

JOINT CHIEFS OF STAFF

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VOLUME I

JCS PUB 19

0JCS

# WWMCCS OBJECTIVES AND MANAGEMENT PLAN

*See Page AUP*

VOLUME I

## MANAGEMENT OF THE WWMCCS



JCS REVIEW COMPLETED

THE JOINT CHIEFS OF STAFF  
WASHINGTON, D. C. 20301

JULY 1975

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THE JOINT CHIEFS OF STAFF  
Washington, D. C. 20301

VOLUME I

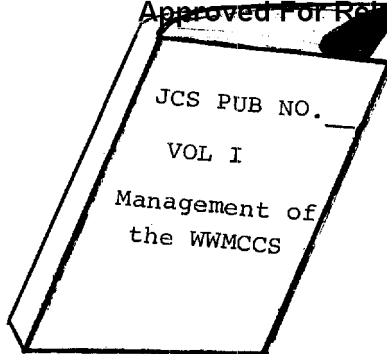
MANAGEMENT OF THE WWMCCS

1. Volume I of JCS Pub 19, prepared under the direction of the Joint Chiefs of Staff, is hereby promulgated for information, planning, guidance, and direction. When completed, JCS Pub 19 will consist of at least six volumes as indicated in Figure 1.
2. The information contained in this and companion volumes is applicable to the management of the WWMCCS. While local amplification and implementing documents may be required, information included in such local documents should not conflict with the management guidance contained in JCS Pub 19. Information having an overall impact on the WWMCCS will not be published separately unless a determination has been made in accordance with provisions of Annex H that it is not appropriate for inclusion herein.
3. The provisions of Chapter I supersede the sections of the WWMCCS Objectives Plan for FY 1975-1994 which present the WWMCCS definition and composition. At its next update, the WWMCCS Objectives Plan will be restructured as appropriate volumes or chapters of JCS Pub 19. The WWMCCS Objectives Plan will be rescinded as a separate document after all of its contents have been accommodated in JCS Pub 19.
4. The provisions of Chapter II supersede the "Policy and Procedures for Management of the WWMCCS" forwarded by JCSCM-426-73 and SM-440-73, 28 September 1973, in its entirety.
5. The provisions of Annex B supersede JCS Pub 17, "Management Procedures for the WWMCCS Standard Systems," in its entirety.
6. The provisions of Annex C supersede JCS Memorandum of Policy No. 170, "Policy for Modification and Improvement of the NMCS," in its entirety.
7. Requests for additional copies of JCS Pub 19 will be submitted to the responsible distribution agent indicated in the distribution list.

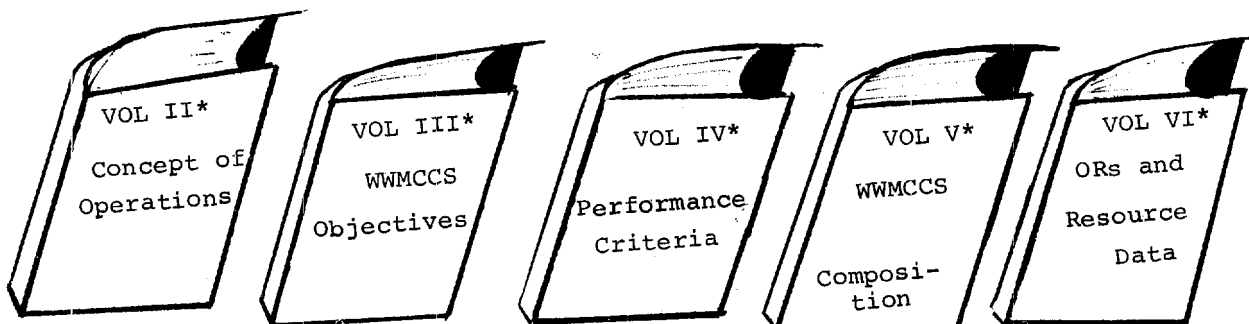
For the Joint Chiefs of Staff:



G. E. COOKE  
Brigadier General, USAF  
Secretary



- Chapter I: WWMCCS Definition and Description
- Chapter II: Policy and Procedures for Management of the WWMCCS
- Chapter III: Volume Relationships
- Chapter IV: Management of Information and Data Flow Within the WWMCCS
- Chapter V: Annotated Bibliography and Supporting References



\* Volumes II through VI will be published at a later date.  
A summary of their contents is in Chapter III of this volume.

Figure 1  
Schematic of the Publication

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TABLE OF CONTENTS

	<u>Page</u>
Chapter I--WWMCCS Definition and Description	I-1
Purpose	I-1
Applicability	I-1
WWMCCS Definition	I-1
WWMCCS Description	I-2
Temporary Extension of the WWMCCS Capabilities	I-6
Chapter II--Policy and Procedures for Management of the WWMCCS	II-1
Purpose	II-1
Applicability	II-1
Concept of WWMCCS Management	II-1
Organizational Relationships	II-3
Programs and Resources	II-3
Master Plans and Summary Plans	II-5
WWMCCS ORs	II-6
Chapter III--Volume Relationships	III-1
Purpose	III-1
Background and Authority	III-1
Contents of the Publication	III-1
Relationship to Other WWMCCS-Related Documents	III-2
Update Cycle of This Publication	III-2
Security and Reproduction Procedures	III-4
Chapter IV--Management of Information and Data Flow Within WWMCCS	IV-1
Purpose	IV-1
Scope	IV-1
Discussion	IV-1
Chapter V--Annotated Bibliography and Supporting References	V-1
Purpose	V-1
Scope	V-1
Discussion	V-1
Selected Bibliography	V-1
Supporting Agencies/Groups	V-3
Annex A--WWMCCS Resource Identification List	A-1
Annex B*--Management Procedures for the WWMCCS Standard ADP System	B-1
Annex C*--Policy for Modification and Improvement of the NMCS	C-1
Annex D--Format for the Submission of WWMCCS Operational Requirements	D-1
Annex E--Format for Technical Analysis and Cost Estimate for WWMCCS Operational Requirements	E-1

\* To be provided at a later date

Approved For Release 2002/05/07 : CIA-RDP84-00933R000200030001-8

	<u>Page</u>
Annex F--Instruction for Preparing WWMCCS Requirements and Resource Reports	F-1
Annex G--Outline and Submission Schedule of Master Plans and Summary Plans	G-1
Annex H--Procedures for Changing the WWMCCS Objectives and Management Plan	H-1
Annex I--Glossary and Dictionary	I-1

Approved For Release 2002/05/07 : CIA-RDP84-00933R000200030001-8

## CHAPTER I

### WWMCCS DEFINITION AND DESCRIPTION

1. Purpose. The purpose of Chapter I is to describe the current WWMCCS in terms of its elements, subsystems, supporting organizations, and systems. A detailed description of the composition of WWMCCS is contained in Volume V.

2. Applicability. The WWMCCS is defined in terms suitable for the various management functions and responsibilities exercised by OSD, the Joint Chiefs of Staff, the unified and specified commands, the Military Departments, and Defense agencies. Responsibilities of the Chairman, Joint Chiefs of Staff; the Joint Chiefs of Staff; commanders of unified and specified commands; and component commanders are detailed in Chapter II.

### 3. WWMCCS Definition

a. General Definition of Command and Control System. A command and control system consists of the facilities, equipment, communications, procedures, and personnel essential to a commander for planning, directing, and controlling operations of assigned forces pursuant to the missions assigned. The specific composition of the command and control system depends upon the missions of the command, its organization, and the type of forces assigned and extends to those operational forces that, due to the nature of their combat employment, must remain directly and immediately responsive to the commander. (JCS Pub 2)

b. WWMCCS. The WWMCCS is the Worldwide Military Command and Control System that provides the means for operational direction\* and technical administrative support\* involved in the function of command and control of US military forces.

c. WWMCCS Elements. The WWMCCS consists of command and control subsystems which enable the NCA, the Joint Chiefs of Staff, and commanders at appropriate subordinate levels to direct and control the operations of US military forces. The elements of the WWMCCS are the designated command and control facilities and their associated data collection and processing support, communications, selected warning systems, and executive aids.

(1) WWMCCS Command Facility. This element is a command center from which a commander, his representatives, and supporting staff direct operations and control forces. It provides the means for commanders to perform the WWMCCS command and control functional tasks (detailed in Volume II) and to interface with other systems and organizations. A WWMCCS command facility could be a primary or alternate command facility, an emergency relocation site, or an alternate headquarters command facility. These various command facilities are described in Volume V.

(2) WWMCCS Data Collection and Processing. This element involves the collection and the handling of data to support information requirements which must be satisfied through the WWMCCS. Data processing support can be manual or automatic and can be provided locally within the command facility or from a remote location. If automated, it can be accomplished in a batch mode or in an online, interactive mode.

\* See Annex I



(3) WWMCCS Communications. This element includes general purpose and special communications capabilities required to convey information, hold conferences, and issue orders within the WWMCCS. (See Volume II for the concept of operations and Volume V for the composition of WWMCCS communications.)

(4) WWMCCS Warning Systems. These tactical warning systems employ various sensors to provide notification to operational command centers when a specified threat event(s) occurs. (See Volume II for Concept of Operations.)

(5) WWMCCS Executive Aids. These aids encompass WWMCCS related documents, procedures, reporting structure, and combined system interactions which provide the means to access and input data into the WWMCCS and receive outputs in the form of records, reports, or displays. The term "Executive Aids" is a generalization used to indicate those formalized actions, exercises, and activities which are necessary for effective and complete WWMCCS support.

#### 4. WWMCCS Description

a. The WWMCCS consists of subsystems at the national and theater levels. The national level subsystems are the NMCS (the priority subsystem), the WWMCCS-related management information systems of the Service headquarters of the Military Departments, and the command and control support systems of Defense agencies. The theater level subsystems are the headquarters command and control systems of the unified and specified commands, including command and control systems of subordinate unified commands and joint task forces, when established and assigned, and the command and control systems of the headquarters of the Service component commands. The WWMCCS does not include the operating forces; however, it links with designated communications which:

(1) Extend from WWMCCS subsystem command and control facilities to subordinate commands or operating forces.

(2) Extend one echelon below the command and control related facilities of the Defense agencies and the Service headquarters of the Military Departments.

b. The WWMCCS/tactical interface lies between the component command headquarters within a unified or subordinate unified command and the senior tactical headquarters of that component.

(1) In the event a component command headquarters is also a tactical headquarters (e.g., Eighth US Army in Korea), the interface takes place within that headquarters.

