

**ELECTRONIC SYSTEMS CENTER  
AIR FORCE MATERIEL COMMAND  
HANSCOM AIR FORCE BASE, MASSACHUSETTS**



**AIR FORCE SUPPORT OF  
MINIMUM ESSENTIAL  
EMERGENCY COMMUNICATIONS  
NETWORK (MEECN) PROGRAM  
SECURITY CLASSIFICATION GUIDE  
1 NOVEMBER 2004**

**THIS GUIDE SUPERSEDES THE AF SUPPORT OF MEECN VLF/LF IMPROVEMENTS PROGRAM  
SECURITY CLASSIFICATION GUIDE, DATED 1 NOVEMBER 1999.**

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**DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS ELECTRONIC SYSTEMS CENTER (AFMC)  
HANSCom AIR FORCE BASE, MASSACHUSETTS 01731-5000**

**FOREWORD**

(U) PURPOSE: The Air Force Support of MEECN Program Security Classification Guide provides basic classification guidance and policy to Air Force agencies, contractors, and other military or Government agencies involved in the Air Force Support of MEECN Programs. As used in this document, MEECN is synonymous to the DoD Strategic Connectivity System (SCS).

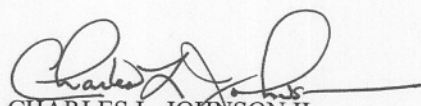
(U) USE: This guide is used to provide a basis for evaluating the degree of security classification that must be assigned to information concerning MEECN projects, documents and correspondence. Any information concerning Air Force Support of MEECN which may be declassified or unclassified according to this guide or past guides must be treated as privileged information and used only in the conduct of official business. This guide should also be used to extend classification on any documents generated under any MEECN developmental efforts.

(U) MEECN DESCRIPTION: MEECN systems provide US Forces with a survivable link for transmission and reception of Emergency Action Messages (EAMs). They include the existing Survivable Low Frequency Communications System (SLFCS), Miniature Receive Terminal (MRT), the Modified Miniature Receive Terminal (MMRT) Very Low Frequency/Low Frequency (VLF/LF) improvement project on the E-4B, and E-6B platforms and the Defense Injection Reception Emergency Action Message (EAM) Command and Control (C2) Terminal (DIRECT), a strategic C2 system directly supporting the Chairman, Joint Chiefs of Staff (CJCS) in the strategic nuclear command centers. MEECN also includes: (1) the Minuteman MEECN Program (MMP) providing Extremely High Frequency (EHF) and Very Low Frequency /Low Frequency (VLF/LF) (eventually Advanced EHF (AEHF)) messaging support for ICBM Launch Control Centers (LCCs) and (2) the Ground Element MEECN System (GEMS) providing secure; survivable inter-site, intra-site and mobile communications using both AEHF and VLF/LF and a system of pagers and klaxons to bomber, tanker, reconnaissance and mobile support teams with strategic responsibilities.

(U) Additionally, Nuclear C2 Technical Performance Criteria requires communications facilities with strategic responsibilities to receive emergency action messages (EAMs) and functions as part of the strategic force. The MEECN Systems Improvement (MSI) program will provide a planning tool to ensure the performance of existing/developing MEECN systems for future upgrades and improvements. MSI will incorporate the MEECN Continuing Evaluation Program (CEP) to support this effort. MSI will also accomplish systems engineering functions for MRT, MMRT and SLFCS.

(U) AUTHORITY: This guide is issued under authority of DOD 5200.1-R/AFI 31-401, Information Security Program Management and Executive Order 12958, as amended.

Approved By:

  
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Lieutenant General, USAF  
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(U) SUMMARY OF CHANGES: This document has been updated to include the addition of applicable 616A Survivable Low Frequency Communications System (SLFCS) Technical Orders, Performance Specifications. Specific guidance regarding the Ground Element MEECN System (GEMS) now in the planning stage has been included. New contact points and distribution list was also added. The AN/URM-204 Radio Set classification was incorrect and has been changed to read UNCLASSIFIED. Added KG-3X Cryptographic Modernization Program section. This document has been revised to reflect the changes in the Information Security Oversight Office (ISOO) Directive No. 1, issued and effective September 22, 2003. The X1 through X8 exemption categories formerly used to exempt information from 10 year declassification can no longer be used. The "Declassify on" line now must include a date or event less than 10 years from the date of the document; or, if unable to identify such a date or event; a date 10 years from the date of the document; or a date greater than 10 and less then 25 years from the date of the document; or a date 25 years from the date of the document.

(U) RELEASE OF PROGRAM DATA ON THE WORLD WIDE WEB. Extreme care must be taken when considering information for release onto publicly accessible or unprotected World Wide Web Sites. In addition to satisfying all of the aforementioned approval provisions, owners and/or releasers of information proposed for such release must ensure that it is not susceptible to compilation with other information to render sensitive or even classified data in the aggregate. The search and data mining capabilities of Web technology must be assessed from a risk management perspective. If there are any doubts, do not release the information!

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SECTION I

**GENERAL INSTRUCTIONS**

1. (U) PURPOSE: To provide instruction and guidance on the classification of information involved in the MEECN Program.
2. (U) OFFICE OF PRIMARY RESPONSIBILITY (OPR): This guide is issued by, and all inquiries regarding content and interpretation should be submitted to:

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3. (U) CLASSIFICATION RECOMMENDATIONS: If the security classification contained in this guide imposes requirements that are impractical; or if current conditions, changes, or progress attained in this effort, scientific, or technological changes in the state-of-the-art, or any other contributory factors indicate a need for changes in this guide, completely documented and justified recommendations should be made through appropriate channels to the OPR. Pending final decision thereon, the items of information involved shall be handled and protected at the higher of the current classifications or the recommended changes. All users of this guide are encouraged to assist in improving and maintaining the currency and adequacy of this guide.
4. (U) APPLICATIONS, REPRODUCTION AND DISSEMINATION: Authority is granted to make reproductions and extracts or selections of portions of this guide for application by specified groups involved in the MEECN Program.
5. (U) CLASSIFICATION CURRENCY: Changes to this guide will be affected by the issuance of a letter, subject: Letter Change Number to the ESC Air Force Support of MEECN Program Security Classification Guide. These letters will indicate the appropriate change(s). Upon receipt of a letter change, the appropriate change(s) will be made and the letter of authority will be inserted in back of the guide.
6. (U) THIRD COUNTRY STATEMENT: (when applicable) (Applicable for NATO and Joint International Programs) "U.S. Government information is furnished upon the condition that it will not be released to another nation without specific authority of the Department of the Air Force of the United States; that individual or corporate rights originating the information will be provided substantially the same degree of security afforded it by the Department of Defense of the United States. Also, regardless of any other markings on the document, it will not be downgraded or declassified without written approval of the originating U.S. agency."
7. (U) FOR OFFICIAL USE ONLY (FOUO): FOUO is not a security classification. Information designated in the remarks column of this guide which warrants FOUO markings will be handled and protected in accordance with AFI 37-131.

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**SECTION I (Cont'd)**

**GENERAL INSTRUCTIONS**

8. (U) SAMPLE DOWNGRADING AND DECLASSIFICATION INSTRUCTIONS:

Derived from: ESC MEECN Sec Class Guide, 1 November 2004

Declassify On: 1 November 14

or

If several sources are given:

Derived From: Multiple Sources \*

List bibliography of sources

Declass On : (Use the declassification instruction from the source document requiring the MOST RESTRICTIVE date (longest period of classification)).

9. (U) OTHER APPLICABLE PUBLICATIONS AND SECURITY GUIDES. The following documents, as supplemented, are to be used for reference, as applicable:

- a. DOD 5220.22-S, COMSEC Supplement to the Industrial Security Manual for Safeguarding Classified Information, March 1988.
- b. AFI 31-601, Industrial Security Program Regulation (Supplements DOD 5220.22R).
- c. ICBM Security Classification Guide, 30 September 1997
- d. MILSTAR System Protection Guide, 15 Oct 98
- e. CJCSI 5222.01, National Military Command System Security Classification Guide (Chairman of the Joint Chiefs of Staff Instruction), dated 19 August 1996
- f. OPNAVINST S5513.6C, Department of the Navy (DON) Security Classification Guidance for Communications and Satellite Programs, 29 December 1989
- g. Aircraft Alerting Communications EMP (AACE) Upgrade program Security Classification Guide, 1 August 1983

