To protect technical/operational data or information, Oct 01. Other requests shall be referred to SFAE-SDR-SMS.					Draft	Final		
					SFAE-SDR-SMS	1	1	
					15. TOTAL	1	1	

CONTRACT DATA REQUIREMENTS LIST <i>(1 Data Item)</i>						Form Approved OMB No. 0704-0188		
A. CONTRACT LINE ITEM NO. A008		B. EXHIBIT		C. CATEGORY: TDP TM - OTHER - DRPR				
K. SYSTEM/ITEM Omnibus VIII			E. CONTRACT/PR NO. TBD		F. CONTRACTOR TBD			
1. DATA ITEM NO.	2. TITLE OF DATA ITEM Product Drawings and Associated Lists				3. SUBTITLE Engineering Drawings			
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW para. 3.5.6.1		6. REQUIRING OFFICE SFAE-SDR-SMS			
7. DD 250 REQ LT	9. DIST STATEMENT REQU RED D	10. FREQUENCY AR	12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION			
8. APP CODE N/A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		a. ADDRESSEE				Draft
16. REMARKS Contractor's format is acceptable. Final Production Drawings are due 30 days after completion of PCA. Government requires 15 days for review. The contractor shall prepare and submit product drawings and associated lists as Interface Control Drawings at the spare part/assembly level that assure form, fit, and function interchangeability, regardless of hardware supplier, and 100 percent backwards compatibility with previously built systems. The intent is to support spare parts procurement in line with the accepted maintenance concept. Product drawings shall be prepared as interface control drawing (ICD) to the maximum extent possible. Dimensioning and tolerancing shall be IAW ASME Y14.5M-2009 or equivalent. Product drawings are not required below the spare level. The Government does not require the contractor to provide a build-to-print Technical Data Package for any item to be procured. The drawings shall provide sufficient information to enable the procurement of an interchangeable item that duplicates the physical and performance characteristics of the original product, without additional design engineering effort or recourse to the original design activity. Block 9: Distribution Statement D - Distribution authorized to the Department of Defense and DoD contractors only. Reason: To protect technical/operational data or information, Oct 01. Other requests shall be referred to SFAE-SDR-SMS.					b. COPIES	Reg	Repro	
					SFAE-SDR-SMS	1	1	
15. TOTAL					1	1		

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 0704-0188				
A. CONTRACT LINE ITEM NO. A009		B. EXHIBIT		C. CATEGORY: TDP <u> </u> TM - <u> </u> OTHER - <u> </u> NDTI					
L. SYSTEM/ITEM Omnibus VIII		E. CONTRACT/PR NO. TBD		F. CONTRACTOR TBD					
1. DATA ITEM NO.	2. TITLE OF DATA ITEM Test/Inspection Reports			3. SUBTITLE Physical Configuration Audit (PCA) Plan and Report					
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE SOW para. 3.5.6.2		6. REQUIRING OFFICE SFAE-SDR-SMS					
7. DD 250 REQ LT	9. DIST STATEMENT REQU RED D	10. FREQUENCY AR	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION					
8. APP CODE A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	a. ADDRESSEE	b. COPIES		Final			
				Draft	Reg	Repro			
16. REMARKS			SFAE-SDR-SMS	1	1				
<p>The PCA plan shall be submitted 45 days prior to scheduled start of PCA. The PCA Report shall be submitted within 21 days after PCA completion. Contractor format is acceptable.</p> <p>Government requires 14 days for review and approval or comment. Contractor shall incorporate corrections and resubmit within 7 days of receipt of Government comments.</p> <p>When a PCA is required, the contractor shall host and support a PCA of equipment to be delivered under this contract. The PCA shall include all hardware and software developed for this contract and any hardware or software that is to be modified as a result of this contract.</p> <p>The PCA plan shall be approved by the IPPT prior to the commencement of the PCA. The audit shall be conducted on all interface, mating and interconnection dimensions, and shall include a visual inspection of all subcomponents, as a minimum. A destructive audit will not be performed; instruments will inspect only items that can be disassembled without damage. The contractor shall define within their PCA plan the methods and procedures for accomplishing the PCA. In the event that the IPPT finds evidence that the drawings do not adequately represent the equipment design and details of construction, acceptance of the equipment on order may be stopped until corrective action, acceptable to the IPPT, has been accomplished.</p>									