(2) When a JTF is established, its headquarters command and control system is part of the WWMCCS. Provisions must be made to interface the command and control systems of the tactical headquarters of the JTF subordinate components (e.g., an Army brigade, a Navy task force, or a tactical Air Force) and the headquarters of the JTF.

c. Each commander supported by the WWMCCS has a WWMCCS subsystem which must be configured and operated for effective support of the NMCS as well as his own specific mission. However, the priority requirement is to support the NCA. A composition of each subsystem is provided in Volume V. Figure 1 is a pictorial representation of the WWMCCS relationships. The WWMCCS subsystems generically are:

# WWMCCS RELATIONSHIPS

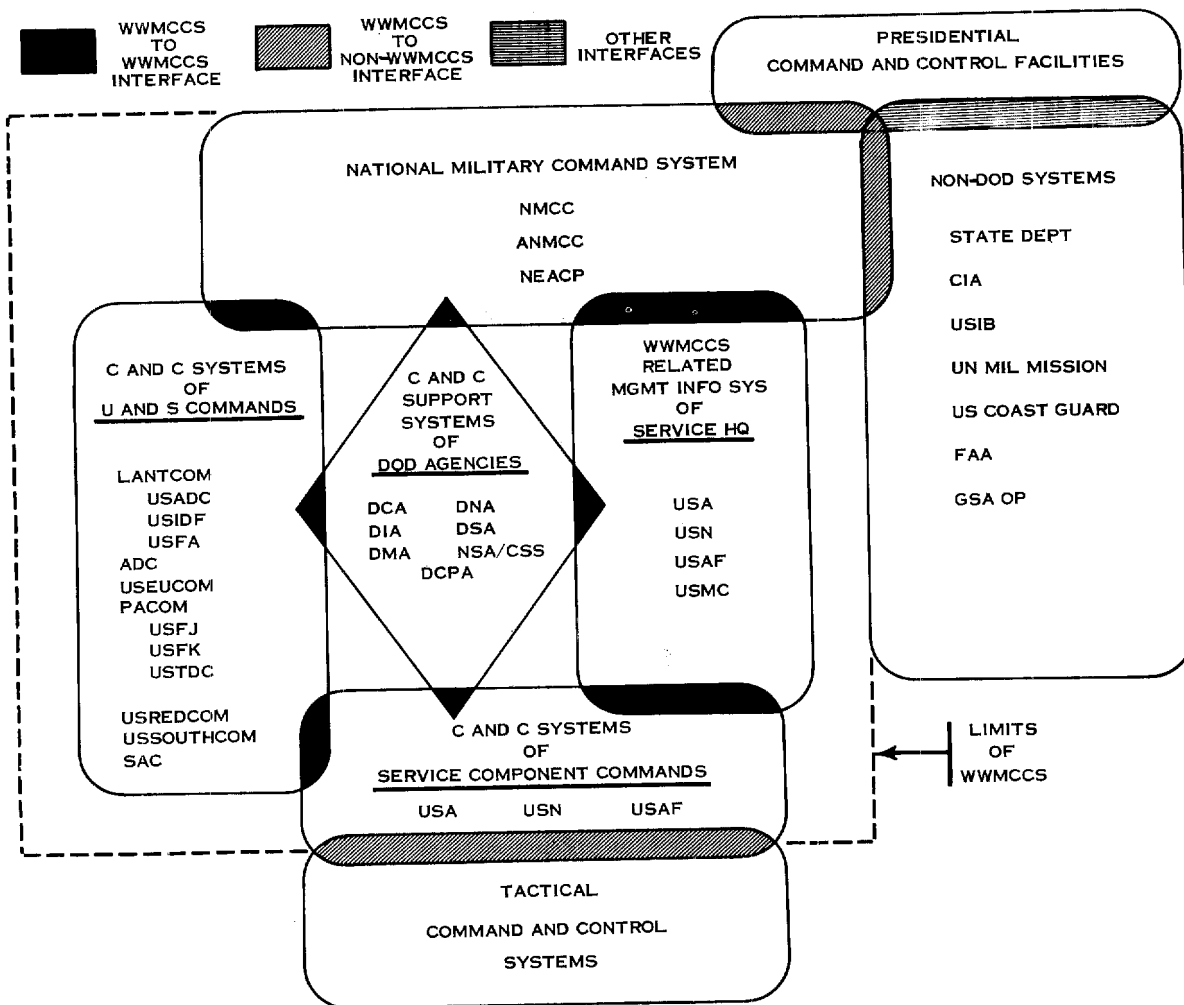


FIGURE 1

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- (1) The NMCS, which consists of the NMCC, the ANMCC, and the NEACP.

(a) The NMCS is the priority component of the WWMCCS designed to support the NCA in the exercise of their responsibilities. (Note: The NCA consist of the President and the Secretary of Defense or their duly deputized alternates or successors.) The NMCS provides the means by which the President and the Secretary of Defense can receive warning and intelligence upon which accurate and timely decisions can be made, apply the resources of the Military Departments, and assign military missions and provide direction to the commanders of unified and specified commands. The NMCS must be capable of providing information so that appropriate and timely responses may be selected and directed by the NCA and implemented. In addition, the NMCS supports the Joint Chiefs of Staff in carrying out their responsibilities.

(b) The NMCS also includes communications connecting its facilities with primary and alternate command facilities of the (1) headquarters of the unified and specified commands, (2) Service headquarters of the Military Departments, and (3) other designated commands and DOD agencies which provide support through the WWMCCS.

- (2) Command and Control Systems of the Unified and Specified Commands

(a) These systems provide the means through which commanders of unified and specified commands send and receive information and exercise operational command of assigned forces.

(b) The command and control system of a unified command includes the command and control systems of subordinate unified commands and JTFs when these organizations are established and assigned.

- (3) WWMCCS-Related Management/Information Systems of the Headquarters of the Military Departments and Services. These systems consist of the facilities, equipment, communications, procedures, and personnel which provide the means through which the headquarters of the Military Departments (US Army, US Navy, US Coast Guard when assigned, US Air Force, and US Marine Corps) carry out their assigned functions in support of the WWMCCS.

- (4) Command and Control Systems of the Headquarters of the Service Component Commands

(a) These systems provide the means through which the commanders send and receive information and exercise command over their forces.

(b) WWMCCS subsystems as well as those referred to in subparagraph 4c(2) above comprise the command and control systems of the organizations listed below in groupings which indicate operational relationships:

1. Headquarters, Alaskan Air Command.
2. Atlantic Command
  - a. Headquarters, US Army Forces, Atlantic.
  - b. Headquarters, US Atlantic Fleet.
  - c. Headquarters, US Air Force, Atlantic.

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- d. US Antilles Defense Command.
  - e. US Iceland Defense Forces.
  - f. US Forces, Azores.
- 3. US European Command
  - a. Headquarters, US Army, Europe.
  - b. Headquarters, US Naval Forces, Europe.
  - c. Headquarters, US Air Forces in Europe.
- 4. Pacific Command
  - a. Headquarters, US Pacific Fleet.
  - b. Headquarters, Pacific Air Forces.
  - c. US Forces, Japan.
  - d. US Forces, Korea.
  - e. US Taiwan Defense Command.
- 5. US Readiness Command
  - a. Headquarters, US Army Readiness Command.
  - b. Headquarters, US Air Forces, Readiness Command.
- 6. US Southern Command
  - Headquarters, US Air Forces, Southern Command.
- 7. Strategic Air Command
- 8. Aerospace Defense Command.

(5) Command and Control Systems of DOD Agencies. These systems provide the means through which the directors accomplish the missions of their agencies in support of the command and control function. The DOD agencies are:

- (a) DCPA
- (b) DCA
- (c) DIA
- (d) DMA
- (e) DNA
- (f) DSA
- (g) NSA/CSS.

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d. WWMCCS Warning Systems. The baseline warning elements of the WWMCCS are listed in Volume V of this publication.

e. Organizations and Systems Which Support the WWMCCS. Defense organizations and systems which provide support to the WWMCCS are listed and discussed in Volume V of this publication:

(1) Organizations

(a) The Defense TOA.

1. MTMC.

2. MSC.

3. MAC.

(b) JTSA.

(c) Air Training Command.

(d) Air Force Logistics Command.

(e) NMCS Support Center.

(f) NMIC.

(2) Systems. Certain other systems are so closely related to, and supportive of, the WWMCCS mission that their interface with the WWMCCS is essential. These other systems are:

(a) Environmental Service. Environmental system support to the WWMCCS is essential for decisionmaking due to the correlation among environmental conditions, weapon system effectiveness, and military operations.

(b) Intelligence. Appropriate interfaces must exist at the WWMCCS subsystem level to insure the provision of all-source intelligence for decisionmaking.

(c) Logistics. The logistic system support to WWMCCS is required to provide operationally significant logistic information to the decision-maker.

(d) Non-WWMCCS Surveillance/Warning Systems. Certain surveillance and sensor systems, although not within the WWMCCS, provide warning and intelligence information required to enhance WWMCCS support.

(e) Communications. Communication support to the WWMCCS is provided by the DCS through special purpose networks, certain other networks and systems, and other DCS common-user networks; e.g., AUTODIN/AUTOVON.

5. Temporary Extension of the WWMCCS Capabilities. The major subsystems listed in paragraph 4 above constitute the command and control systems which support the NCA and subordinate commanders in the day-to-day command and control of US military forces, including the special capabilities for communications with strategic offensive and defensive forces. However, during crisis situations, the NCA or the Joint Chiefs of Staff may require temporary use of certain non-WWMCCS communications capabilities. Improvements to command and control systems

which are planned to support the requirement for such a temporary use will be consistent with the objectives specified for the WWMCCS. The WWMCCS also provides capabilities required by the NCA for communications with other departments and elements of the US Government and with other addressees designated by the NCA. Non-DOD capabilities may be utilized to enable the WWMCCS to satisfy such requirements. Provision for interface capabilities will be included, as appropriate, in all plans for improvements to the WWMCCS.

## CHAPTER II

## POLICY AND PROCEDURES FOR MANAGEMENT OF THE WWMCCS

1. Purpose. To provide the policy guidance and procedural instructions by which the WWMCCS is managed. Separate policy and procedures for management of the WWMCCS Standard ADP Systems\* and for modification and improvement of the NMCS are contained in Annex B and Annex C, respectively.

2. Applicability. DOD Directive 5100.30 assigns certain WWMCCS responsibilities to the Chairman, Joint Chiefs of Staff, and to the Joint Chiefs of Staff which require policies and procedures to be promulgated for the guidance of DOD components involved in the development, acquisition, operation, improvement, and support of the WWMCCS. It also assigns primary staff responsibility in OSD for the WWMCCS and WWMCCS-related systems to the Director, Telecommunications and Command and Control Systems, and for intelligence collection and reporting systems within the WWMCCS to the Assistant Secretary of Defense (Intelligence).