**SECTION II**

**RELEASE OF INFORMATION**

1. (U) PUBLIC RELEASE: The fact that this guide shows certain details of information to be unclassified does not allow automatic release of the information. Proposed public disclosures of unclassified information regarding the MEECN Program shall be processed through appropriate channels for approval for publication.
  - a. (U) Any proposed release to the public of official information pertaining to the MEECN Program must be forwarded to the Office of Public Affairs (ESC/PA), Electronic Systems Center, Hanscom AFB, MA 01731-2100, for review and further processing. The term "release" applies, but is not limited to, articles, speeches, photographs, brochures, advertisements, displays, presentations, and so on, on any phase of this program. It is incumbent upon defense contractors, or other agencies, to screen all information submitted by them for material certification to ensure that it is both unclassified and technically accurate. Letters of transmittal shall contain certification to this effect. The number of copies produced, and distribution of the document, must be extremely and strictly controlled until review is completed. If suspected classified information is found during the review process, all holders of the document will be informed of the degree of protection required. When doubt exists concerning the classified status of a proposed release pertaining to this program, ESC/ND, HANSCOM AFB, MA 01731-2120 will render the final decision. The material submitted for review must include a valid suspense date, if applicable. Requests for public release certification, according to DOD Manual 5220.22-M, NISPOM (attachment to DD Form 441, Security Agreement), must be submitted to the ESC/PA for review and further processing. Eight copies of the proposed public release material must be submitted at least six weeks before approval is needed. (For further clarification and guidance on information certification procedures, see AFI 35-101, chapter 15)
  - b. (U) Only information that has been reviewed and certified for public release may be released; however, the decision or authority to release falls within the purview of those officials who have the responsibility to govern the program for which the material has been developed.
  - c. (U) Only information that already has been approved for public release may be released without further recourse. Information developed after initial approval for public release must be submitted for review and further processing as outlined in paragraph 1.a above.
  - d. (U) Approval for public release does not satisfy the export licensing requirements of the Department of State and Commerce. Material that requires an export license will not be entered into security review channels for public release approval in order to circumvent the licensing requirements of the Departments of State and Commerce.
2. (U) RELEASE OF INFORMATION TO FOREIGN GOVERNMENTS, INTERNATIONAL ORGANIZATIONS OR THEIR REPRESENTATIVES:
  - a. (U) Any ESC military activity or defense contractor receiving a request for or proposing to release information on this program will forward such requests/proposals to ESC/INF (Foreign Disclosure Policy Office), after compliance with the following:



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**SECTION II (Cont'd)**

**RELEASE OF INFORMATION**

- b. (U) Military activities will comply with AFI 16-201 - Disclosure of Military Information to Foreign Governments and International Organizations
- c. (U) Defense contractors will comply with the Department of State International Traffic in Arms Regulation (ITAR).

NOTE: (U) Foreign national employees of the contractor or subcontractor(s), including those possessing reciprocal clearances, are not authorized access to classified information resulting from or used in the performance of their contract unless authorized in writing by the Deputy Program Director for Strategic C2 System Program Office, ESC/ND, Hanscom AFB, MA 01731-2120. Prime contractors are responsible for ensuring each of their subcontractors are aware of, and comply with these requirements. Material proposed for release by subcontractors will be routed through their prime contractor.

- d. (U) Any non ESC military activity will forward subject requests/proposals through their command foreign disclosure channels for SAF/IAD release determination. If authorized for release by SAF/IAD, data will be labeled " U.S. and specify (COUNTRY)" only. This statement should appear once on the cover of classified/unclassified documents. The last line of electronic messages should state " U.S and specify (COUNTRY) only.
- 3. (U) RELEASE OF INFORMATION TO UNITED STATES AGENCIES: Requests will be submitted to the Deputy Program Director for Strategic C2 System Program Office, ESC/ND, Hanscom AFB, MA 01731-2120 for coordination and processing.
  - 4. (U) RELEASE OF INFORMATION AT SYMPOSIA, SEMINARS, AND CONFERENCES: Requests for such releases of classified information shall be submitted to the Deputy Program Director for Strategic C2 System Program Office, ESC/ND, Hanscom AFB, MA 01731-2120 for review and approval. Material will be submitted a minimum of six weeks prior to proposed release date in two copies. Any information authorized for release will reflect that the work reported upon is sponsored by the United States Air Force. If foreign nationals are expected to be present at such a conference, the provisions of paragraph 2 above must be complied with.
  - 5. (U) NATO Extracted Information in US Classified and Unclassified Documents" (when applicable) (see AFR 205-43 "Safeguarding NATO Classified Information")
    - a. (U) Identify NATO classified information by applying portion markings to the extracted information. Use these NATO security classifications and abbreviations:
      - (1) (U) COSMIC Top Secret "(CTS)" or (COSMIC-TS)."
      - (2) (U) COSMIC Top Secret ATOMAL "(CTSA)" or "(COSMIC-TSA)."
      - (3) (U) NATO Secret "(NS)" or "(NATO-S)."
      - (4) (U) NATO Secret ATOMAL (NSA)" or "(NATO-SA)."
      - (5) (U) NATO Confidential "(NC)" or "(NATO-C)."

**SECTION II (Cont'd)**

**RELEASE OF INFORMATION**

- (6) (U) NATO Confidential ATOMAL “(NCA)” or “(NATO-CA).”
- (7) (U) NATO Restricted “(NR)” or “(NATO-R).”
- (8) (U) NATO Unclassified “(NU)” or “(NATO-U).”
- b. (U) Apply US classification or unclassified markings only to portions of the document containing US classified information
- c. (U) Show the overall page marking of documents containing NATO extracts with the US classification designation equivalent.
- d. (U) Show the source of classification in the “Classified by” line.
  - (1) (U) If the US document is unclassified, the “Classified by” line identifies the NATO source as the classification authority.
  - (2) (U) If the US document contains both US and NATO classified, the “Derived From” line identifies “Multiple Sources”. List each source of classification on the file record copy of the document. Recommend you include bibliography in all copies released.
- e. (U) Show declassification instructions on the “Declassify on” line for US and NATO material as appropriate.
- f. (U) Enter the notation “THIS DOCUMENT CONTAINS NATO (classification) INFORMATION “ on the face of the document.

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**SECTION III**

**OVERALL EFFORT**

	<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1.	Planning or Programming when not Classified by other Sections	U			
2.	Milestones and Schedules	U			
3.	Manpower Requirements	U			
4.	Logistic Support Plan	U			
5.	Complete Status or Progress of Work Performed on Contracts	U			
					For specific details, see other sections of this guide

## SECTION IV

ACRONYMS, TERMS, ABBREVIATION

AACE	Aircraft Alerting Communications EMP
ACC	Air Combat Command
AFMC	Air Force Materiel Command
(C)	Confidential
C3	Command, Control, and Communications
CCI	Controlled Cryptographic Item
CLASS	Classification
CMI	Cryptographic Modernization Initiative
COMPONENTS	Refers to particular configuration item or equipment peculiar to a MEECN project
COMSEC	Communications Security
CPCI	Computer Program Configuration Item
CPM	Characters Per Minute
DECLASS	Declassification
DOD	Department of Defense
DT&E	Development, Test, and Evaluation
E-4	NAOC Aircraft
EAM	Emergency Action Message
ECM	Electronic Counter Measures
ECCM	Electronic Counter Counter Measures
ECU	End Cryptographic Unit
EHDC	Electronic Hardened Dispersal Communications
EHF	Extremely High Frequency
EMP	Electromagnetic Pulse
ESC	Electronic Systems Center
FOC	Final Operational Capability
FOUO	For Official Use Only
FSBS	Fixed Submarine Broadcast System
GEMS	Ground Element MEECN System
HAC/RMPE	Higher Authority Communications/Rapid Message Processing Element
HIDAR	High Data Rate
ICBM	Intercontinental Ballistic Missile
I-Level	Intermediate Level
IOC	Initial Operational Capability
IOT&E	Initial Operational Test and Evaluation
ISM	Industrial Security Manual (DOD 5220.22-M) (see pg. 2 for update)
KMI	Key management Initiative
MEECN	Minimum Essential Emergency Communications Network
MEP	Minuteman Enhanced Procedures
MMP	Minuteman MEECN Program
MMPM	MEECN Message Processing Mode
MMRT	Modified Miniature Receive Terminal
MPT	Missile Procedure Trainer
MRT	Miniature Receive Terminal
NAOC	National Airborne Operations Center

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**SECTION IV (Cont'd)**

**ACRONYMS, TERMS, ABBREVIATION**

NETWORK	Refers to connectivity and communication compatibility of assets of the VLF/LF/EHF spectrum of the MEECN
NOFORN	Not Releasable to Foreign Nationals
OADR	Originating Agency Determination Required
OPSEC	Operation Security
PROJECT	Refers to Program MEECN contractual efforts or equipments planned, under development or already fielded
RECCE	Reconnaissance
RD	Restricted Data
R&D	Research and Development
RDT&E	Research, Development, Test, and Evaluation
(S)	Secret
SCAMP	Single Channel Anti-Jam Man Portable
SCG	Security Classification Guide
SCS	Strategic Connectivity System
SLFCS	Survivable Low Frequency Communications System
SLVR	Submarine LF/VLF VMEbus Receiver
SPO	System Program Office
SSBN	Strategic Submarine Ballistic Nuclear
SUBSYSTEM	A group of equipment within the SCS such as the MRT
S/V	Survivability/Vulnerability
S/W	Software
SYSTEM	A composite of equipment, skills and techniques capable of performing or supporting an operation role
TCCO	Time Compensated Clock Oscillator
TEMPEST	Transient Electromagnetic Pulse Emanation Suppression Techniques. The study of and/or synonym for unintentional information bearing compromising emanations
TM	Transfer Module
TMLU	Transfer Module Load Unit
TMSS	Transfer Module Service Set
TPI	Two Person Integrity
TPS	Test Program Set
(TS)	Top Secret
TRANSEC	Transmission Security
(U)	Unclassified
VME	Versa Module Eurocard
VMEbus	VME-based commercial Bus Standard
VLF	Very Low Frequency
WNINTEL	Warning Notice: Intelligence Sources or Methods Involved