Block 9: Distribution Statement D - Distribution authorized to the Department of Defense and DoD contractors only. Reason: To protect technical/operational data or information, Oct 01. Other requests shall be referred to SFAE-SDR-SMS.			
	15. TOTAL	1	1

CONTRACT DATA REQUIREMENTS LIST <i>(1 Data Item)</i>					<i>Form Approved</i> <i>OMB No. 0704-0188</i>				
A. CONTRACT LINE ITEM NO. A010		B. EXH BIT A		C. CATEGORY: TDP CMAN TM - ____ OTHER -					
M. SYSTEM/ITEM Omnibus VIII			E. CONTRACT/PR NO. TBD		F. CONTRACTOR TBD				
1. DATA ITEM NO.	2. TITLE OF DATA ITEM Engineering Change Proposal (ECP), Value Engineering Change Proposal (VECP), Request for Waiver (RFW), and Request for Deviation (RFD)				3. SUBTITLE				
4. AUTHORITY (<i>Data Acquisition Document No.</i>)			5. CONTRACT REFERENCE SOW paras. 3.5.6.3		6. REQU RING OFFICE SFAE-SDR-SMS				
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED D	10. FREQUENCY AR	12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTR BUTION				
8. APP CODE N/A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		a. ADDRESSEE		b. COPIES		
						Draft	Final		
						Reg	Repro		
16. REMARKS					SFAE-SDR-SMS	1	1		
<p>Contractor's format is acceptable for change documents. Government requires 10 days for review and comment or approval. Contractor shall incorporate comments and resubmit within 5 days of receipt of Government comments.</p> <p>The contractor shall prepare a separate ECP for each engineering change that has its own distinct objective and is against a Government signed-off document.</p> <p>The contractor shall prepare and submit ECPs that shall include appropriate Notices of Revision, Specification Change Notices, and Technical Manual (TM) change pages, as necessary. The contractor shall submit VECPs IAW the value engineering clause of this contract.</p> <p>The contractor shall submit tolerance analysis reports as backup data for all configuration control document submittals. These reports shall be in the contractor's format and shall be included as attachments to the configuration control documents.</p> <p>TM change pages shall be prepared utilizing Government provided documentation as guidelines to maximize common/equivalent content and format. The contractor shall develop and incorporate all graphics, artwork</p>									

<p>(including RPSTL artwork), and new operating and/or maintenance procedures due to design changes. TM change pages shall be furnished as an attachment to the ECP. Validation and verification of TM change pages shall be IAW paragraph 3.5.3.1. For change pages for ETMs, the contractor shall deliver the digital files in both native (editable) format and formatted for final output; (i.e. page/paper oriented), and for on-screen. The authoring/reader software required shall also be delivered as part of the ETM and shall be based upon native standard generalized markup language (SGML) fully compatible with SGML authoring software, interactive authoring and display system (IADS).</p> <p>Electronic submittal of ECPs, VECs, RFDs, and RFWs shall be Microsoft Office 2000 compatible digital files. Delivery shall include merged text and graphics.</p> <p>The contractor shall not incorporate ECPs into production until approved by the Government. Government acceptance of product affected by RFDs and/or RFWs shall stop until such time as the RFD/RFW has been approved by the Government and consideration has been agreed to by the contractor and the Government.</p>				
<p>Block 9: Distribution Statement D - Distribution authorized to the Department of Defense and DoD contractors only. Reason: To</p>				
<p>protect technical/operational data or information, Oct 01. Other requests shall be referred to SFAE-SDR-SMS.</p>	15. TOTAL	1	1	