3. Concept of WWMCCS Management

a. The following management activities associated with WWMCCS support of the NCA are carried out at different organizational levels by different DOD components, dependent upon the identity of the WWMCCS subsystem and the particular functions being exercised. These management activities consist of:

- (1) Establishing goals\* and objectives\* for the WWMCCS performance.
- (2) Planning the evolution of the WWMCCS capability from existing capabilities to the attainment of approved objectives.
- (3) Validating\* and approving\* WWMCCS improvements and modifications to overall command and control capability.
- (4) Programming resources for current WWMCCS operations and improvements to WWMCCS.
- (5) Directing improvements and modifications to the WWMCCS.
- (6) Establishing procedural policies.
- (7) Controlling the performance of the system.
- (8) Exercising the system and evaluating its performance.

b. The Chairman, Joint Chiefs of Staff, exercises responsibilities for the following activities:

(1) Establishing WWMCCS Objectives. He provides objectives for the improvement of the WWMCCS capability to support the NCA in the achievement of US military objectives and assures that overall objectives for command and control systems promulgated in the JSPS are consistent with NCA requirements in support of national policies. In this role he:

- (a) Provides a description of the WWMCCS and its supporting assets.
- (b) States critical objectives and relates subsystem requirements to these.

\* See Annex I

(c) Establishes relative priorities of objectives and the ORs\* which support them.

(d) Identifies validated requirements and the source of the validation.

(e) Compares current and projected system capabilities with WWMCCS objectives and ORs in order to identify system deficiencies and unnecessary duplication of capabilities.

(f) Provides a source of command and control objectives which will be considered in the development of JSPS plans and documents.

(g) Identifies WWMCCS issues which require further study.

(2) WWMCCS Performance Standards

(a) Establishes quantitative and qualitative performance criteria. (Volume IV of this publication.)

(b) Specifies initial minimum WWMCCS performance criteria for support of the NCA and the NMCS. Included in performance capability objectives will be criteria for survivability of facilities, interoperability of systems, timeliness of information transfer, allowable error rates, compatibility of information interchange within standard systems, and other criteria, as developed.

(3) Planning WWMCCS Improvements

(a) Reviews or validates all requirements for development and implementation of modifications and improvements to the WWMCCS which directly support the NCA and increase the effectiveness of the NMCS.

(b) For the NMCS, initiates WWMCCS ORs and prepares the necessary PPBS documentation (see Annex C) with appropriate DOD component assistance.

(c) Establishes criteria for setting priorities for fulfilling approved requirements based upon the needs of the WWMCCS to support the NCA.

(d) Assures that phasing schedules provide for a logical evolution and economic sequence for planned WWMCCS development.

(4) WWMCCS Procedural Concept. Promulgates the overall procedural concept for operating the WWMCCS, including procedures to be used in fulfilling those NCA information requirements which must be satisfied through the WWMCCS. The Chairman, Joint Chiefs of Staff, operates the NMCS.

(5) Controlling and Reporting on WWMCCS Performance

(a) Monitors the degree to which the subsystems comply with specified improvements and performance criteria.

(b) Causes the system to be exercised for measurements of performance and evaluation of effectiveness.

(c) Undertakes the evaluation and disseminates the conclusions to appropriate DOD components as considerations for subsequent system improvements and modification of requirements.

\* See Annex I



c. The commanders of the unified and specified commands and other commanders supported by the WWMCCS provide objectives for improvement and operation of the WWMCCS in support of their mission requirements.

d. The foregoing management activities of the Chairman, Joint Chiefs of Staff, except those pertaining to WWMCCS Council activities, where appropriate, are performed in coordination with the Joint Chiefs of Staff in the performance of their responsibility to provide for the strategic direction of the Armed Forces and to advise on the effectiveness of the WWMCCS.

e. For other than the activities cited in subparagraph 3b above, responsibility for the operation, development, acquisition, and implementation or improvement of the WWMCCS subsystems is vested in the appropriate Service/agency.

#### 4. Organizational Relationships

a. For WWMCCS matters, the Chairman, Joint Chiefs of Staff, is:

- (1) The manager of the NMCS.
- (2) A member of the WWMCCS Council.

For these roles he will be supported by the OJCS, primarily the Operations Directorate, in the accomplishment of his functions. Normally, he performs these functions in coordination with the Joint Chiefs of Staff.

b. The Deputy Director for Operations (Command and Control) has two WWMCCS roles in support of the functions of the Chairman, Joint Chiefs of Staff, described in subparagraph 4a above. They are:

- (1) Operating and administering the NMCS, under the direction of the Director for Operations, OJCS.
- (2) Chairman, WCSG. The WCSG consists of three members: one appointed by the Chairman, Joint Chiefs of Staff, one appointed by the Assistant Secretary of Defense (Intelligence), and one appointed by the Director, Telecommunications and Command and Control Systems. The chairmanship of the WCSG is held by the appointee of the Chairman, Joint Chiefs of Staff. The WCSG provides staff support for the WWMCCS Council.

c. The manager of the WWMCCS ADP program functions under the Deputy Director for Operations (Command and Control). The organizational relationships for the WWMCCS ADP program are as shown in Annex B of this publication.

d. The Communications-Electronics Directorate, Joint Staff, performs duties for WWMCCS communications support by responding to the Deputy Director for Operations (Command and Control), Joint Staff, whenever and wherever the capability and assets of the C-E Directorate are needed to provide communications support to the WWMCCS.

5. Programs and Resources. In order for the Chairman, Joint Chiefs of Staff, to maintain cognizance of all WWMCCS programs, as required by DOD Directive 5100.30, the Services/Defense agencies will provide designated WWMCCS programs and resource information in accordance with the procedures prescribed below and in Annex F.

a. WWMCCS Resource Identification List Selection Criteria. The criteria for selecting systems/programs to be included in the WWMCCS Resource Identification List have been developed as follows:

(1) Detailed resources information for all systems/programs comprising the WWMCCS is not necessary for overall management purposes. However, information on the more significant systems/programs at the heart of the WWMCCS system would contribute to proper WWMCCS management. Any such list would be dynamic (as new systems phase in and out of the WWMCCS and their relative significance changes) and judgmental (since no rigid rules exist which can be readily applied in making such a selection). As an overall guide, the following criteria, based on their functional relationship to direct support of the NCA, are used to select those systems contained in the WWMCCS Resource Identification List (Annex A).

- (a) Essentiality to the NMCS in providing direct support to the NCA.
- (b) Provision of an option by which the NCA can exercise direction and control of military forces for nuclear weapons employment and other time-sensitive operations.
- (c) Joint nature of system development, acquisition, or use.
- (d) Significance in resources expenditure.

(2) These criteria represent a rational framework for determining those systems/programs vital to the systematic worldwide support of the NCA. Normally, these systems/programs are within the dedicated WWMCCS as derived from DOD Directive 5100.30 and described in the current edition of the WWMCCS Objectives Plan. In essence, each candidate provides critical capabilities which expand, when required, the capability of the NMCS to support the NCA. The DOD system/programs listed in the WWMCCS Resource Identification List meet the criteria outlined above and contribute to the effectiveness of the WWMCCS. A format for resource report on these systems/programs is contained in Annex F.

b. Procedures for Reporting Program and Resource Information. The supporting Service/Defense agency will provide the Joint Chiefs of Staff with WWMCCS program and resource information pertinent to all WWMCCS ORs and those selected systems specifically identified in the WWMCCS Resource Identification List contained in Annex A.

- (1) When the POM is submitted to the Secretary of Defense, each Service/Defense agency will provide the Joint Chiefs of Staff with program and resource information derived from the POM submission regarding the WWMCCS ORs and systems for which they have program responsibility.
- (2) This information will be in the form of a "WWMCCS Requirement Report" and a "WWMCCS Resource Report."
- (3) The WWMCCS Requirement Report will include the current status of all WWMCCS ORs identified in the current WWMCCS Objectives Plan. (Volume VI when published.)
- (4) The WWMCCS Resource Report will contain the current PPB status of each of the selected WWMCCS systems.
- (5) The specific reporting instructions and format for both reports are described in Annex F.
- (6) The Services/Defense agencies will provide the Joint Chiefs of Staff with copies of their reclaims to any WWMCCS-related Program Decision Memorandums, Program Budget Decisions, or other programming or budgetary actions.

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(7) The Services/Defense agencies will provide timely information to the Chairman, Joint Chiefs of Staff, concerning any Program Change Request, Decision Coordinating Paper, major reprogramming request submissions, or response to congressional query on substantive issues which pertain to WWMCCS subsystems.

c. Applicability. These procedures apply to all WWMCCS ORs (except for the WWMCCS ADP System ORs for which resource information is reported under procedures of Annex B of this publication) and those selected systems specifically identified in the WWMCCS Resource Identification List contained in Annex A and to the Services/Defense agencies responsible for supporting those requirements and systems.

d. Objectives. The objectives of these procedures are:

(1) To insure responsiveness, functional interoperability, and standardization of the WWMCCS and to increase the effectiveness of the NMCS.

(2) To assist the WWMCCS Council; the Chairman, Joint Chiefs of Staff; and the Joint Chiefs of Staff in carrying out their responsibilities for improvement of the WWMCCS.

(3) To provide information required for the WWMCCS Objectives Plan.

(4) To assist the Joint Chiefs of Staff in advising on the effectiveness of the WWMCCS.

(5) To assist the Chairman, Joint Chiefs of Staff, in supporting the Services/Defense agencies in DOD budget reviews and congressional budget hearings concerning WWMCCS resources and programs.

6. Master Plans and Summary Plans. The Chairman, Joint Chiefs of Staff, maintains cognizance of all WWMCCS concepts, objectives, and requirements through plans submitted by each commander of a unified or specified command, by the Service headquarters of the Military Departments, and by the Defense agencies.

a. Each commander of a unified or specified command will submit to the Joint Chiefs of Staff a command and control system master plan (described in Annex G) for the command and control systems serving his command. These plans will include guidance to assure interoperability of the command-wide command and control and intelligence support systems necessary for the execution of the operational functions of the unified and specified commands. These plans are submitted for initial approval by the Joint Chiefs of Staff and review by the Chairman, Joint Chiefs of Staff. Each plan will be updated at least annually in accordance with the schedule of Annex G.

b. A command and control system summary plan (described in Annex G) for the WWMCCS-related management information systems of the Service headquarters of the Military Departments and the command and control support systems of the Defense agencies will be submitted to the Chairman, Joint Chiefs of Staff, for information. Each plan will be updated at least annually in accordance with the schedule of Annex G.

c. DOD Directive S-5100.44 is the Command and Control Master Plan for the NMCS. DOD Directive S-5100.44 and Annex C provide the means by which needed modification and improvements to the NMCS can be identified.