## SECTION V

GENERAL TOPICS

	<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1.	Meaning of the acronyms "MEECN, SCS, MRT, GEMS" etc.	U			
2.	The fact that MRT, MMRT, & GEMS are part of the MEECN System	U			
3.	The fact that the MEECN, SCS is used to contact SSBN, ICBM and Bomber Forces	U			
4.	The fact that the 487L Sys- tem as modified by the 616A SLFCS Program is considered to be part of MEECN	U			
5.	A generic listing of existing or candidate systems, subsystems or projects sup- ported by the MEECN Program without an accompanying description of their technical or operational limitations, capa- bilities or vulnerabilities	U			

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SECTION VI

ADMINISTRATIVE DATA

	<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1.	Announcement of project related contract award	U			
2.	System, subsystem, project or contract numbers used in conjunction with project titles or nicknames	U			
3.	A complete list of contractors or associate contractors	U			
4.	Relationship between contractor/subcontractor and/or between contractor and Government agencies	U			
5.	Contractor Analytical Model Designations	U			
6.	General Planning, Programming, or Program Status	U			
7.	Management concepts relating to use or allocation of human and fiscal resources	U			
8.	IOCs or FOCs of projects Introduced in support of the MEECN	U			
9.	Specific network or system vulnerabilities specifically conveyed through words, drawings, charts, graphs, matrices, viewgraphs, slides, photographs or other pictorial materials	S	Section 1.4(g) 1 Nov 99	1 Nov 09	

## SECTION VI (Cont'd)

ADMINISTRATIVE DATA

	<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
10.	Total numbers of equipments, rates of delivery or modification installation dates for Validation, Full Scale Development, or Production Phases	U			
11.	If information conveys data on down times of airplanes or missile systems which would indicate overall operational limitations or a reduced mission capability when known at least three months in advance.	S	Section 1.4(g) 1 Nov 99	1 Nov 24	Declassify after installations are complete.
12.	Schedules or milestones for Validation, Full Scale Development, or Production phases	U			
13.	Company Projects Numbers	U			
14.	Contractor/USAF Model - Designations	U			



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**SECTION VI (Cont'd)**

**ADMINISTRATIVE DATA**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
15. Purpose of System and Related VLF/LF Improvements	See Remarks			Unclassified, provided <u>no</u> classified listed elsewhere in this Guide is included and it is free of operational capabilities
16. National Priorities Assigned	U			
17. Identifying Description				
a. Without operational capabilities	U			
b. With operational capabilities	S	Section 1.4(g) 1 Nov 99	1 Nov 09	

## SECTION VII

PLANNING AND PROGRAMMING

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. Planning which depicts over-all existing or proposed system or network connectivity by range, frequency or communications system	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
2. Planning which relates the categories and types of communications systems with enhancement capability being planned if related to current system limitations or capabilities	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
3. Planning which contains technical characteristics or specifications of any ECM or ECCM capabilities planned or existing	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
4. Planning which provides ECCM operational concepts	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
5. Planning which provides jamming-to-signal ratios	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
6. Planning which details network or system operational concepts, quantified performance characteristics or overall system design	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
7. Programming which provides a direct relationship between proposed enhancements and general description of limitations or capabilities	C	Section 1.4(g) 1 Nov 99	1 Nov 09	
8. Programming, Budgeting or Funding data used with project titles with/without identification of detailed funding usage	U			

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SECTION VIII

PERFORMANCE AND CAPABILITIES

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. Potential Specified or Realized Performance Capabilities or Limitations	*			* See Specific Sections of this guide
2. System Accuracy such as Weapon Location, Target Location and Target Tracking Revealing System Capability	C	Section 1.4(g) 1 Nov 99	1 Nov 09	
3. Detection/Location of Jammer Strobes and Azimuths				
a. Identification of Detection/ Location Capability	U			
4. Communications	**			** See below

\*\* COMSEC classification guidance is provided in AFI 33-201. EMSEC classification guidance is provided in AFI 33-203. Only the COMSEC classification guide extracted from and furnished separately is applicable to contractors. If difficulties arise in the application of the above guidance, the contractor should request guidance from the MEECN Program Manager. Likewise, if COMSEC/EMSEC terms not defined in the above guidance are encountered, classification guidance must be requested from the MEECN Program Manager prior to using them in the MEECN Program.

(Please Note:) If the AFI's addressed above do not incorporate the appropriate guidance, coordinate with NSA/CSS, Director, National Security Agency/Chief, Central Security Service, ATTN: Information Policy Staff (I01P1) Fort George G. Meade, MD 20755-6000)

## SECTION IX

SPECIFICATIONS

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. Burn Rate	C	Section 1.4(g) 1 Nov 99	1 Nov 09	
2. Power Requirement	U			
a. When Associated with Advanced Model #	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
3. Chemical Composition	U			

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## SECTION X

VULNERABILITIES AND WEAKNESSES

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. The fact that components will be hardened to nuclear weapon effects	U			
2. System or network functions				
a. S/V information that can reveal operational concepts, plans or options for aircraft or ground systems	S	Section 1.4(a), DOE 1 Nov 99	1 Nov 09	
b. S/V of nuclear and non-nuclear hardened equipment or facilities	S	Section 1.4(e), DOE 1 Nov 99	1 Nov 24	Use appropriate source classification guidance of material dictating more restrictive markings
3. Nuclear criteria environments	S	Section 1.4(e), DOE 1 Nov 99	1 Nov 24	See the NMCC Security Classification Guide, Section VIII or Platform SCG
4. Quantified nuclear parameters, such as EMP or Transient Radiation Effects on Electronics used in MEECN component specifications for design of equipment	S	Section 1.4(e), DOE 1 Nov 99	1 Nov 24	
5. Testing or analysis of components that can be extrapolated to S/V of MEECN equipment to meet specified nuclear parameters	S	Section 1.4(e), DOE 1 Nov 99	1 Nov 24	

## SECTION X (Cont'd)

VULNERABILITIES AND WEAKNESSES

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
6. Analysis results which specify effects of nuclear parameters on assets of the network or system with/without mention of specific nuclear weapons or their parameters	S	Section 1.4(e), DOE 1 Nov 99	1 Nov 24	
7. Hardened Communications Terminal Equip Against the Effects of EMP	S	Section 1.4(c) DoD 1 Nov 99	1 Nov 09	
8. Details of EMP Threat	S-RD	Section 1.4(f), DOE 1 Nov 99	Indefinite	
9. Nuclear Criteria Environments				
a. When System Response Data (Test or Analysis) from which the criteria environment (i.e. amplitude rise time) can be derived.	S-RD	Section 1.4(f), DOE 1 Nov 99	Indefinite	
10. Simulated Nuclear Environments that are used in EMP analysis and test:				
a. When the Relationship of the Simulated Environment "Threat" or Nuclear Criteria is revealed.	S	Section 1.4(f), DOE 1 Nov 99	1 Nov 24	

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**VULNERABILITIES AND WEAKNESSES**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
b. When Relation ship in Para- graph 10a is not revealed.	U			
11. Extrapolation Factors for Relating Simulated Nuclear Environment to the Threat Criteria Environment	S	Section 1.4(f), DOE 1 Nov 99	1 Nov 24	

\* (Please note that questions regarding nuclear environments shall be referred to DOE) Mr. Joe Sinisgalli or Mr. Brian Siebert (Document Declassification Division NN-523) 19901 Germantown Rd. Germantown, MD 20874-1290

## SECTION XI

**FUNDING, PROCUREMENT, AND PRODUCTION**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. Financial Plans by Fiscal Year	U			
2. Individual Contract Cost, Quantities, and Schedules which contain IOC dates	U			
3. Cost, Pricing, or Funding for Power Systems, Subsystems and/or Major Components	U			
4. Delivery Schedules of Subsystems and/or Major Components	U			
5. Data on Parts, Accessories and Equipment Available in the Open Market or Produced for Commercial Use	U			
6. Budget Levels on Total Program, Program Elements and Project	U			



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**SECTION XII**

**ANALYSIS**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. Analysis results of postulated physical or electronic attacks on key nodes, links and paths of the network or system	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
2. Analysis results which provide specific measures of network or system performance in stressed or unstressed environments	S	Section 1.4(g) 1 Nov 99	1 Nov 09	Also see Sections VIII, XIII, XIV, XV
3. Analysis summaries which translate or are based on threat data or translate such data into vulnerabilities as related to the network or system	S	Section 1.4(g) 1 Nov 99	1 Nov 09	Also see Sections VIII, XIII, XIV, XV
4. Analysis summaries which provide a detailed description of the specific applications or methodology of computer modeling and simulations used to analyze the performance of the network under varying degrees of postulated adverse conditions	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
5. Analysis results which provide specific effects of EMP or Transient Radiation Effects on facilities and equipment supporting the network or system with/without reference to specific nuclear weapons or parameters such as yield or fission/fusion ratio	S	Section 1.4(e) 1 Nov 99	1 Nov 24	