CONTRACT DATA REQUIREMENTS LIST <i>(1 Data Item)</i>						<i>Form Approved</i> <i>OMB No. 0704-0188</i>	
A. CONTRACT LINE ITEM NO. A011		B. EXHIBIT A		C. CATEGORY: TDP __TM - __OTHER - MISC			
N. SYSTEM/ITEM Omnibus VIII			E. CONTRACT/PR NO.		F. CONTRACTOR		
1. DATA ITEM NO.	2. TITLE OF DATA ITEM Scientific and Technical Reports				3. SUBTITLE Safety Assessment Report (SAR)		
4. AUTHORITY (<i>Data Acquisition Document No.</i>)			5. CONTRACT REFERENCE SOW para. 3.8.7.1		6. REQU RING OFFICE SFAE-SDR-SMS		
7. DD 250 REQ LT	9.DIST STATEMENT REQU RED	10. FREQUENCY AR	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION			
8. APP CODE A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	a. ADDRESSEE		b. COPIES	
					Draft	Final	
						Reg	Repro
16. REMARKS				SFAE-SDR-SMS	1	1	
<p>Prepare SAR in contractor format, addressing items detailed in the SOW.</p> <p>Submit draft via letter of transmittal 120 days after contract</p> <p>Award. Govt. requires 30 days for review/comment/approval.</p> <p>Submit final NLT 30 days after receipt of Government comments or approval.</p> <p>The SAR shall document the safety risk being assumed during operation. The SAR shall identify all safety features of the system, specific controls or precautions to be followed during use, and shall provide verification of compliance to safety requirements identified in this specification. The DRMS Form 1930 will only be required if any new toxic/hazardous materials (or increased quantities of existing toxic materials) are used that could be considered hazardous waste upon disposal of the image intensifier tubes. If there are no new toxic/hazardous materials or no increase in the quantities of existing toxic/hazardous materials utilized in the production of equipment delivered under this contract, the contractor shall notify the Government of this fact in writing. If new toxic/hazardous materials are used or there is an increase in the quantity of existing toxic/hazardous materials utilized, the contractor shall provide the technical information required to complete Part II of the DRMS Form 1930, Hazardous Waste Profile Sheet for each image intensifier tube type. The VISOR</p>							

hazard tracking log shall be attached to the SAR. The SAR shall identify toxic and environmentally unacceptable materials used in the design and production of the systems and components, any possible alternative materials, and recommended actions to eliminate or reduce the use of hazardous materials. The SAR shall address any exposure concerns to personnel during operational or maintenance procedures to include fabrication, transportation, setup and tear down, or resulting from damage to the equipment. The contractor shall identify any material used in the system design that requires disposal as a hazardous waste. Radioactive material shall NOT be utilized in the system design and production without prior approval by the Government. The SAR shall specifically describe control measures taken to ensure that the hardware is free of any radioactive materials, including optical glass and lens coatings.

15. TOTAL	1	1	

J.4 - TEST REQUIREMENTS

The following tables outline the test groups, test frequency, and sampling plans for conformance inspections and 100% unit acceptance tests for each image intensifier assembly and system type being procured under this solicitation. The contractor shall perform inspections and tests for all other spares component assemblies being procured under this solicitation in accordance with the applicable drawings and Quality Assurance Provisions (QAPs). When Initial Production Test (IPT) is required, the contractor shall test to all requirements of the applicable Performance Specification as necessary and agreed to by the IPPT to verify compliance to specification requirements for all characteristics of the product affected by the changes. The contractor shall use these tables for establishment of their Quality Validation Plan (QVP) as called out in paragraph 3.7.2 of this SOW.

Those tests in the following tables that are marked with an “*” shall be performed as pre-tests and post-tests for each test outlined in Group C (Subgroup 2 for image intensifier assemblies and Subgroup 1 for systems) and Group D.