Approved For Release 2002/05/07 : CIA-RDP84-00933R000200030001-8

7. WWMCCS ORs

a. The responsibilities of the Chairman, Joint Chiefs of Staff, which relate to processing of WWMCCS ORs are:

- (1) Develop and validate ORs of the NMCS.
- (2) Develop an overall WWMCCS Objectives Plan.
- (3) Prepare, with appropriate DOD component assistance, appropriate planning, programming, and budgeting documents for the NMCS.
- (4) Validate WWMCCS ORs of the commanders of the unified and specified commands.
- (5) Maintain cognizance of all WWMCCS programs and capabilities.
- (6) Make recommendations to the Secretary of Defense on the design, development, and procurement of systems for the NMCS.
- (7) Make recommendations to the Secretary of Defense to insure responsiveness, functional interoperability, and standardization of the WWMCCS.
- (8) Make recommendations to the Secretary of Defense for changes to the WWMCCS that will increase the effectiveness of the NMCS.
- (9) As a member of the WWMCCS Council, the Chairman, Joint Chiefs of Staff, assists in providing policy guidance for the development of the WWMCCS.

b. Procedures for processing WWMCCS ORs in accordance with established PPBS procedures are prescribed herein to assist the Chairman, Joint Chiefs of Staff, acting in coordination with the Joint Chiefs of Staff, in carrying out his responsibilities.

c. WWMCCS ORs of the NMCS and the command and control systems of the unified and specified commands will be submitted to the Chairman, Joint Chiefs of Staff, for validation. WWMCCS ORs of the Services, DOD agencies, and Service component commands will be submitted to the Chairman, Joint Chiefs of Staff, for review and comment only when they are directly related to an interface with the NMCS or perform a critical function in support of the NMCS. ORs whose costs are below the following thresholds may be processed without submission to the Chairman, Joint Chiefs of Staff. WWMCCS ORs should be submitted for validation or review, as appropriate, if estimated new investment costs exceed \$500,000 or new annual lease costs exceed \$200,000. Information copies will be provided to the Chairman, Joint Chiefs of Staff, on all below-the-threshold requirements which exceed a cost of \$100,000 at the time of approval by the appropriate approving authority. These thresholds are not applicable to increased costs of ongoing, approved WWMCCS ORs that can be satisfied by reprogramming within the limits established by DOD Directive 7045.7. Cost trade-offs which would reduce these figures will not be used to determine if a project exceeds these thresholds but can be used as justification for approving the ORs. Further, if total overall 5-year costs, including O&M, R&D, etc., exceed \$1 million, the OR will be considered to exceed thresholds.

d. The processes concerned with the handling of ORs are validation and approval and programming and budgeting.

(1) Validation and Approval. The validation and approval process consists of the following steps, which occur in chronological sequence at one or more organizational levels.

(a) Perceive a need or deficiency by comparing current capability to approved objectives.

(b) Prepare and submit an OR to satisfy the need or deficiency. (See Annex D for format or Annex B for special format applicable to WWMCCS Standard ADP Systems.)

(c) Perform a technical analysis of the OR. Propose a solution or alternative approach(es). Prepare resource cost and schedule estimate(s). (See Annex E for format or Annex B for special format applicable to WWMCCS Standard ADP Systems.)

(d) The Chairman, Joint Chiefs of Staff, in coordination with the Joint Chiefs of Staff, validates the WWMCCS ORs of the NMCS and the commanders of the unified and specified commands, commanders of subordinate unified commands, and JTFs when established. Competent authorities within the appropriate Service/Defense agency validate the ORs of other WWMCCS subsystems.

(e) ORs are approved by competent authority and processed in accordance with established PPBS procedures.

(f) If, during the process described above, the requirement fails to be validated or is not approved, it will be returned to the originator with appropriate comments.

(2) Programming and Budgeting. Programs to satisfy approved WWMCCS requirements will be entered and processed in the PPBS by the appropriate Service or Defense agency, in accordance with DOD Directive 7045.7.

e. The following subparagraphs discuss the details of processing WWMCCS requirements.

(1) NMCS ORs. NMCS ORs are developed by the Joint Staff in accordance with Annex C to satisfy needs identified by WWMCCS objectives. The Joint Staff will forward the NMCS OR in the format set forth in Annex C (or Annex B for WWMCCS Standard ADP Systems) to the DCA or the cognizant Service with a request to prepare a TA/CE in the format of Annex E (or Annex B for WWMCCS Standard ADP Systems). The Chairman, Joint Chiefs of Staff, will validate or reject the requirement. If validated, he will include the NMCS OR in the annual revision of the NMCS Five Year Master Objectives Program which will be submitted to the Secretary of Defense for review and approval. He will also submit the validated NMCS OR to the appropriate Service/agency for planning. If a defense system development is required, the Service/agency will conduct the conceptual work leading to the definition of alternative system candidates and will forward a draft DCP or PM to the Secretary of Defense for approval. The Service/agency will conduct this conceptual work in full coordination with the Chairman, Joint Chiefs of Staff, and will obtain his coordination on the draft DCP (or PM) prior to submitting it to the Secretary of Defense. The Chairman, Joint Chiefs of Staff, will make recommendations to the Secretary of Defense on design, development, and procurement of the system. The Chairman, Joint Chiefs of Staff, may submit the draft DCP to the WWMCCS Council for review and comment when he considers it appropriate. The Secretary of Defense reviews

the draft DCP (or PM) and records his decision related to the development program. If a system development program is not required, the Service/agency will initiate the PPB action necessary to satisfy the OR. The Chairman, Joint Chiefs of Staff, will maintain cognizance and monitor program progress.

(2) ORs of Commanders of Unified/Specified and Subordinate Unified Commands

(a) WWMCCS ORs of the commanders of the unified and specified commands and commanders of the subordinate unified commands are developed and submitted by the commanders of the unified and specified commands to the Joint Chiefs of Staff in the format of Annex D (or Annex B for WWMCCS Standard ADP Systems).

(b) The submitting commanders shall coordinate the OR with other organizations under their operational command who are supported by the WWMCCS and with commanders of other organizations who may have a similar requirement.

(c) The Joint Chiefs of Staff will forward the OR, with comments, to an appropriate Service to conduct a preliminary estimate of the requirement to determine whether solutions are potentially available to satisfy it.

1. If the expenditure of significant resources to examine the solutions does not seem to be warranted or the technical infeasibility of solution indicates that a more detailed estimate is not justified, the Service will forward the results of the preliminary estimate to the Chairman, Joint Chiefs of Staff, with a recommendation for not continuing with a detailed TA/CE.

2. If further assessment appears warranted but the expenditure of significant resources to continue will be required, the Service will obtain concurrence from the Chairman, Joint Chiefs of Staff, to proceed, based on the preliminary estimate. Otherwise, that Service will conduct a technical assessment, examine alternative methods for achieving the improvement, make a cost and schedule estimate, and recommend a course of action to include a determination of the level of approval required.

3. Assistance from appropriate Services and DOD agencies on matters which are in their area of expertise and funding responsibility will be provided to the Service conducting the overall evaluation.

4. The evaluation by the Service will be in the format of Annex E (or Annex B for WWMCCS Standard ADP Systems). The Service evaluation will include coordination with other Services and the Defense agencies, as necessary, to provide the required data and with the submitting unified or specified command, if required, to define the OR further.

5. The OR and the associated evaluation will be processed in accordance with JCS procedures, as appropriate. The Chairman, Joint Chiefs of Staff, in validating or rejecting the OR, will have the benefit of Service/agency evaluation and recommendations, as well as the recommendation by the Joint Chiefs of Staff. Upon the recommendation of the Joint Chiefs of Staff, the validated OR will be forwarded to the appropriate Service for approval at the Military Department level, if the funding required to satisfy the OR is

Approved For Release 2002/05/07 : CIA-RDP84-00933R000200030001-8

within the authority of the Secretary of the Military Department to approve and implement. In this case, the Secretary of Defense and the Chairman, Joint Chiefs of Staff, will be advised of the action taken. In the event funding requirements exceed the approval authority of the Military Department or the responsible Service cannot fully support the recommendations of the Chairman, Joint Chiefs of Staff, the validated OR will be forwarded through the appropriate Military Department to the Secretary of Defense for resolution. In this manner, the responsible Service will have an opportunity to show a relationship between satisfaction of the validated WWMCCS OR and other operational requirements from a balanced-force context.

6. If the Chairman, Joint Chiefs of Staff, considers it appropriate, he may submit the OR and the associated evaluation to the WWMCCS Council for review and comment after obtaining Military Department comments prior to forwarding it to the Secretary of Defense for resolution.

7. Validated ORs are processed in accordance with established PPBS procedures. The Chairman, Joint Chiefs of Staff, will maintain cognizance and follow program progress.

(3) ORs of Services/Defense Agencies and Service Component Commanders

(a) WWMCCS ORs of the Services, Defense agencies, and Service component commanders are developed by the respective organizations concerned and validated by competent authorities within the appropriate Service or agency. Commanders of Service component commands will first obtain comments of the commanders of the unified command, as appropriate, for WWMCCS ORs developed by the component commands.

(b) Validated WWMCCS ORs which relate directly to an interface with the NMCS or perform a critical function in support of the NMCS are forwarded in the format of Annex C (or Annex B for WWMCCS Standard ADP Systems) for review by the Chairman, Joint Chiefs of Staff. JCS reviews will be conducted, as appropriate.

(c) Upon the recommendations of the Joint Chiefs of Staff, the Chairman, Joint Chiefs of Staff, will forward these WWMCCS ORs with his comments to the appropriate Service for approval at the Military Department level if the funding required to satisfy the OR is within the authority of the Secretary of the Military Department to approve and implement. In this case, the Secretary of Defense and the Chairman, Joint Chiefs of Staff, will be advised of the action taken. In the event funding requirements exceed the approval authority of the Military Department or the responsible Service cannot fully support the recommendations of the Chairman, Joint Chiefs of Staff, the validated OR will be forwarded through the appropriate Military Department to the Secretary of Defense for resolution. In this manner, the responsible Service will have an opportunity to show a relationship between satisfaction of the validated WWMCCS OR and other operational requirements from a balanced-force context. Other validated ORs pertaining to these WWMCCS subsystems are processed in accordance with established PPBS procedures.

Approved For Release 2002/05/07 : CIA-RDP84-00933R000200030001-8

(4) Telecommunications requirements will be processed in accordance with DOD Directive 4630.1 or other established policy\* for communications; however, if the requirement is a WWMCCS OR, the procedures herein apply. The only changes to DOD Directive 4630.1 procedures in this latter case are:

(a) JCS validation will be by the Chairman, Joint Chiefs of Staff, based on a joint action.