## SECTION XIII

OPERATIONAL DATA

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. Normal operating areas of transmitters or Transient Radiation Effects	*		*	*Classification/ downgrading subject to criteria established by Using Commands
2. Network or system performance parameters:				
a. Specific or broad information which can be quantified to define predicted operational performance or capability	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
b. Limitations placed on equipments that significantly affect current operational parameters or mission capability	S	Section 1.4(g) 1 Nov 99	1 Nov 09	Inquire for declassification once limitations are no longer applicable
c. Listing of frequencies, nodes, links or paths with details of message flow	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
d. Network, system or project listing of message handling performance expressed in quantified terms such as time, probability of message acquisition and demonstrated/analyzed range versus character error rate	S	Section 1.4(g) 1 Nov 99	1 Nov 09	

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**SECTION XIII (Cont'd)**

**OPERATIONAL DATA**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
e. Incompatibility or interoperability problems which result in significant performance degradations and actions needed to overcome them	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
f. Identification and operational scenarios of critical C3 assets needed to maintain connectivity between the President/SECDEF and Forces during trans and post attach periods	S	Section 1.4(g) 1 Nov 99	1 Nov 09	Use appropriate source classifications guidance if material dictates more restrictive markings
g. Susceptibility or vulnerability of MEECN/SCS communication assets to the threat of physical attack (including sabotage), electronic attacks or nuclear effects	S	Section 1.4(g) 1 Nov 99	1 Nov 09	Use appropriate source classification guidance if material dictates more restrictive markings
h. Susceptibility of the information carried to threats of alteration, sabotage, interception and intelligence exploitation	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
i. System Range/Vertical Effective Radiated Power	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
j. Operational reliability expressed in words or probabilities	S	Section 1.4(g) 1 Nov 99	1 Nov 09	Specified reliability of individual equipment or components is unclassified when not limiting operational reliability

**SECTION XIII (Cont'd)****OPERATIONAL DATA**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
3. Operational concepts for ECCM operations in support of the network or system	S	Section 1.4(g) 1 Nov 99	1 Nov 09	Classify accordingly if more restrictive markings are required by applicable Performance or Requirements Specifications
4. Equipment performance:				
a. Single or multiple listings of network wartime operational frequencies	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
b. Transmitting Power	U			
c. Tuning Range	U			
d. Emission Bandwidth	U			

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## SECTION XIV

**RESEARCH AND DEVELOPMENT**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. Information that reflects significant gains in technology applicable to future or ongoing MEECN/SCS projects	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
2. Specific quantified network performance objectives and criteria in words	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
3. Geographic coverage plots, maps or details that show limitations of network or system capabilities in a given electromagnetic environment	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
4. Specific limitations, capabilities, vulnerabilities of the network or system to physical or electronic attack	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
5. Network or subnetwork description of message flow as a function of time	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
6. Quantified or quantifiable performance parameters of single paths from NMCS to Forces	S	Section 1.4(g) 1 Nov 99	1 Nov 09	Also see Section XIII 2.d.
7. System timing requirements	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
8. COMSEC information contained in specifications, TOs, documents or extracts	S	Section 1.4(g) 1 Nov 99	1 Nov 09	

## SECTION XIV (Cont'd)

RESEARCH AND DEVELOPMENT

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
9. OPSEC measures and procedures	U			Contractors shall comply with DOD 5220.22-M (or its replacement)
10. MEECN Modes of Operation:				
a. Number of Modes	U			
b. Relating a specific MEECN Mode number to its defining parameters	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
c. Relating a specific mode number to its operational usage	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
d. Parameters of MEECN Normal Modes	U			Classified accordingly, if associated with COMSEC information
e. Parameters of MEECN Special Modes:				
(1) Chip Rates	U			
(2) Information Rates	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
(3) Character Rates	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
(4) Data Rates (CPM)	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
(5) Coding Algorithms	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
11. Processing gain in jammed or stressed environments	S	Section 1.4(g) 1 Nov 99	1 Nov 09	

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**RESEARCH AND DEVELOPMENT**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
12. Synchronization Characteristics	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
13. Automatic Search Modes and Transmission Sequences				
a. Mode sequence and number of copies transmitted	U			
b. Relating a specific mode number to its character limit where this determines mode transmission sequence	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
14. Anti-Jam (ECCM) Parameters				
a. The fact that the System has an anti-jam capability	U			
b. Verified jammer parameters or capabilities	S	Section 1.4(g) 1 Nov 99	1 Nov 09	Contact MEECN POC on page 1 to see Appendix I, Spec. No. ESD-616A-84-1, 15 May 85.
c. Anti-Jam theoretical capabilities or modeled performance characteristics	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
d. Technical Specifications	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
15. Doppler Performance				
a. Time Tracking	S	Section 1.4(g)	1 Nov 09	
b. Frequency and Phase Tracking	S	Section 1.4(g)	1 Nov 09	

**SECTION XIV (Cont'd)****RESEARCH AND DEVELOPMENT**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
16. Training course materials, T.O. or T.O. extracts	***		***	***Information presented shall be classified according to the requirements of this guide
17. Maintenance procedure	****		****	****Protect as required to safeguard COMSEC components
18. R&D Program Objective	U			
19. System Characteristics:				
a. Size, Weight Shape	U			
20. Flight, Ground,	See Remarks			Classification will be made on a mission-by- mission basis depending on the sensitivity of the test activity or in Plant Tests
21. Avionics Test	See Remarks			Classify IAW guidance in Sections V through XV



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## SECTION XV

TEST AND EVALUATION

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. Test philosophy or non-quantified test objectives	See Remarks			Unclassified, provided no classified material referenced elsewhere in this Guide is revealed
2. Generalized test schedules or procedures which do not associate links, nodes or message flow of the network	U			
3. Airborne and ground based communications equipment under test, test procedures or test results	U			Classify when given test procedures or results can be used to determine or predict operational parameters which are classified. (See Sections XIII and XIV)
4. Test Schedules:				
a. DT&E In-Plant	U			
b. DT&E/IOT&E Flight Tests	U			
c. Other IOT&E Tests	U			

## SECTION XV (Cont'd)

**TEST AND EVALUATION**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
5. Test results which identify project weaknesses, vulnerabilities, interoperability deficiencies or operational performance parameters with respect to the system or network	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
6. Test results and associated analysis detailing message handling performance or link integrity	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
7. Testing to simulate contract environmental specifications (except S/V)	U			Unclassified provided information included is not in conflict with Section XV, Topic 8
8. Performance Testing:				
a. Range testing or results detailing limitations or capabilities when simulating jammed environments	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
b. Range testing or results that can indicate aerial positioning of C3 assets or airplane weapon systems to maintain connectivity	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
c. Test objectives related with system or network requirements and capabilities	S	Section 1.4(g) 1 Nov 99	1 Nov 09	

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TEST AND EVALUATION

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
d. Evaluations of test data showing types or analysis of failures that lead to operational limitations or document significant performance degradation	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
e. TEMPEST or COMSEC	*		*	*Classify according to contract specifications and label according to AFI 33-201
f. Nuclear effects testing or stressed mode	S	Section 1.4(e) 1 Nov 99	1 Nov 24	Also see Sections X and XII. Not applicable to the MODEM
g. Test Frequencies	U			
9. The fact that the military demonstration tests are intended to delineate operational utility	U			
10. Communications Test Facility Configurations	See Remarks			Unclassified, unless components specified herein as classified are contained in such facilities

**SECTION XVI****HARDWARE**

<u>TOPIC</u>	<u>REMARKS</u>
1. The MEECN Program is comprised of the following projects:	
a. Miniature Receive Terminal (MRT)	See APPENDIX A
b. Modified Miniature Receive Terminal (MMRT)	See APPENDIX B
c. 616A SLFCS Modulator/Demodulator Sets	See APPENDIX C
d. Defense Injection Reception Emergency Action Message (EAM) Command and Control (C2) Terminal (DIRECT)	See APPENDIX D
d. Minuteman MEECN Program (MMP)	See APPENDIX E
f. Ground Element MEECN System (GEMS)	See APPENDIX F
g. KG-3X Crypto Modernization Program	See APPENDIX G

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**REASONS FOR CLASSIFYING**

To be eligible for classification, information must fall within one or more of the categories of information listed in section 1.4 of the Executive Order 12958, as amended:

- a. Military plans, weapons systems, or operations
- b. Foreign government information
- c. Intelligence activities (including special activities), intelligence sources or methods, or cryptology
- d. Foreign relations or foreign activities of the United States, including confidential sources.
- e. Scientific, technological, or economic matters relating to the national security, which includes f.
- f. defense against transnational terrorism.
- g. United States Government programs for safeguarding nuclear materials or facilities
- h. Vulnerabilities or capabilities of systems, installations, infrastructures, projects, plans, or protection
- i. services relating to National Security, which includes defense against transnational terrorism.
- j. Weapons of mass destruction.