MX-11769 Test Requirements

<i>Test</i>	<i>Requirement</i>	<i>Freq.</i>	<i>Sample</i>
<u>Inspections</u>			
Parts and materials	3.3.2	M	100%
Power supply	3.3.3.1	M	100%
Input faceplate	3.3.3.4	M	100%
Identification and marking *	3.3.6	M	100%
Workmanship *	3.3.7	M	100%
<u>Group A</u>			
Shear distortion	3.3.3.2.1	M	100%
Gross distortion	3.3.3.2.2	M	100%
Image inversion	3.3.3.2.3	M	100%
Chicken wire	3.3.3.2.4	M	100%
Surface finish	3.3.3.2.5	M	100%
Ion barrier film quality	3.3.3.3.1	M	100%
Chrome	3.3.4	M	100%
Photocathode sensitivity	3.4.1	M	100%
EBI *	3.4.2	M	100%
Luminance gain *	3.4.3	M	100%
SNR *	3.4.6	M	100%
Center resolution *	3.4.10.1	M	100%
Peripheral resolution	3.4.10.2	M	100%
High light center resolution	3.4.10.3	M	100%
Screen quality *	3.4.13	M	100%
ESS	3.4.16.1	M	100%
<u>Group B</u>			
Multi-to-multi pattern variation	3.4.7.1	M	Level I, 1.5%
Multi-boundary pattern noise	3.4.7.2	M	Level I, 1.5%
Output brightness uniformity *	3.4.8	M	Level I, 1.5%
<u>Group C</u>			
<u>Subgroup 1</u>			
Halo	3.4.4	M	Level I, 2.5%
BSP	3.4.5	M	Level I, 2.5%
Image alignment	3.4.9	M	Level I, 2.5%
MTF	3.4.11	M	Level I, 2.5%
UCD	3.4.12	M	Level I, 2.5%
Luminance persistence	3.4.14	M	Level I, 2.5%
Veiling glare off-axis	3.4.15	M	Level I, 2.5%
Turn-on/operational stability	3.4.20	M	Level I, 2.5%
<u>Subgroup 2 (Tested in order listed)</u>			
Vibration	3.4.16.2	M	Level S-4, 1.5%
Shock	3.4.16.3	M	Level S-4, 1.5%
Temperature extremes	3.4.16.4	M	Level S-4, 1.5%
Humidity	3.4.16.5	M	Level S-4, 1.5%

<i>Test</i>	<i>Requirement</i>	<i>Freq.</i>	<i>Sample</i>
Group D			
Reliability	3.4.18	M	Five tubes
Storage Life	3.4.19	M	Five tubes
EMI	3.4.17	A	Three tubes

MX-10130 Test Requirements

<i>Test</i>	<i>Requirement</i>	<i>Freq.</i>	<i>Sample</i>
Inspections			
Parts and materials	3.3.2	M	100%
Power supply	3.3.3.1	M	100%
Surface finish	3.3.3.2.4	M	100%
Input faceplate	3.3.3.3	M	100%
Identification and marking *	3.3.4	M	100%
Workmanship *	3.4	M	100%
Group A			
Shear distortion	3.3.3.2.1	M	100%
Gross distortion	3.3.3.2.2	M	100%
Chicken wire	3.3.3.2.3	M	100%
Ion barrier film quality	3.3.3.4	M	100%
Photocathode sensitivity	3.5.1	M	100%
EBI *	3.5.2	M	100%
Luminance gain *	3.5.3	M	100%
SNR *	3.5.6	M	100%
Chrome inspection	3.5.9	M	100%
Center resolution *	3.5.10.1	M	100%
Peripheral resolution	3.5.10.2	M	100%
High light center resolution	3.5.10.3	M	100%
Bright spots *	3.5.13.1	M	100%
Dark spots *	3.5.13.2	M	100%
ESS	3.5.16.1	M	100%
Group B			
Multi-to-multi pattern variation	3.5.7.1	M	Level I, 1.5%
Multi-boundary pattern noise	3.5.7.2	M	Level I, 1.5%
Output brightness uniformity *	3.5.8	M	Level I, 1.5%
Group C			
Subgroup 1			
Halo	3.5.4	M	Level I, 2.5%
BSP	3.5.5	M	Level I, 2.5%
MTF	3.5.11	M	Level I, 2.5%
UCD	3.5.12	M	Level I, 2.5%
Luminance persistence	3.5.14	M	Level I, 2.5%
Veiling glare off-axis	3.5.15	M	Level I, 2.5%
Turn-on/operational stability	3.5.20	M	Level I, 2.5%
Subgroup 2 (Tested in order listed)			
Vibration	3.5.16.2	M	Level S-4, 1.5%
Shock	3.5.16.3	M	Level S-4, 1.5%