(b) Information copies of Service/Defense agency validated ORs will be furnished in accordance with the procedures of subparagraph 7e(2)(c) 7 above.

(5) In accordance with DOD Directive 5100.30, the Assistant Secretary of Defense (Intelligence) or the Director, Telecommunications and Command and Control Systems, reviews all ORs submitted to the Secretary of Defense and coordinates them with other staff agencies in OSD as required, such as the Assistant Secretary of Defense (Comptroller) for certain ADP matters. They review all data concerning the requirement, consider the priority within the WWMCCS, and make recommendations to the Secretary of Defense. For high priority ORs that are to be processed out of cycle, the Secretary of Defense issues Program Change Decisions to the Services/Defense agencies in response to Program Change Requests. Those requirements that are to be processed in cycle will be returned to the Services/Defense agencies for preparation of final programming and budgeting documentation, with information copies to the Chairman, Joint Chiefs of Staff. The commanders of the unified or specified commands or other elements concerned will be informed, as appropriate, by the Joint Chiefs of Staff.

\* For example, COMSEC qualitative requirements will be processed in accordance with JCS "Joint Communications Security Policy (U)" (Enclosure to JCSM-277-71, 16 June 1971)



### CHAPTER III

#### VOLUME RELATIONSHIPS

##### 1. Purpose

a. This chapter prescribes the policies and procedures which govern the contents and publication cycle of the individual volumes of this publication and

b. Describes the relationship among volumes of this publication and their relationship to other WWMCCS documents.

##### 2. Background and Authority

a. DOD Directive 5100.30, 2 December 1971, "World-Wide Military Command and Control System (WWMCCS)," assigns specific responsibilities to the Chairman, Joint Chiefs of Staff, and to the Joint Chiefs of Staff. These responsibilities are discussed in detail in Chapter II of this volume.

b. In addition, DOD Directive 5100.30 establishes a WWMCCS Council, chaired by the Deputy Secretary of Defense, with the Chairman, Joint Chiefs of Staff, the Assistant Secretary of Defense (Intelligence), and the Assistant to the Secretary of Defense (Telecommunications) (now Director, Telecommunications and Command and Control Systems) as members. The WWMCCS Council provides policy guidance for the development and operation of the WWMCCS and evaluation of its overall performance.

##### 3. Contents of the Publication

a. The volumes of this publication comprise an organized authoritative set of procedures, policies, and information which supports the Chairman, Joint Chiefs of Staff, and the Joint Chiefs of Staff in management and continued development of the WWMCCS as tasked by DOD Directive 5100.30. This publication provides the basic management procedures, overall definition, operational concept, and description of the WWMCCS. It further records decisions and promulgates policy guidance for establishing goals and objectives, developing requirements, schedules, and performance criteria for WWMCCS and its elements. The contents of each volume focus upon a specific aspect of the WWMCCS, as noted below.

b. Volume I, "Management of the WWMCCS," provides a definition and description of the WWMCCS for use by managers and planners who have responsibilities for the requirements definition, improvement, and acquisition aspects of the WWMCCS. It amplifies DOD Directive 5100.30, establishes the procedures necessary to implement hardware and software improvements, and establishes resource reports which are necessary to monitor WWMCCS costs. It also provides a summary of the data/information flow management procedures for WWMCCS.

c. Volume II, "Concept of Operations," is a description of the WWMCCS mission and of the functional aspects of the system and of its elements in support of the mission. The concept of operations is a broad statement of WWMCCS usage at the national level and serves as guidance to subordinate levels in developing supporting, detailed concepts.

d. Volume III, "WWMCCS Objectives," provides guidance to planners concerned with improvement of the WWMCCS. It records policy and guidance for improvement promulgated by the Secretary of Defense; the Chairman, Joint Chiefs of Staff; the Joint Chiefs of Staff; and the WWMCCS Council.

Volume III defines the goals of WWMCCS as derived from national policy and the concept of operations. Mid-range objectives to attain these goals are presented in Annex A of Volume III. Long-range objectives and those impacting on planning of R&D programs are presented in Annex B of Volume III.

e. Volume IV, "Performance Criteria," describes broad qualitative and quantitative performance criteria established by appropriate authority for the WWMCCS. It is not a designer's guide but rather a compendium of characteristics and key parameters which can be used to measure the performance of WWMCCS components, subsystems, and elements.

f. Volume V, "WWMCCS Composition," is a compendium of the WWMCCS facilities, ADP equipment, warning systems, communications networks and systems, supporting organizations and systems, and executive aids. It provides a system overview and highlights the WWMCCS interfaces.

g. Volume VI, "Operational Requirements and Resource Data," provides a listing and description of previously validated ORs submitted by the OJCS, the unified and specified commands, Services, and DOD agencies which are designed to improve WWMCCS operations by supporting WWMCCS objectives. The OR summary contains a cost summary, the priority category of the OR, and identification of the document/action that validated the requirement.

#### 4. Relationship to Other WWMCCS-Related Documents

a. Table 1 lists the volumes of this publication and summarizes their function, interrelationship, and, where applicable, their relationship to other WWMCCS-related documents.

b. This JCS publication fulfills the requirement for the WWMCCS Objectives Plan, specified by DOD Directive 5100.30.

5. Update Cycle of This Publication. This publication will be reviewed, as defined in Annex H, on a continuing basis to insure currency of information. The review includes the correlation of decisions, policy changes, and approved recommendations emanating from studies and analyses, to the topics of the various volumes of this publication.

a. As a minimum, Volume III will be reviewed, updated, and, if need be, revised annually concurrently with the JSOP, Volume II (Annex E), and the JRDOD so as to permit approval by the Joint Chiefs of Staff along with these documents in accordance with the Program Budget Review Schedule.

b. Volume II will be reviewed and updated and, if need be, revised annually in August so as to provide guidance to unified and specified commands, the Services, and DOD agencies in the submission of their master plans and summary plans and to serve as input to the JSOP, Volume I, of the subsequent PPBS cycle.

d. Volumes I, IV, and V contain policy, guidance, and descriptive material which are not expected to change frequently or on a predictable basis. They will be reviewed and updated as required by changes in policy or system configuration.

e. Procedures for accomplishment of changes to the WWMCCS Objectives and Management Plan are described in Annex H. These procedures include the designation of the organization(s) responsible for updating each volume or individual chapters.

Summary of Volume Purpose and Relationships  
III-3

Publication Volume Number and Title	Purpose of Volume	Relationship to Other WWMCCS-Related Documents
Volume I--Management of the WWMCCS	Basic policy and procedures for the management of the WWMCCS	Implements DOD Directive 5100.30 and provides a definition for WWMCCS
Volume II--Concept of Operations	Statement of WWMCCS mission and of functional aspects of system usage at the national level to support the mission in conjunction with JCS Pub 6	Serves as guidance in developing supporting concepts at subordinate levels submitted in master plans and summary plans
Volume III--WWMCCS Objectives	Statement of policy guidance for improvement of the WWMCCS	a. Serves as guidance to planners. b. Serves as input to JSOP, Volume II, Annex E, and to JRDOD
Volume IV--Performance Criteria	Describes and documents WWMCCS performance criteria	Serves as guidance to plan and validate improvements
Volume V--WWMCCS Composition	Provides a compendium of the of WWMCCS	Serves as the official system description of WWMCCS and is a reference document
Volume VI--Operational Requirements and Resource Data	Summarizes ongoing and planned improvements to the WWMCCS	Prioritizes WWMCCS-related projects and serves to monitor progress in meeting stated objectives

6. Security and Reproduction Procedures. The security classification of individual volumes of this publication varies. The security protection of this publication will be in consonance with applicable regulations and with the following:

a. A distribution list of addressees and the number of copies for each will be specified in each published volume. Except as provided in this subparagraph and subparagraph 6b below, distribution to addressees not listed in the distribution list of the individual volumes will require approval of the Joint Chiefs of Staff. The foregoing does not preclude the Services from distributing documents internally. However, each Service should ascertain that there is a legitimate requirement for distribution of each complete publication.

b. Individual volumes may be distributed, or extracts of this publication may be reproduced for distribution, by the Chiefs of the Services, the commanders of the unified and specified commands, and directors of Defense agencies to military activities or commands under their jurisdiction. Information should be disseminated in this manner whenever possible in preference to release of the entire publication.

c. Authority to reproduce volumes or extracts of these documents for distribution to agencies or activities outside the jurisdiction of the Joint Chiefs of Staff or the Chiefs of the Services will require approval by the Joint Chiefs of Staff.

## CHAPTER IV

### MANAGEMENT OF INFORMATION AND DATA FLOW WITHIN WWMCCS

1. Purpose. To present the basic policy and procedures governing the management of the formal reports which provide military information required by the NCA.
2. Scope. This chapter summarizes the purpose of JCS Pub 6, "Joint Reporting Structure," which provides for the reporting of information directly related to the planning, execution, and postoperational analysis of military operations. Chapter IV is included herein for completeness in treating the subject of managing the WWMCCS. For the details of operation of the JRS, see JCS Pub 6.
3. Discussion. The JRS reports comprise the major information source for the NMCS Information System. In support of this mission, the information contained in the JRS should be directly relatable to the planning, execution, and postoperational analysis of military operations. This information, however, cannot be limited to that required in the operations functional area. It must include summary data consistent with the specific detail required for other functional areas as well, if the commanders concerned are to be provided with sufficient information to make the broad variety of decisions required for the successful completion of a military operation. The entire JRS will then portray personnel, material and equipment status, operational and logistic planning information, intelligence, and other information applicable to the overall military situation.
4. The JRS was developed to:
  - a. Provide, to the maximum extent possible, the military information required for the NCA to perform their functions.
  - b. Provide a centrally coordinated catalog of recurring joint and individual Service/DOD agency reporting requirements necessary to support command decisions in the planning, execution, and postoperational analysis of military operations.
  - c. Preclude the generation of duplicative recurring reporting requirements by providing an information base to be reviewed by:
    - (1) The OJCS prior to the generation of a new report.
    - (2) The Service/DOD agency staffs prior to the generation of a new report.
  - d. Provide a set of standards for use within the structure to include report description format, card formats, magnetic tape label formats, and transaction codes.
  - e. Enable coordination procedures which would insure prompt and responsive coordination of minor changes. This includes designation of a single point of contact within each Service and DOD agency staff and the OJCS.

## CHAPTER V

### ANNOTATED BIBLIOGRAPHY AND SUPPORTING REFERENCES

1. Purpose. Provide information briefs on significant WWMCCS directives, memorandums, associated studies, and supporting agencies/groups.