**DISTRIBUTION STATEMENTS AND THEIR CORRESPONDING REASONS FOR USE**

"REASON"	STATEMENT					
	B	C	D	E	F	X
ADMINISTRATIVE OR OPERATIONAL USE. To protect technical or operational data or information from automatic dissemination under the international exchange program or by other means. This protection covers publications required solely for official use or strictly for administrative or operational purposes. This statement may be applied to manuals, pamphlets, technical orders, technical reports, and other publications containing valuable technical or operational data.	X	X	X	X		
CONTRACTOR PERFORMANCE EVALUATION. To protect information in management reviews, records of contractor performance evaluation, or other advisory documents evaluating programs of contractors.	X			X		
CRITICAL TECHNOLOGY. To protect information and technical data that advance current technology or describe new technology in an area of significant or potentially significant military application or that relate to a specific military deficiency of a potential adversary. Information of this type may be classified or unclassified; when unclassified, it is export controlled and subject to the provisions of DoD Directive 5230.25.	X	X	X	X		
DIRECT MILITARY SUPPORT. The document contains export-controlled technical data of such military significance that release for purposes other than direct support may jeopardize an important technological or operational US military advantage. Designation of such data is made by competent authority in accordance with DoDD 5230.25.				X		
FOREIGN GOVERNMENT INFORMATION. To protect and limit distribution in accordance with the desires of the foreign government that furnished the technical information. Information of this type normally is classified at CONFIDENTIAL or higher in accordance with DoD 5200.1-R	X	X	X	X		
PREMATURE DISSEMINATION. To protect patent able information on systems or processes in the developmental or concept stage from premature dissemination.	X			X		
PROPRIETARY INFORMATION. To protect information not owned by the US Government and protected by a contractor's "limited rights" statement, or received with the understanding that it not be routinely transmitted outside the US Government.	X			X		
SOFTWARE DOCUMENTATION. Releasable only in accordance with DoDI 7930.2.	X	X	X	X		

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TEST AND EVALUATION. To protect results of test and evaluation of commercial products or military hardware when such disclosure may cause unfair advantage or disadvantage to the manufacturer of the product.	X			X		
SPECIFIC AUTHORITY. To protect information not specifically included in the above reasons and discussions but which requires protection in accordance with valid documented authority such as Executive Orders, classification guidelines, DoD or DoD-component regulatory documents. When filling in the reason, cite "specific authority (identification of valid documented authority)."	X	X	X	X	X	

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**APPENDIX A**

**MINIATURE RECEIVE TERMINAL (MRT)**

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### **FOREWORD**

(U) DESCRIPTION: The Miniature Receive Terminal (MRT) is a Very Low Frequency/Low Frequency (VLF/LF) (14-60kHz) receiver system which provides the capability for B-52H strategic bombers to reliably receive, process and print secure and non-secure VLF/LF communications at extended ranges in nuclear and/or jammed environments.

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SECTION I

MRT SYSTEM HARDWARE

1. (U) The MRT System consists of an Airborne Segment and a Ground Segment. The units making up these Segments and their classifications are as follows.

<u>NOMENCLATURE</u>	<u>EQUIPMENT</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
<u>Airborne Segment</u>					
AN/ARR-85(V)	Receiving Set Radio	C	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	Contains two Confidential EPROMs on Exec. Memory Storage Card
<u>Includes:</u>					
C-11784(V)1/ARR-85(V)	Remote Control Unit	U			
RP-346/ARR-85(V)	Printer	U			
R-2348/ARR-85(V)	Receiver, Radio	C	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	Contains two Confidential EPROMs on Exec. Memory Storage Card
KGV-61/TSEC	Transfer Module	*	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	<b>*Unloaded:</b> S, contains Key Generation Logic <b>Loaded:</b> TS-COMSEC, contains Cryptovables, Frequency & Parameter Information. Does not require TPI handling when keyed with USKAT-4900 series keylist. However, TPI controls do apply for TS key in hard form (i.e. punched paper tape) and during initial keying/rekeying of the KGV-61.

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**MRT SYSTEM HARDWARE** (Cont'd)

<u>NOMENCLATURE</u>	<u>EQUIPMENT</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
AS-3857/ARR-85(V)	Antenna, TE	U			
AS-3858/ARR-85(V)	Antenna, TM	U			
<u>Ground Segment</u>					
AN/FYQ-116	TMSS (Fixed)	*		**	*With no TMs installed: U; With unloaded TM(s) installed: S; With loaded (Cryptovariables & Mission Parameters) TM(s) installed; TS-COMSEC. Does not require TPI handling when keyed with USKAT-4900 series keylist. However, TPI controls do apply for TS key in hard form (i.e. punched paper tape) and during initial keying/rekeying of the KGV-61. Reason & Date, Sect 1.4(c), NSA. 1 Nov 99.
or AN/TYQ-41	TMSS (Transportable)	*		**	
					**When classified, declassify on 1 Nov 24

Includes:

C-11900/U	Control Indicator	U		
J-4636/U	Information Transfer Unit	U		
CP-1846/U	Processor Unit	U		
CA-18/FYQ-116	TMLU (9-Slot)	*		**
CA-19/TYQ-41	TMLU (3-Slot)	*		**

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SECTION II

MRT SYSTEM SOFTWARE/FIRMWARE

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. MPPM	*		*	*See MPPM Program Performance Specification (MPPM Mode Standards) for further guidance. Contact MEECN SCG POC on page 1.
a. Operational Concepts	S	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	
b. Specific message processing criteria expressed quantitatively in terms of time or accuracy and receipt acceptance with associated possibilities	S	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	
c. Specific message format or structure	S	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	
d. Interface Requirements	C	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	
e. Information revealing detailed specifics and techniques of performing MPPM functions	S	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	
f. Information revealing detailed specifics offered by MPPM to overcome network vulnerabilities or limitations	S	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	

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**MRT SYSTEM SOFTWARE/FIRMWARE (Cont'd)**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
2. Executive Processor CPCI:				
Part One, Software - firmware, magnetic tapes, printouts, etc. developed to meet performance requirements of the MRT when the Part Two (below) data is not present.	U			Also see Sections XII, XIII, and XIV. Information shall be classified according to the highest classification of the contained algorithms or routines.
Part Two, MMPM database – software firmware, magnetic tapes, printouts, etc.	C	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
3. SP Software, firmware, magnetic tapes, printouts, etc. developed to meet performance requirements of the MRT.	U			
4. MRT CPCIs				
TM	S	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	
TCCO	U			
Printer	U			
TMSS Operational	U			
TMSS BOOT/BIT	U			
TMSS TM Load Unit	U			
TMSS I-Level Maintenance	U			
TCP-11/TM SRU Fault Isolation	U			
Developmental Support S/W	U			
D-Level COMSEC TPS	U			
D-Level Non-COMSEC TPS	U			
Exercise Unit	U			
Parameterization Data Base	S	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	

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**SECTION III**

**DOCUMENTATION**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. Equipment Configuration	U			Classify accordingly if revealing information in Section X, Vulnerabilities and Weaknesses
2. Pictures, layouts or drawings showing external views of equipment	U			Classify accordingly if revealing information in Section X, Vulnerabilities and Weaknesses
3. System timing requirements or methods of time setting	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
4. Details for interface or design of cryptographic and COMSEC components	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	Contact MEECN POC on page 1 to see the classified Appendix I Spec. # ESD-616A-84-1, 15 May 85.



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SECTION IV

MRT FACILITIES AND SUPPORT EQUIPMENT

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. Nomenclature list of project Support Equipment	U			
2. Type, quantity and configuration of ground or airborne interfaces or tie-ins	U			Unless classification is required by the security guide of the interfacing system
3. Classified GFE Equipment/ Material:				
a. Test Key Material, KMT-4006	C-NOFORN	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
b. Key Fill Devices				
(1) KOI-18	CCI-NOFORN	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
(2) AN/CYZ-10	CCI-NOFORN	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
c. Documentation/Manuals				
(1) KAM-237C/TSEC	C-NOFORN	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
(2) KAG-30A/TSEC	S-NOFORN	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
(3) CSED-11	C-NOFORN	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
(4) MRT System Specification, Appendix I	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	

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**MODIFIED MINIATURE RECEIVE TERMINAL (MMRT)**

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### **FOREWORD**

(U) DESCRIPTION: The Modified Miniature Receive Terminal (MMRT) is a Very Low Frequency/Low Frequency (VLF/LF) (14-60kHz) receiver system which provides the capability for E-4B, E-6B strategic aircraft, to reliably receive, amplify, demodulate, decrypt, process, and output secure and non-secure messages originating from the NCA, USSTRATCOM, and the MEECN. These messages are propagated at VLF/LF frequencies, allowing communications of extended ranges in nuclear and/or jammed environments.

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SECTION I

MMRT HARDWARE

1. (U) The MMRT consists of a receiver with a plug-in Cryptologic Generator. The units making up the MMRT and their classifications are as follows.

<u>NOMENCLATURE</u>	<u>EQUIPMENT</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
AN/ARR-88(V)(C)	Receiving Set, Radio	S	Sec 1.4(c), NSA 1 Nov 99	1 Nov 24	
<u>Includes:</u>					
R-2348/ARR-88(V)(C)	Radio Receiver	S	Sec 1.4(c), NSA 1 Nov 99	1 Nov 24	
CU-2583/ARR-88(V)(C)	Coupler, Antenna	U			
C-12610/ARR-88(V)(C)	Control, Radio Set	U			
SB-4407/ARR-88(V)(C)	Panel, Power Distribution	U			
N/A	Display/Keyboard Unit	U			
CN-1705/ARR-88(V)1(C)	Attenuator, Fixed	U			
KGv-61A/TSEC	Transfer Module	*	*	*	<b>*Unloaded:</b> S, contains Key Generation Logic <b>Loaded:</b> TS- COMSEC, contains Cryptovariables. Does not require TPI handling when keyed with USKAT-4900 series keylist. However, TPI controls do apply for TS key in hard form (i.e. punched paper tape) and during initial keying/rekeying of the KGv-61A. Secret Frequency & Parameter Information may be loaded here or in a Control Device. Reason & Date, Section 1.4(c), NSA, 1 Nov 99, If loaded, declassify on 1 Nov 24.