<i>Test</i>	<i>Requirement</i>	<i>Freq.</i>	<i>Sample</i>
Temperature extremes	3.5.16.4	M	Level S-4, 1.5%
Humidity	3.5.16.5	M	Level S-4, 1.5%
Group D			
Reliability	3.5.18	M	Five tubes
Storage life	3.5.19	M	Five tubes
EMI	3.5.17	A	Three tubes

AN/PVS-14 Test Requirements

<i>Test</i>	<i>Requirement</i>	<i>Freq.</i>	<i>Sample</i>
Inspections			
Parts and materials	3.3.1, 3.3.2	M	100%
Finishes	3.3.6	M	100%
Workmanship *	3.3.7	M	100%
Marking *	3.3.8	M	100%
Head mount / helmet mount	3.4.1.2	M	100%
Group A			
Electrical/Switch *	3.4.1.1	M	100%
Resolution - Far focus *	3.4.2.4.4.1	M	100%
Resolution - Close focus *	3.4.2.4.4.2	M	100%
Focus adjustment *	3.4.2.4.6	M	100%
Light emitting diode *	3.4.2.4.12	M	100%
LED indicator *	3.4.2.4.13	M	100%
Low voltage indicator *	3.4.2.4.14	M	100%
High light cut-off *	3.4.2.4.16	M	100%
Group B			
Brightness gain *	3.4.2.4.11	M	Level I, 1.5%
Off-axis veiling glare *	3.4.2.4.5	Q	Level S-4, 1.5%
Group C			
Subgroup 1 (Tested in order listed)			
Vibration	3.4.3.9	M	Level S-4, 1.5%
Temperature extremes	3.4.3.1	M	Level S-4, 1.5%
Immersion	3.4.3.4	M	Level S-4, 1.5%
Humidity	3.4.3.3	M	Level S-4, 1.5%
Subgroup 2			
Temperature altitude	3.4.3.2	Q	Level S-4, 1.5%
Weapon shock	3.4.3.12	Q	Level S-4, 1.5%
Group D			
Reliability	3.4.5	Q	Five systems
EMI	3.4.	A	Three systems
Audibility	3.4.2.4.9	A	Three systems

AN/PVS-7 Test Requirements

<i>Test</i>	<i>Requirement</i>	<i>Freq.</i>	<i>Sample</i>
Inspections			
Parts and materials	3.3.1, 3.3.2	M	100%
Finishes	3.3.6	M	100%
Workmanship *	3.3.7	M	100%
Marking *	3.3.8	M	100%
Goggle / Head Mount	3.4.1.3	M	100%
Group A			
Electrical/Switch *	3.4.1.1	M	100%
Interpupillary adjustment *	3.4.1.2	M	100%
Resolution - Far focus *	3.4.2.4.1	M	100%
Resolution - Close focus *	3.4.2.4.2	M	100%
Collimation	3.4.2.5	M	100%
Focus adjustment *	3.4.2.6	M	100%
LED / LED indicator *	3.4.2.8, 3.4.2.9	M	100%
High light cut-off *	3.4.2.10	M	100%
Low voltage indicator *	3.4.2.11	M	100%
Image stability *	3.4.2.14	M	100%
Group B			
Objective torque *	3.3.4.5	M	Level I, 1.5%
Flange focal distance	3.3.4.6	M	Level I, 1.5%
Diopter focus	3.3.4.8	M	Level I, 1.5%
Eyepiece torque *	3.3.4.9	M	Level I, 1.5%
Brightness gain *	3.4.2.7	M	Level I, 1.5%
Veiling glare off-axis *	3.4.2.12	Q	Level S-4, 1.5%
Group C			
Subgroup 1 (Tested in order listed)			
Vibration	3.4.3.4	M	Level S-4, 1.5%
Temperature extremes	3.4.3.1	M	Level S-4, 1.5%
Immersion	3.4.3.8	M	Level S-4, 1.5%
Humidity	3.4.3.3	M	Level S-4, 1.5%
Subgroup 2			
Temperature altitude	3.4.3.2	Q	Level S-4, 1.5%
Group D			
Reliability	3.4.5	B	Five systems
EMI	3.4.4	A	Three systems
Audibility	3.4.2.16	A	Three systems

NOTE:

FREQUENCY

M – Monthly; Q – Quarterly; B – Biannually and A – Annually