2. Scope. This chapter provides a synoptic listing of major sources of WWMCCS guidance.

3. Discussion. The combined information, together with identification of classified subjects, resulting from an exhaustive bibliography of WWMCCS would exceed the security classification of this volume.

a. SM-55-75 is a compilation of directives of the Joint Chiefs of Staff to the commanders of the unified and specified commands.

b. Documents establishing procedural policy, recording agreements between organizations with regard to procedures or responsibilities, and prescribing operational guidance for the WWMCCS subsystems are listed in Volume II of this publication.

4. Selected Bibliography. This paragraph provides a grouping of significant WWMCCS directives, publications, memorandums, and associated studies.

#### a. DOD Directives

(1) DOD Directive 3020.26--Continuity of Operations Policies and Planning. Established DOD policy and provides guidance for planning for continuity of essential operations for the Department of Defense.

(2) DOD Directive 5100.30--World-Wide Military Command and Control System (WWMCCS). Defines the functional, organizational, and operational relationships between all elements of the WWMCCS and provides policy guidance and establishes responsibilities for the management, development, acquisition, and operation of the WWMCCS.

(3) DOD Directive S-5100.44--Master Plan for the National Military Command System. Provides planning guidance for the development, operation, and support of the NMCS.

(4) DOD Directive 5105.9--Defense Communications Agency (DCA). Defines the mission, responsibilities, functions, authorities, and command relationships of DCA and its Director, as well as the relevant responsibilities of DOD components. DCA's WWMCCS-related responsibilities include the DCS; system engineering and technical support to the NMCS and MEECN; MILSATCOM architect functions; and certain other engineering and support functions.

(5) DOD Directive 5105.44--Military Satellite Communications (MILSATCOM) Systems Organization. Establishes a system architect for the totality of defense satellite communications systems to meet the dynamic needs of national security.

#### b. JCS Memorandums/Papers

(1) SM-283-72, 10 June 1972, WWMCCS ADP Program: Mid-Range Plan. A detailed plan for attainment of the broad objectives as stated in Annex E (Joint Strategic Objectives Plan for FY 1974-1981) (JSOP) is required in order to insure orderly and systematic progress in the development of

WWMCCS ADP systems. This plan fills this need, establishes a framework for planning by organizations that support WWMCCS, and provides a basis for determining support requirements.

- (2) JCSM-271-74, 1 July 1974, Worldwide Military Command and Control System Objectives Plan for FY 1975-1994. DOD Directive 5100.30, 2 December 1971, "Worldwide Military Command and Control System (WWMCCS)," directed the development of an overall WWMCCS Objectives Plan. This action submitted an update of the plan to the Secretary of Defense.
- (3) SM-192-72, 28 April 1972, Security Guidance for the WWMCCS Standard ADP Systems. Provides guidance which details developmental objectives, assignment of responsibilities, and an outline for implementing security measures in the WWMCCS Standard ADP Systems.
- (4) SM-259-74/SM-260-74, 6 May 1974, Implementation Plan for the WWMCCS ADP Program. Updates the implementation plan to reflect additional information to provide the degree of planning, programming, and budgeting visibility of the 35 computer systems required by the Secretary of Defense, Office of Management and Budget, and the US Congress.
- (5) SM-365-72, 10 July 1972, Communications Support for the WWMCCS ADP Program. Provided DCA with initial guidance necessary to develop a plan for communications support for the WWMCCS ADP Program and indicated that plans for the direct interconnection of specific WWMCCS Standard Systems would be developed by the Joint Chiefs of Staff.
- (6) SM-437-72, 15 August 1972, Documentation Standards for the WWMCCS Standard Systems. Established standards for documentation of computer programs within the WWMCCS Standard System. These consist of a series of instructions for documenting computer programs from definition and design through full development.
- (7) Annex E (Command and Control) to JSOP FY 77-84, Appendix to SM-59-75, 24 January 1975. Identified and provided to the Secretary of Defense the major command and control objectives of the Joint Chiefs of Staff.
- (8) SM-573-73, 20 December 1973, Continuity of Operations Plan for the Organization of the Joint Chiefs of Staff. Provides continuity of strategic direction of the US Armed Forces.
- (9) SM-11-74, 9 January 1974, the National Military Command System Five-Year Master Objectives Program for FY 1976-1980. Programs for improvement of the NMCS during the period FY 1974-1978.
- (10) FY 76-85 MEECN Master Plan (FY 76-85 MMP). The MMP is a system engineering guidance and program planning document prepared in response to the requirements of the Joint Chiefs of Staff and the Secretary of Defense to provide recommendations for improvement to the MEECN on an annually consolidated basis. This document serves to support Defense Planning and Programming Guidance to the MILDEP and DOD agencies involved.

c. Associated Studies/Papers

- (1) DCA Circular 900-55-1, 30 June 1970, National Military Command System (NMCS) System Description (U). Describes NMCS organization, responsibilities, functions, operation, physical plant, ADP, and communications.

(2) DCA Command and Control Summary TR 950-1-72, June 1972, NMCS Applications Software Description. This document focuses on identifying and describing, at a summary level, the applications software required to execute NMCS command and control subsystems. The mission, concept of operations, and subsystems processing are detailed as well as the inputs, files/data bases, programs/processors, and outputs for each of the eight subsystems discussed. In addition, subsystem roles and interrelationships with respect to their use of applications software are investigated.

5. Supporting Agencies/Groups

a. WWMCCS ADP Users Group. This group provides a forum for the exchange of ideas and surfacing of problems among members of the WWMCCS ADP community. The group has no policy-making functions but rather provides recommendations to the WWMCCS Project Management Office.

b. WWMCCS Informal Forum. DJSM-1560-72, 14 August 1972, "Informal Forum for Discussing WWMCCS Progress and Problems," established this forum to enable the Director for Operations to meet periodically with representatives of the Services, DCA, DIA, and NSA/CSS to discuss WWMCCS progress and problems. This informal arrangement is intended to improve communications among the major Washington participants in the WWMCCS and to provide a forum where anticipated problems can be resolved by thorough discussion at the senior officer level.

c. WWMCCS Council Support Group. This group consists of three members: one appointed by the Chairman, Joint Chiefs of Staff; one appointed by the Assistant Secretary of Defense (Intelligence); and one appointed by the Director, Telecommunications and Command and Control Systems. The group assists in planning of the workload of the WWMCCS Council. It processes for consideration by the WWMCCS Council such plans, studies, reports, and recommendations submitted by the OJCS, the Joint Chiefs of Staff, OSD, or Council members. It develops, coordinates, and issues for the Council the agenda and briefing schedules for meetings of the WWMCCS Council. Additionally, it arranges technical assistance briefings for the Council.

d. ADP Standardization Update Working Group. This is an ad hoc working group with representatives from the Services, DCA, and DIA, meeting as required. The group is to provide required Service and agency representation to the Project Manager, WWMCCS ADP Program, during the development of the WWMCCS Standard ADP System. Additionally, the group is to provide technical liaison to the JTSA as required.



ANNEX A

WWMCCS RESOURCE IDENTIFICATION LIST\*

AABNCP  
AFSATCOM  
ANMCC  
BMEWS  
CINCLANT ABNCP  
CINCPAC ABNCP  
DSCS  
DSP  
GREEN PINE  
GRYPHON  
HYDRUS  
NEACP  
NMCC  
OTH RADAR (440L)  
PACCS  
SAC HF/SSB  
SAC PAS  
SANGUINE  
SATIN IV  
SLBM DETECTION AND WARNING (474N)  
SURVSATCOM  
TACAMO  
TACSATCOM  
USCINCEUR ABNCP  
UNIFIED AND SPECIFIED COMMAND PRIMARY COMMAND CENTERS (RDT&E and investment costs only)

\* FLTSATCOM is a system which, though not dedicated to the WWMCCS and not included under WWMCCS management, is available to contribute support to the NCA in a crisis situation. Program and resource information will be provided in accordance with instructions of Annex E of this publication.

ANNEX B

MANAGEMENT PROCEDURES FOR THE WWMCCS STANDARD ADP SYSTEM

(To be published at the next revision of JCS Pub 17. When JCS Pub 17 is next revised, it will be formatted as Annex B of this publication, issued as such, and rescinded as a separate publication.)

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ANNEX C

POLICY FOR MODIFICATION AND IMPROVEMENT OF THE NMCS

(To be published at the next revision of JCS Memorandum of Policy No. 170. When JCS Memorandum of Policy No. 170 is next revised, it will be formatted as Annex C of this publication, issued as such, and rescinded as a separate publication.)

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ANNEX D

FORMAT FOR THE SUBMISSION OF WWMCCS OPERATIONAL REQUIREMENTS

(The OR provides the originator of the requirement an opportunity to express, in nontechnical language, the essential element of the requirement. It should contain as much of the information indicated below as possible, based on best estimates. ORs for ADP equipment and software will be processed in accordance with procedures of Annex B, and data will be refined as they proceed through staff coordination.)

WWMCCS REQUIRED OPERATIONAL CAPABILITY FOR:

Insert short descriptive title of the requirement.  
Include security classification, if applicable.  
Unclassified titles are desired.

SECTION I. STATEMENT OF REQUIREMENT

1. Description. Describe the requirement by indicating:
  - a. General characteristics in sufficient detail to present a clear picture of the requirement. Characteristics stated will represent mandatory or minimum acceptable performance features unless indicated as "desirable"; i.e., those features to be achieved without disproportionate increase in cost, complexity, and leadtime while maintaining the required standards of reliability and maintainability.
  - b. The effect the OR will have on the WWMCCS capability to support the NCA.
  - c. Whether the requirement is for a new item or a replacement. Indicate its relationship to other ORs and to other items or material in use.
  - d. Broad concept of employment of the requirement (how, when, where, and by whom).
  - e. Other standard or developmental equipment with which the requirement must be compatible.
  - f. Recommended security classification of the requirement, of the development effort, and other restrictions.
  - g. Desired CY of initial and/or full operational capability.
  - h. Recommendations for Service/Defense agency responsible for development and funding.

SECTION II. JUSTIFICATION

2. Reason for Requirement. State why existing system cannot satisfy requirement. Indicate objectives, missions, or functions that will be prejudiced by failure to develop the proposed requirement. Relate the OR to one or more specific WWMCCS objectives. State why it will make a major contribution to effective command and control for the period in which it is required. Cite enemy threat from approved intelligence estimates. Additionally, furnish information on:
  - a. Time-phasing of requirement in relation to present installation and future objectives.

JCS PUB 19  
VOLUME I

b. Make reference to studies, exercise reports, or other documents which bear on the requirement.