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MMRT SYSTEM HARDWARE (Cont'd)

<u>NOMENCLATURE</u>	<u>EQUIPMENT</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
<u>E-4B MMRT System</u>					
AN/ARR-88(V)1 (C)	Receiving Set, Radio	S	Sect. 1.4(c), NSA	1 Nov 24 1 Nov 99	
<u>Includes in Addition to MMRT:</u>					
R-2348/ARR-88(V)(C)	Radio Receiver	S	Sect 1.4(c), NSA	1 Nov 24 1 Nov 99	
CU-2583/ARR-88(V)1 (C)	Coupler, Antenna	U			
C-12610/ARR-88(V)1 (C)	Control, Radio Set	U			
SB-4407/ARR-88(V)1 (C)	Panel, Power Distribution	U			
N/A	Display/Keyboard Unit	U			
CN-1705/ARR-88(V)1 (C)	Attenuator, Fixed	U			
AS-1909/ARC-96	Receive Antenna	U			
OE-329/ARC-96	Antenna Group	U			
KGV-61A/TSEC	Transfer Module	**	**	**	<b>**Unloaded: S,</b> contains Key Generation Logic <b>Loaded: TS-</b> COMSEC, contains Cryptovariabls. Does not require TPI handling when keyed with USKAT-4900 series keylist. However, TPI controls do apply for TS key in hard form (i.e. punched paper tape) and during initial keying/ rekeying of the KGV-61A. Secret Frequency & Parameter Information may be loaded here or in a Control Device. Reason & date, section 1.4(c), NSA, 1 Nov 99. If loaded, declassify on 1 Nov 24.

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MMRT SYSTEM HARDWARE (Cont'd)

<u>NOMENCLATURE</u>	<u>EQUIPMENT</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
<u>E-6B MMRT System:</u>					
AN/ARR-88(V)2 (C)	Receiving Set, Radio	S	Sect. 1.4(c), NSA 1 Nov 99	1 Nov 24	
<u>Includes in Addition to MMRT:</u>					
R-2348/ARR-88(V)(C)	Radio Receiver	S	Sect. 1.4(c), NSA 1 Nov 99	1 Nov 24	
N/A	Display/Keyboard Unit	U			
KGV-61A/TSEC	Transfer Module	***	***	***	*** <b>Unloaded:</b> S, contains Key Generation Logic <b>Loaded:</b> TS- COMSEC, contains Cryptovariables. Does not require TPI handling when keyed with USKAT-4900 series keylist. However, TPI controls do apply for TS key in hard form (i.e. punched paper tape) and during initial keying/ rekeying of the KGV-61A. Secret Frequency & Parameter Information may be loaded here or in a Control Device. Reason & date, section 1.4(c), NSA, 1 Nov 99. If loaded, declassify on 1 Nov 24.



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**SECTION II**

**MMRT SOFTWARE/FIRMWARE**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. MPPM	*			*See MPPM Program Performance Specification (MPPM Mode Standards) for further guidance. Contact MEECN SCG POC on page 1.
a. Operational Concepts	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
b. Specific message processing criteria expressed quantitatively in terms of time or accuracy and receipt acceptance with associated possibilities	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
c. Specific message format or structure	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
d. Interface Requirements	C	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
e. Information revealing detailed specifics and techniques of performing MPPM functions	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
f. Information revealing detailed specifics offered by MPPM to overcome network vulnerabilities or limitations	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	

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**MMRT SOFTWARE/FIRMWARE** (Cont'd)

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
2. Executive Processor CPCI:				
Part One, Software - firmware, magnetic tapes, printouts, etc. developed to meet performance requirements of the MMRT when the Part Two (below) data is not present.	U			Also see Sections XII, XIII, and XIV. Information shall be classified according to the highest classification of the contained algorithms or routines.
Part Two, MMPM database – software firmware, magnetic tapes, printouts, etc.	C	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
3. IP & SP Software, firmware, magnetic tapes, printouts, etc. developed to meet performance requirements of the MMRT.	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	Also see Sections XII, XIII, and XIV. Information shall be classified according to the highest classification of the contained algorithms or routines.
4. MMRT CSCIs:				
Receiver	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
COMSEC (in KGV-61A)	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
Control Device (SRCU)	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	Unclassified when flash drive removed & laptop powered off.
Parameterization (in SRCU)	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	

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<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. Equipment Configuration	U			Classify accordingly if revealing information in Section X, Vulnerabilities and Weaknesses
2. Pictures, layouts or drawings showing external views of equipment	U			Classify accordingly if revealing information in Section X, Vulnerabilities and Weaknesses
3. System timing requirements or methods of time setting	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
4. Details for interface or design of cryptographic and COMSEC components	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	Contact MEECN POC on page 1 to see the classified Appendix I Spec. # ESD-616A-84-1, 15 May 85.

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SECTION IV

**MMRT FACILITIES AND SUPPORT EQUIPMENT**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. Nomenclature list of project Support Equipment	U			
2. Type, quantity and configuration of ground or airborne interfaces or tie-ins.	U			Unless classification is required by the security guide of the interfacing system
3. Classified GFE Equipment/ Material:				
a. Test Key Material, KMT-4006	C-NOFORN	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	
b. Key Fill Devices				
(1) KOI-18	CCI-NOFORN	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	
(2) Data Transfer Device	CCI-NOFORN	Sect 1.4(c), NSA	1 Nov 24	
c. Documentation/Manuals				
(1) KAM-237C/TSEC	C-NOFORN	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	
(2) KAG-30A/TSEC	S-NOFORN	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	
(3) CSED-11	C-NOFORN	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	
(4) MMRT System Specification, Appendix I	S	Sect 1.4(c), NSA 1 Nov 99	1 Nov 24	

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APPENDIX C

**616A SURVIVABLE LOW FREQUENCY COMMUNICATIONS SYSTEM (SLFCS)**  
**MODULATOR/DEMODULATOR SETS**

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**APPENDIX C**

**616A SLFCS MODULATOR/DEMODULATOR SETS PROJECT**

**FOREWORD**

(U) DESCRIPTION: The 616A SLFCS MODULATOR/DEMODULATOR SETS project replaced the original 487L Modulators and Demodulators with equipment of improved design, reliability and supportability. Implementation of the new design required development of associated control, timing and power units. Two items of support equipment were also developed.

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APPENDIX C

SECTION I

**616A SLFCS MODULATOR/DEMODULATOR SETS PROJECT HARDWARE**

1. (U) The SLFCS Project consists of Ground and Airborne Modulators and Demodulators together with associated control units, power supplies and system clocks.

<u>NOMENCLATURE</u>	<u>EQUIPMENT</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
<u>Airborne Segment</u>					
MD-916A	Modulator Converter	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
MD-917/A	Demodulator	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
TD-1106/A	Program Clock	U			
<u>Ground Segment</u>					
MD-914/F	Modulator Converter	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
MD-915/F	Demodulator	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
TD-1105/F	Program Clock	U			
<u>Transmit Segment</u>					
C-9424/A	Transmitter Control	U			
<u>Receive Segment</u>					
C-9423/A	Receiver Control	U			
<u>Power Segment</u>					
PP-6978/F	Power Supply	U			
PP-6977/F	Power Supply	U			

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**SECTION II**

**616A SLFCS MODULATOR/DEMODULATOR SETS PROJECT SOFTWARE/FIRMWARE**

NONE

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**DOCUMENTATION**

	<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1.	Equipment Configuration	U			
2.	Pictures, layouts or drawings showing external views of equipment	U			
3.	System timing requirements or methods of time setting	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
4.	Details for interface or design of cryptographic and COMSEC components	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	Contact MEECN POC on page 1 to see the classified Appendix I Spec. # ESD-616A-84-1, 15 May 85.
5.	31R2-2A-102 Modulator-Data Converter MD-916/A	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
6.	31R2-2A-112 Demodulator MD-917/A	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
7.	31R2-2A-114 Demodulator MD-917/A	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
8.	31R2-2A-121 WWABNCP 487L/616A VLF/LF Modem System	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
9.	31R2-2F-202 Demodulator MD-915/F	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
10.	31R2-2FRR98-1 Radio Receiver-Teletypewriter Set AN/FRR-98	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
11.	31Z3-628-1 Radio-Receiver Transmitter Set AN/FRC-117	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
12.	33D7-38-98-1 Electronic Systems Test Set AN/URM-202	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	

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13. 33D7-71-34-1 Radio Test Set AN/URM-204	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
14. 31Z3-628-2-1 Radio-Receiver	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
15. 31Z3-628-2 Radio-Receiver Transmitter Set AN/FRC-117	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
16. Performance Specification for the SLFCS-487L	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
17. Critical Item Development Specification for Demodulator MD-915/F	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
18. Critical Item Development Specification for Demodulator MD-917/A	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
19. Critical Item Development Specification for Modulator Data Converter MD-916/A	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	

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**616A SLFCS MODULATOR/DEMODULATOR SETS PROJECT**  
**FACILITIES AND SUPPORT EQUIPMENT**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. Peculiar Support Equipment				
a. AN/URM-202 (U), Electronic System Test Set	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
b. AN/URM-204 (U), Radio Test Set	U			

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**APPENDIX D**

**DEFENSE INJECTION RECEPTION EMERGENCY ACTION MESSAGE (EAM) COMMAND AND  
CONTROL (C2) TERMINAL (DIRECT)**

(U) DIRECT uses the NMCS Security Classification Guide and Appendix 1 to Vol I Emergency Action Procedures of the JCS. A new separate Security Classification Guide for DIRECT is inappropriate and will not be added.