### SECTION III. OPERATIONAL CONCEPT, FEASIBILITY, AND PRIORITY

3. Operational Concept. Describe envisaged operational concept in sufficient detail to permit planning for integration into the WWMCCS. Include consideration of:

- a. Command centers for which the requirement is applicable and numbers required.
- b. Whether continuous or intermittent operation is planned.
- c. What the requirement will accomplish, such as effects achieved strategically, technically, or administratively.
- d. How and when the required capability will be operationally employed and controlled.
- e. How the new capability will operationally interface when employed with other systems as appropriate.

4. Technical Feasibility. Specify feasibility studies, component development, or other technical data related to the requirement which will assist in determining the technical feasibility of the requirement. (After research of the user input, a technical feasibility statement and a statement regarding industrial potential to support a requirement will be made in the TA/CE which is prepared by the supporting Service/Defense agency.)

5. Priority Category. Recommend category of urgency priority of the OR. The purpose of establishing priority categories is to furnish guidance on the degree of urgency associated with a requirement to supporting Service/Defense agencies for programming and justification of funds and personnel in meeting the requirement. Priority categories will be assigned in accordance with the following definitions:

- a. Category I. Requirement is essential for successful strategic direction of the Armed Forces by the NCA.
- b. Category II. Requirement will substantially increase the effectiveness of either national level command and control or that of other WWMCCS users or will provide such marked improvement of existing capabilities that complete or extensive replacement would be justified.
- c. Category III. Requirement is necessary to complement higher category requirement and improve overall effectiveness of either national level command and control or that of other WWMCCS users.
- d. Category IV. Requirement will maintain effectiveness of the system at reduced cost.

### SECTION IV. CHARACTERISTICS

6. Performance Characteristics. List specific performance characteristics to permit clear understanding of features that are "essential," if known, to the capability's acceptance. List also features that are "desirable"; i.e., desired if achievable without a disproportionate increase in cost, complexity, and leadtime while maintaining required standards of reliability and maintainability. Performance characteristics should provide sufficient guidance to form the basis

for technical characteristics and preliminary engineering design. These characteristics influence the development of the capability more than any other portion of the OR. Describe what the capability should do and specify both upper and lower performance limits. As a general guide, include applicable reliability characteristics and, as applicable:

a. Improvements expected in (1) efficiency of gathering, processing, or disseminating information; (2) SIOP execution or monitoring; or (3) support of the NCA or other WWMCCS users.

b. A complete operational profile which describes functions, time required to accomplish the functions, dynamic actions or changes that occur, job title or description of individual who will use the resulting capability, and reaction time required.

7. Security Considerations. Describe those security requirements considered essential by users, including aspects of OPSEC and COMSEC; e.g., transmission, emission, cryptographic, and physical security elements. Insure that qualitative COMSEC requirements are an integral part of the system planning and development.

8. Physical Characteristics. Those characteristics considered necessary by the user to influence development. Items to include, as appropriate:

a. System weight limits.

b. Configuration, silhouette, dimensional and cube limitations, crew space, and operator station layout.

c. Durability factors to indicate degree of ruggedness.

d. Security requirements to include TEMPEST considerations, if required.

e. Vulnerability factors, specifying hardening required or desired in terms of nuclear effects environments in which the material would be required to survive. The effect levels specified should include blast, ground shock, thermal radiation, nuclear radiation, and electromagnetic pulse. Consideration should also be given to any shock-mounting requirements for sensitive equipment.

9. Maintenance Characteristics. State those maintenance characteristics operationally required by the user. Give consideration to:

a. Design to permit ease of accessibility to often checked items.

b. Incorporation of "go-no-go" simple test equipment or procedures.

c. Use of quick disconnect type fittings on electrical connections and harnesses or other interface surfaces where design will permit use of quick disconnect fittings.

d. Type and level of maintenance support envisaged; e.g., contract or user.

10. Human Engineering Characteristics. State user requirements for compatibility with physical and mental capabilities of operating personnel. For example:

a. Information needs for operator decision; e.g., fields of view, warning alarms, and communications.

b. Procedures for allocating functions between man and machine.

11. Priority of Characteristics. List physical, maintenance, and human engineering characteristics in relative order of priority to the user.

12. Quantitative and Qualitative Personnel Considerations. In consonance with the stated operational concept for the installation, state the user requirements for personnel to maintain and operate the material. For example:

a. Total personnel requirements, saving in personnel, or generation of additional personnel requirements.

b. Description of requirements for new skills, knowledge, and special arts.

13. Training Considerations. State training requirements envisaged by the user to be necessary, including, if possible, the concept of how training should be accomplished; e.g., school, contractor.

#### SECTION V. ASSOCIATED CONSIDERATIONS

14. Related Capabilities. Include requirement for other new capabilities and special requirements that will be necessary as a result of the OR, such as COMSEC equipment, additional electric power, and environmental control needs. ORs for ADP equipment will include comments as to related software requirements.

15. Additional Comments. Include any other information not included in the foregoing that may be helpful in understanding the requirements.

ANNEX E

FORMAT FOR TECHNICAL ANALYSIS AND COST  
ESTIMATE FOR WWMCCS OPERATIONAL REQUIREMENTS

EXECUTIVE SUMMARY

1. Scope. State the purpose of the TA/CE being summarized, identify the specific OR to which the TA/CE is related, and provide a brief description of the scope of the TA/CE.
2. Background. Include all essential information required to understand the document. Present material in a logical and sequential manner.
3. Summary. Summarize the facts presented in the TA/CE. This should include all alternatives and should not be a generally worded abstract.
4. Conclusions and Recommendations. Point out the most desirable course of action (best alternative) and summarize the reasons for selecting that alternative, including any associated risks. Recommendations will not be limited to the alternative but may include other items, if appropriate (further studies, etc.). The Executive Summary should be a stand-alone section of the TA/CE.

TECHNICAL ANALYSIS/COST ESTIMATE

1. Introduction. Include the objective of the TA/CE and detailed background information about the subject, as well as such items as threats, desired goals, existing capabilities, etc.
2. Technical Feasibility Factors Analysis. Include the technical feasibility for developing and producing capabilities to satisfy the requirements within the timeframe specified. Include identification and assessment of technical risks that may influence effectiveness, cost, and operational date of the requirements.
3. Alternatives. Present each alternative (description, risks, costs, rough schedules, advantages, disadvantages). Analyze alternatives, including benefit and cost estimate, lease versus buy, etc. Only the two, or at most three, most viable alternatives should be presented. Other alternatives and the rationale for rejection may be presented concisely to show that they were considered.
4. Recommended Alternative. Address conceptual information to the extent feasible, including, if possible:
  - a. Project Engineering Concept. Scope of the recommended alternative, its general configuration, and other technical characteristics. Relationship between this approach and ongoing or programmed future projects/programs will be discussed. Included, as available, will be appropriate consideration of the following:
    - (1) Summary of required equipment.
    - (2) Statement of the interface and integration requirements.
    - (3) Identification of required documentation.
    - (4) Required ancillary equipment.
    - (5) Security requirements.



(6) Facility requirements.

(7) Engineering support requirements.

b. Project Implementation Concept. Nominations of the Service or Defense agency to perform the implementation/installation will be given. Training and logistic support to be furnished as part of implementation phase and initial operational capability will be addressed. An implementation schedule to include key milestones and the relationships between key events will be provided if available.

c. Conclusion. A general conclusion supporting or suggesting modification to the OR, with accompanying rationale.

5. Cost Estimate. It is recognized that complete and detailed cost and manpower information may not be readily available at this stage of development. To the extent it is available, it should be presented in the following format when applicable:

a. Summary of Cost and Manpower Estimates\*

(1) Army (PE**)	Prior Yrs	Current Yrs	Budget FY	Four FY	Out FY	Years FY FY
-----------------	--------------	----------------	--------------	------------	-----------	----------------

(a) Funds (\$ in thousands).

R&D.

Procurement.

Construction.

O&M.\*\*\*

Military Pay.

(b) Manpower (in units).

Military (end strength).

Officers.

Enlisted.

\* Reflect only the additive costs resulting from the improvement or addition of facilities covered by this plan. Do not include previously existing ongoing costs.

\*\* Insert applicable PE number here.

\*\*\* Breakout by object class identification; e.g., civilian personnel, supplies, O&M contracts.

Approved For Release 2002/05/07 : CIA-RDP84-00933R000200030001-8

(c) Civilian (end strength).

United States.

Foreign.

(Man-year Increments).

United States.

Foreign.

(2) US Navy.

(3) US Air Force.

(4) DCA.

(5) Other (identify).

(6) Total.

Note. Provide breakdown for each section (2) through (6), as applicable, in the same format as (1) above. Number subparagraphs (1) through (6) consecutively, as used. Sum of dollars and manpower in (1) and (5) must equal total in (6).

b. Rationale. Explain briefly the basis for computations, phasing of cost and manpower estimates in relation to work schedule, estimated procurement leadtime and major items of cost (leases, contractual operations, ADP, other station facilities, transmission media, etc.). Note anticipated problem areas, if any.

c. Cost Offsets Summary (if applicable)

<u>Description</u>	<u>Prior</u> <u>Yrs</u>	<u>Current</u> <u>Yrs</u>	<u>Budget</u> <u>FY</u>	<u>Four</u> <u>FY FY</u>	<u>Out</u> <u>FY</u>	<u>Yrs</u> <u>FY</u>
1. One-time cost (list)						
2. Recurring costs (list)						

Approved For Release 2002/05/07 : CIA-RDP84-00933R000200030001-8

## ANNEX F

## INSTRUCTION FOR PREPARING WWMCCS REQUIREMENT AND RESOURCE REPORTS

1. Subject and Purpose. To provide the WWMCCS Council and Joint Chiefs of Staff with program and resource data for specific WWMCCS systems and identified ORs. The reports described in this annex are provided in conjunction with the requirements established in paragraph 5, Chapter II, and supplement the information contained in Service/Defense agency Annex B submissions of WWMCCS ADP resources, the annual Service/Defense agency POM, and budget estimate submissions to the Secretary of Defense.

2. Submitted By. The reports will be submitted by the headquarters of the parent/supporting Service/Defense agency responsible for funding of the WWMCCS systems and programs identified in Annex A and the ORs identified in the current issue of the WWMCCS Objectives Plan.

3. Submitted To:

Joint Chiefs of Staff (Director for Operations)  
ATTN: WWMCCS Plans Division  
Washington, D.C. 20301

4. When Submitted. Submissions, keyed to events in the planning, programming, and budgeting cycle, will be made annually when the Service/Defense agency submits its POM. Program Decision Memorandums and Program Budget Decisions which change the primary submissions will be provided to the Joint Chiefs of Staff, including appropriate annotations to facilitate posting of changes to the primary submissions. The required reports will be provided at the same time the appropriate PPBS documents are submitted to the Secretary of Defense.