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**APPENDIX E**

**MINUTEMAN MEECN PROGRAM (MMP)**

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## **APPENDIX E**

### **MINUTEMAN MEECN PROGRAM (MMP)**

#### **FOREWORD**

1. (U) This appendix will address security guidelines for the MMP as installed in the ICBM Launch Control Centers (LCC). MMP is in the Production Phase and will be utilizing the Spiral Development Process.

(U) DESCRIPTION: The MINUTEMAN MEECN PROGRAM (MMP) will integrate an EHF, VLF/LF communications capability into the Minuteman (MM) ICBM Launch Control Centers (LCC). As the newest link in the Minimum Essential Emergency Communications Network MEECN, this effort will provide the LCCs with the ability to receive Emergency Action Messages (EAM) in the EHF and VLF/LF spectrum and send force report back messages over EHF for the MM LCCs, this will include integration into the Higher Authority Communications/Rapid Message Processing Element (HAC/RMPE) processor. This program will also consist of Missile Procedure Trainers (MPT) and Minuteman Enhanced Procedures (MEP) as well as development/maintenance systems.

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**MINUTEMAN MEECN PROGRAM (MMP)**

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**SECTION 1**

**MMP SYSTEM HARDWARE**

1. (U) The proposed MMP System consists of an existing Milstar product line for the EHF Radio and a Hard EHF Antenna and the reuse of Government investment into the modern Submarine LF/VLF Versa Module Eurocard (VME) Receiver (SLVR) and antenna. The MMP will integrate an EHF, VLF/LF communications capability into the Minuteman (MM)) ICBM Launch Control Centers (LCC).

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
Terminal Electronics Unit with CDH Card	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	CCI (Zeroized)
Removable Flash Card	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
Submarine LF/VLF Versa Module Eurocard (VME) Receiver (SLVR)	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
EHF Antenna Group	U			Includes the Solid State Antenna
Electronic Surge Arrestor Assemblies	U			
VLF Antenna	U			
KOV	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
KIV-7 (Loaded)	TS	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	CCI (Zeroized)
KGV-11 (Loaded)	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	CCI (Zeroized)
AC/DC Converter	U			
Fill Device	CCI-NOFORN	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
Rubidium Oscillator Frequency Standard	U			

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SECTION II

MMP SYSTEM SOFTWARE/FIRMWARE

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. MMPM, HIDAR, Milstar EHF				
a. Operational Concepts	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	Revealing detailed content of Strategic Nuclear Procedures.
b. Specific message pro- cessing criteria ex- pressed quantitatively in terms of time or ac- curacy and receipt ac- ceptance with associated possibilities	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	Message throughput rates and false message rates are secret
c. Specific message format or structure	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	Detailed format, range of values, or function of specific EAMs can be TS. Refer to ICBM SCG.
d. Interface Requirements	U			
e. Milstar Terminal Interface SR-2300 and SR-1135 Documents	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
f. Information revealing detailed specifics and techniques of perform- ing MMPM functions	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
g. Information revealing detailed specifics offered by MMPM to overcome network vul- nerabilities or limitations	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	

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**MMP SYSTEM SOFTWARE/FIRMWARE (Cont'd)**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
2. Software, firmware, magnetic tapes, printouts, etc. developed to meet performance requirements of the MMP.	***	***	***	Also see Section XII, XIII, and XIV. Information shall be classified according to the highest classification of the algorithms or routines.
3. MMP CSCIs				
EHF Terminal Control Software (TCS) CSCI 0019101, Source Code	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	Executable is unclassified
EHF Message Processing Software CSCI 0019102, Source Code	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	Executable is unclassified
EHF Modem Control Software CSCI 0019103, Source Code	U			Executable is unclassified
EHF Antenna Point Control Unit (APCU) CSCI 0019104, Source Code	U			Executable is unclassified
Local Control Device (LCD) Software (IDS) CSCI 0019105, Source Code	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	Executable is unclassified



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**SECTION III**

**DOCUMENTATION**

	<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1.	Equipment Configuration	U			Classify accordingly if revealing information in Section X, Vulnerabilities and Weaknesses
2.	Pictures, layouts or drawings showing external views of equipment	U			Classify accordingly if revealing information in Section X, Vulnerabilities and Weaknesses
3.	System timing requirements or methods of time setting	S	Section 1.4(g) 1 Nov 99	1 Nov 09	
4.	Details for interface or design of cryptographic and COMSEC components	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	Contact MEECN POC on page 1 to see the classified Appendix I Spec. # ESD-616A-84-1, 15 May 85.
5.	Systems Segment Specification S-133-09259	U			
6.	Systems Segment Specification S-133-09259, Appendix 10	S	Section 1.4(g) 1 Nov 99	1 Nov 09	

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SECTION IV

MMP FACILITIES AND SUPPORT EQUIPMENT

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. Type, quantity and configuration of ground or airborne interfaces or tie-ins	U			Unless classification is required by the security guide of the interfacing system
2. Classified GFE Equipment/ Material:				
a. Test Key Material, KMT-4006	C-NOFORN	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
b. Key Fill Devices				
(1) KYK-13	CCI-NOFORN	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
(2) AN/CYZ-10	CCI-NOFORN	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
c. Documentation/Manuals				
(1) KAM-237C/TSEC	C-NOFORN	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
(2) KAG-30A/TSEC	S-NOFORN	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
(3) CSED-11	C-NOFORN	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	
(4) MMP System Specification	S	Section 1.4(c), NSA 1 Nov 99	1 Nov 24	

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**APPENDIX F**

**GROUND ELEMENT MEECN SYSTEM (GEMS)**  
**FOREWORD**

(U) This appendix will address security guidelines for the Ground Element MEECN System (GEMS) project. GEMS is in the Planning/R & D Phase and will be utilize a Spiral Development Process.

(U) DESCRIPTION: GEMS supports replacement of the Single Channel Automated Manportable (SCAMP), Aircraft Alerting Communications EMP (AACE), and the Electronic Hardened Dispersal Communications (EHDC). GEMS will integrate an EHF, VLF/LF communications, and Aircrew Alerting capability and provide for survivable communications to strategic ground force elements. GEMS will provide Strategic Wing Command Posts and Mobile Support Teams the ability to receive Emergency Action Messages (EAM) in the EHF and VLF/LF spectrum, and send force report back messages over EHF.

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**APPENDIX F**

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SECTION I

GEMS

	<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1.	General GEMS Program Characteristics	U-S			Classify accordingly if revealing information in Section X, Vulnerabilities and Weaknesses or operational
2.	The fact that GEMS will be used to provide connectivity between ground force elements and Bomber, Tanker, RECCE, and mobile support teams	See remarks			Unclassified, provided <u>no</u> classified listed elsewhere in this Guide is included and it is free of operational capabilities
3.	System timing requirements or methods of time setting	S	Section 1.4 (g) 1 Nov 04	1 Nov 14	
4.	Details for interface or design of cryptographic and COMSEC components	S	Section 1.4 (c), NSA 1 Nov 04	1 Nov 29	Contact MEECN POC on page 1 to see the classified Appendix I Spec.
5.	Endurance requirements of individual components of the GEMS Program	S	Section 1.4 (g) 1 Nov 04	1 Nov 14	
6.	Details for interface or design of cryptographic and	S	Section 1.4 (c), NSA 1 Nov 04	1 Nov 29	Contact MEECN POC on page 1 to see the COMSEC components classified Appendix I Spec.

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**GEMS PROJECT SOFTWARE/FIRMWARE**

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**DOCUMENTATION**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. Equipment Configuration	U			Classify accordingly if revealing information in Section X, Vulnerabilities and Weaknesses
2. Pictures, layouts or drawings of equipment	U			Classify accordingly if showing external views revealing information in Section X, Vulnerabilities and Weaknesses, or connectivity with classified locations

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**SECTION IV**

**PROJECT FACILITIES AND SUPPORT EQUIPMENT**

**NONE - TBD**

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**APPENDIX G**

**KG-3X CRYPTOGRAPHIC MODERNIZATION PROGRAM**  
**FOREWORD**

(U) This appendix will address security guidelines for the KG-3X Crypto Modernization Program. KG-3X is in the System Phase and will be utilize a Spiral Development Process.

(U//FOUO) DESCRIPTION: The KG-3X Modernization is a family of end cryptographic units (ECUs) or module development that are being modernized under the U.S. Department of Defense (DoD) Cryptographic Modernization Initiative (CMI). The focus of the CMI is to ensure the availability of logistically supportable cryptographic devices that implement robust cryptographic algorithms in a cost-effective manner throughout their life cycle. The DoD CMI is structured to offer an effective path for DoD to realize modern security solutions that both improve the cryptographic robustness and resolve near and longer-term logistics support issues inherent in much of the current COMSEC inventory. This will enable the Department of Defense (DoD) to maintain an enhanced security posture by delivering cryptographic equipment that is:

- Re-configurable for dynamic warfare environments;
- Interoperable to enable Joint and Combined Operations;
- Cryptographically robust to provide strong cryptography designed and certified to protect against Advanced Information Warfare Attacks; and
- Supportable by the modern Key Management Infrastructure (KMI).

(U) The CMI will result in a modernized cryptographic inventory that enable improved mission responsiveness and enhanced operational effectiveness for our war fighters.

(U//FOUO) SCOPE: The KG-3X Modernization is a replacement activity for existing "clock-start" cryptographic capability integrated into current Fixed Broadcast Submarine Broadcast System (FSBS) and Minimum Essential Emergency Communications Network (MEECN) communications systems. The KG-3X family includes the "clock-start" KG-33, KG-34, KGV-61, KGV-61A, KOV-17 and KOV-17-1 ECUs. The efforts will include the RDT&E planning and execution activities necessary to replace and/or reprogram these ECUs in the existing fielded systems. The goal of the security certification is to limit the scope of the certification to the end cryptographic units and how they interface to the legacy systems. The resulting certification of the KG-3X will be for key generation in support of CONFIDENTIALITY and TRANSEC functionality in the existing systems. A condition of this limited scope certification is that if, in the future, the Air Force and/or Navy plan for a replacement/modification to the current transmitter/receiver equipment, they will provide a migration path for the security critical functions in the communications systems to be programmed into the KG-3X replacement ECUs.

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SECTION I

KG-3X ALL EFFORT

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON &amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. General KG-3X Program characteristics	U-S			Classify accordingly if revealing information in Section X, Vulnerabilities and Weaknesses
2. (U) Specific system characteristics	FOUO			See MEECN SCG or specific platform SCG
3. (U) KG-3X Program end item				
a. (U) Signal characteristics	*			See MEECN SCG or specific platform SCG
b. (U) Photographs, drawings, models, and mock-ups	FOUO			When specific aircraft/platform installations are cited
c. (U) Physical design details	FOUO			
d. (U) Internal photographs or drawings	FOUO			
e. (U) End item hardware	CCI-NOFORN	Sect 1.4(e), NSA, 1 Nov 04	1 Nov 29	
f. (U) Non-sensitive software, firmware and software design data	FOUO			
g. Sensitive software, firmware and software design data	S	Sect 1.4(e), NSA, 1 Nov 04	1 Nov 29	
h. (U) Numbers contracted and/or programmed for production	U			

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**ADMINISTRATIVE DATA**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON&amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. (U) List of contractors	U			
2. (U) Relationship of contractors to one another or to this HQ	U			
3. (U) Contract numbers	U			
4. (U) Company project numbers	U			
5. (U) Contractor and/or AF model designations	U			
6. (U) Milestones and schedules	U			
7. (U) Program name – KG-3X Cryptographic Modernization Program	U			
8. (U) Purpose of system	U			
a. (U) Revealing military capability	FOUO			
b. (U) Revealing operational characteristics	FOUO			
9. (U) National priorities assigned	FOUO			
10. (U) Complete status of progress of work performed by prime and subcontractors	U			
11. (U) Funding for any one contract	U			

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**ADMINISTRATIVE DATA**

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12. (U) Total unit cost, quantities of subsystems and major components	U			
13. (U) Total system cost to the Government necessary for system acquisition and deployment.	U			
14. (U) Programmed and/or planned quantities	U			
15. (U) Financial plan	U			
16. (U) Program schedules	U			

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**PERFORMANCE AND CAPABILITIES**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON&amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. (U) KG-3X Program and subsystems performance characteristics schedules	U			
2. (UCI) Details of the KG-3X Device design and operation	S	Sect 1.4(c), NSA, 1 Nov 04	1 Nov 29	

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**SPECIFICATIONS**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON&amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. (U) Signal characteristics	U			
2. (U) Distribution of system timing	FOUO			
3. (U) Significant technical development and operational parameters	FOUO			When specific aircraft/platform installations are cited
4. (U) Transmitter power	U			

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SECTION V

HARDWARE/KEYING MATERIAL

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON&amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. (U) KG-3X Program Equipment	CCI-NOFORN	Sect 1.4(c), NSA, 1 Nov 04	1 Nov 29	When no operational keying material is present. Classified to the classification level of the key when keys are loaded.
a. (U) Key Fill devices	CCI-NOFORN	Sect 1.4(c), NSA, 1 Nov 04	1 Nov 29	Unclassified CCI when unkeyed. Classified at the classification level of any key material unless otherwise specified by security doctrine (e.g., Security Doctrine for Data Transfer Device).
2. (U) Keying material				
a. (U) TRANSEC keying material	CCI-NOFORN	Sect 1.4(c), NSA, 1 Nov 04	1 Nov 29	Classified on the basis of content or the highest classification of information protected, whichever is higher.
b. (U) COMSEC keying material	*	Sect 1.4(c), NSA, 1 Nov 04	1 Nov 29	* Classified on the basis of content or the highest classification of information protected, whichever is higher.
c. (U) Test Key material	C-NOFORN	Sect 1.4(c), NSA, 1 Nov 04	1 Nov 29	
3. (U) Implementation and/or suppression dates (MO/Day/Yr) of:				
a. (U) A single item of classified INFOSEC keying material marked CRYPTO.	C	Sect 1.4(c), NSA, 1 Nov 04	1 Nov 29	Unless specified in an operating instruction or other appropriate doc.

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SECTION V

HARDWARE/KEYING MATERIAL

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON&amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
b. (U) A single item of unclassified material marked CRYPTO.	U			
4. (U) Status documents or data bases which reveal effective dates of classified INFOSEC keying material.	C	Sect 1.4(c), NSA, 1 Nov 04	1 Nov 29	Unless specified otherwise in an operating instruction or other appropriate document.
5. (U) Identification of INFOSEC keying material suspected of being compromised.	C	Sect 1.4(c), NSA, 1 Nov 04	1 Nov 29	Shall be marked Secret if it pertains to two person control.

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**SECTION VI**

**TEST PROGRAM**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON&amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. (U) General test philosophy and objective	FOUO			When specific aircraft/platform installations are cited
2. (U) Specific test objectives	U			Except when classified by operational commands
3. (U) Test schedules	U			Except when classified by operational commands
4. (U) Test facility configurations	U			Except when classified by operational commands
5. (U) Operational frequency assignments for field tests	U			Except when classified by operational commands
6. (U) Special test frequencies (if required)	C	Sect 1.4(g), NSA, 1 Nov 04	1 Nov 29	Declassify after test completion

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SECTION VII

VULNERABILITY AND WEAKNESS

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON&amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. (U) Vulnerability to Emergency Action Message (EAM)	S	Sect 1.4(g), NSA, 1 Nov 04	1 Nov 29	
2. (U) Design features which lead to or reveal KG-3X Program operational limitations.	S	Sect 1.4(g), NSA, 1 Nov 04	1 Nov 29	
3. (U) Equipment and system TEMPEST deficiencies	S	Sect 1.4(g), NSA, 1 Nov 04	1 Nov 29	Without specific details of the deficiency. If specific details of deficiency are provided classification could be Top Secret. Obtain NSA classification guidance.
4. (U) Specific KG-3X threat	S	Sect 1.4(c), NSA, 1 Nov 04	1 Nov 29	Details may be US ONLY/WNINTEL
5. (U) Vulnerability assessments				
a. (U) The fact that vulnerability assessments are being conducted	U			
b. (U) Results which reveal vulnerabilities	S	Sect 1.4(g), NSA, 1 Nov 04	1 Nov 29	Without specific details of the deficiency. If specific details of deficiency are provided classification could be Top Secret. Obtain NSA classification guidance.
c. (U) Statements and/or details about exploitable vulnerabilities in approved INFOSEC products	TS Codeword US ONLY	Sect 1.4(g)(c), NSA, 1 Nov 04	1 Nov 29	

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**SECTION VII**

**VULNERABILITY AND WEAKNESS**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON&amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
d. (U) The statement, without giving details, that a specific INFOSEC product contains security fault deficiencies.	S US ONLY	Sect 1.4(c)(g), NSA, 1 Nov 04	1 Nov 29	
6. (U) Countermeasures taken to reduce vulnerabilities	S	Sect 1.4(c)(g), NSA, 1 Nov 04	1 Nov 29	
7. (U) Nuclear hardness and nuclear survivability requirements	S-RD	Sect 1.4(c)(g), DOE, 1 Nov 04	Indefinite	Also, see Section X, MEECN Security Classification Guide

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**SECTION VIII**

**OPERATIONAL DATA**

<u>TOPIC</u>	<u>CLASS</u>	<u>REASON&amp; DECISION DT</u>	<u>DECLASS</u>	<u>REMARKS</u>
1. (U) Designation of specific aircraft and ground facilities to be equipped with terminals	U			Except when classified by operational commands
2. (U) Specific user missions which the KG-3X Program will support	U			Except when classified by operational commands
3. (U) System operational control procedures, which reveal operational weaknesses or limitations.	S	Sect 1.4(g), NSA, 1 Nov 04	1 Nov 14	
4. (U) Limitations, which have a major impact on the operational use of the system.	S	Sect 1.4(g), NSA, 1 Nov 04	1 Nov 14	
5. (U) Initial Operational Capability/Full Operational Capability	U			

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