5. Specific Reporting Instructions. Services/Defense agencies will report in accordance with the following instructions:

a. WWMCCS Requirement Report

- (1) A separate report will be submitted for each OR identified in Volume VI of this publication as part of the WWMCCS.
- (2) Unfunded requirements will be identified as such.
- (3) Total resources, both manpower and costs, will be included for each requirement.
- (4) See Figure F-1 for format and additional instructions.

b. WWMCCS Resource Report

- (1) A separate resource report will be submitted for WWMCCS systems specifically identified in the WWMCCS Resource Identification List contained in Annex A of this volume of the publication.
- (2) The data provided for each such system will include resource information for that system only.
- (3) If resources for a specific WWMCCS system element are contained in more than one PE, a separate report for each PE will be provided.
- (4) The resource data to be submitted for the specified WWMCCS system will consist of:

- (a) RDT&E costs for the WWMCCS warning systems, major communications systems, the NMCS, and command center facilities.
  - (b) Investment cost (procurement and military construction) for the WWMCCS warning systems, major communications systems, the NMCS, and command center facilities.
  - (c) Operating costs for the WWMCCS warning systems, major communications systems, the NMCS, and the ABNCs of USCINCEUR, CINCLANT, CINCPAC, and CINCSAC. Operating costs will not be required for those command and control systems for which such information is not clearly identifiable.
- (5) If a WWMCCS Resource Report contains resource data that are included in WWMCCS Requirement Report, that requirement will be identified by number.
- (6) See Figure F-2 for format and additional instructions.

WWMCCS REQUIREMENT REPORT  
REQUIREMENT IDENTIFIER\*

1. Date of Preparation:
2. Program Data:
  - a. (Brief description of requirement, to include project name(s), if any. Not required if current Volume VI description is accurate.)
  - b. (Program abstract):
    - (1) Progress to date in fulfilling requirement (narrative).
    - (2) Milestone information, to include estimated initial operational capability.
    - (3) Major issues and/or problem areas.
    - (4) RDT&E projects, procurement items and quantities, and military construction projects, as appropriate.
3. Resource Report:
  - a. Report in thousands.
  - b. If resources for the requirement are contained in more than one PE, provide data below for all such PEs; if the requirement is not programmed, so state.

	FISCAL YEARS						
	PRIOR YEAR	CURRENT YEAR	BUDGET YEAR	BY+1	BY+2	BY+3	BY+4
Program Element No. _____							
<u>Manpower</u>							
Civilian end-strength							
Officer							
Enlisted							
Total military end-strength							
Total end-strength							
<u>Costs (\$ in thousands)</u>							
<u>RDT&amp;E</u>							
Procurement (by type; i.e.,							
aircraft, missile, other)							
Military construction							
Operation and maintenance							
Military personnel							
Total							

\* From current Volume VI of this publication if included therein.

WWMCCS RESOURCE REPORT  
(WWMCCS SYSTEM TITLE)

Date of Preparation: \_\_\_\_\_

	<u>PRIOR YEAR</u>	<u>CURRENT YEAR</u>	<u>FISCAL YEARS</u> <u>BUDGET YEAR</u>	<u>BY+1</u>	<u>BY+2</u>	<u>BY+3</u>	<u>BY+4</u>
Program Element No. _____							
<u>Manpower</u>							
Civilian end-strength							
Military end-strength							
Officer							
Enlisted							
Total military end-strength							
Total end-strength							
Cost (\$ in thousands)							
RDT&E							
Procurement (by type; i.e.,							
aircraft, missile, other)							
Military construction							
Operation and maintenance							
Military personnel							
Total							

RDT&E and Investment Summary: (Identify RDT&E projects, procurement items and quantities, and military construction projects, as appropriate.)

WWMCCS Requirement No. (For use only if the resource data above include resources which are also reported as a WWMCCS requirement.)

Figure F-2

F-4

Approved For Release 2002/05/07 : CIA-RDP84-00933R000200030001-8

ANNEX G

OUTLINE AND SUBMISSION SCHEDULE OF  
MASTER PLANS AND SUMMARY PLANS

1. Plans are submitted to the Chairman, Joint Chiefs of Staff, by each commander of a unified or specified command, by the Service headquarters of the Military Departments, and by the Defense agencies.
2. The plans submitted by a commander of a unified or specified command is called a "Command and Control System Master Plan." This is a document which sets forth the concept, description, and general improvement plan for the command and control system required for support of the NCA. It describes the composition of the command and control system and the functional and organizational relationships among all elements of the system. It provides policy guidance and objectives for the development and operation of the system and describes specific ORs for improvement of the system.
3. The plan submitted by a Service headquarters of a Military Department and by a Defense agency is called a "Command and Control System Summary Plan." This document sets forth, in summary form, the concept and description of the WWMCCS-related management/information systems of the Service headquarters of the Military Departments and the WWMCCS-related portion of the command and control support systems of the Defense agencies. It describes the general composition and capabilities of the command and control system and presents an overview of the functional and organizational relationships related to interoperability with and responsiveness to the NMCS.
4. Command and Control System Master Plans will be submitted and updated at least annually in accordance with the following schedule:
  - ADC--November
  - SAC--December
  - LANTCOM--January
  - PACOM--February
  - USEUCOM--November
  - USREDCOM--December
  - USSOUTHCOM--January
5. Command and Control System Summary Plans will be submitted and updated at least annually in accordance with the following schedule:
  - US Army--October
  - US Navy--November
  - US Air Force--December
  - US Marine Corps--January
  - DCA--February
  - DIA--October
  - DMA--November
  - DNA--December
  - DSA--December
  - NSA/CCS--February
  - DCPA--February.

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ANNEX H

PROCEDURES FOR CHANGING THE WWMCCS  
OBJECTIVES AND MANAGEMENT PLAN

1. Purpose. This annex prescribes procedures for the expeditious handling of changes to this publication.

2. Points of Contact

a. Each of the Services and DOD agencies will designate a point of contact for all matters relating to the WWMCCS Objectives and Management Plan. Because the WWMCCS Objectives and Management Plan covers a wide range of topics, separate points of contact from different organizations may be assigned to individual volumes of this publication. The appropriate points of contact will be listed in each volume.

b. Points of contact for Volume I, "Management of the WWMCCS":

	<u>Office/Agency*</u>	<u>Telephone Number</u>
OJCS (Operations Directorate**)	WWMCCS Plans Division	OX 57157
US Army	DAMO-TCW	OX 56000
US Air Force	XOCC	OX 50109
US Marine Corps	POM-20 (Operations Div, USMC Hq)	OX 48780
DCA	NMCS Technical Support Directorate	OX 26063
DIA	DIA/JS	OX 78782
DMA		
DNA		
NSA/CSS	Support Plans Division (N-12)	688-6411

3. Changes. Changes to the WWMCCS Objectives and Management Plan include additions and revisions resulting from new policies, procedures, and requirements, as well as revisions to existing WWMCCS Management and Objectives Plan content resulting from system development.

4. Deletions. The deletion of information will generally result from the normal review of the WWMCCS Objectives and Management Plan conducted by the OJCS with the assistance of the points of contact of the Services and DOD agencies. However, any Service or DOD agency desiring an earlier deletion than that which would result from such a review may recommend such by the same procedures set forth for changes.

5. Administrative Procedures. This publication will be continually reviewed to insure that it contains current information. Charts, graphs, and tables to display appropriate data will be used to a maximum in lieu of narrative.

a. Terms defined as follows are used in administrative or guidance instructions.

(1) Restructure. Requires a major change in format or scope; normally will require reissue of one or more complete volumes/chapters of the publication.

\* To be added after Service/agency inputs have been reviewed.  
\*\* WWMCCS ADP Management Division is point of contact for Annex B.



(2) Revise. Requires major change of text and displays; normally will require reissue of one or more complete volumes/chapters of the publication.

(3) Update. Requires minor revision of text and illustrations; normally accomplished by corrigendum.

(4) Review. Requires examination of contents of text and illustrations in light of new guidance, current status, or known changes since publication to determine need for restructuring, revising, or updating. Analysis may be required as part of the review and, where applicable, will form a part of the review action.

b. The Director for Operations, OJCS, has overall responsibility for the publication, review, restructuring, revision, and update of this publication. This publication will be updated as required in accordance with JCS approved procedures.

c. All users are encouraged to submit proposed changes, additions, and deletions or recommendations for improvement of this publication to the Joint Chiefs of Staff. Recommendations should be submitted through normal channels to the Director, Joint Staff, Washington, D. C. 20301.

d. When a new document relating to WWMCCS is considered for publication, coordination with the organizations listed as points of contact in the applicable volume of the WWMCCS Objectives and Management Plan will be made to establish the relation of the proposed document to the WWMCCS Objectives and Management Plan and to avoid the publication of redundant information.

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ANNEX I

GLOSSARY AND DICTIONARY

1. Purpose. The purpose of Annex I is to provide:
  - a. Definitions and explanations of acronyms and abbreviations of terms used in this publication.
  - b. A dictionary for terms and phrases having specific meaning within the WWMCCS context.
2. Applicability. Annex I is the official WWMCCS glossary and dictionary. For terms not defined herein, consult JCS Pub 1, "Department of Defense Dictionary of Military and Associated Terms," and the current issue of the OMB approved vocabulary for information processing.
3. Discussion
  - a. Acronyms and abbreviations contained herein are the only authorized forms.
  - b. Care should be taken to apply to phrases and terms the meaning defined in the dictionary when these terms or phrases are used in the WWMCCS context.
  - c. Annex I supersedes all other WWMCCS glossaries and dictionaries. Further publication of such documents is hereby made unnecessary.
  - d. Changes, additions, deletions from this chapter are subject to the procedures of Annex H of this volume.
4. Dictionary
  - a. Acknowledgment Memorandum. The Acknowledgment Memorandum is the vehicle by which the Joint Chiefs of Staff acknowledge receipt of an SDN. The Acknowledgment Memorandum is general in nature and is used in several ways with a variable format.
  - b. ADP Contractual Services. "All services in support of an ADP requirement and obtained on a contractual basis, including, but not limited to: machine time, operations, maintenance, and engineering modifications; training; and professional services such as programming, systems analysis, systems design, systems engineering, and consulting." (As defined in DOD Directive 5100.40, "Responsibilities for the Administration of the Automatic Data Processing Program," 18 May 1970.)
  - c. ADP Cost Summary. The ADP cost summary is a summary of Service/agency backup documentation for budget submissions.
  - d. Automatic Data Processing Equipment (ADPE). "General purpose, commercially available automatic data processing components and the equipment systems created from them, regardless of use, size, capacity, or price, which are designed to be applied to the solution or processing of a variety of problems or applications and which are not specifically designed, as opposed to configured, for any specific application." (DOD Directive 5100.40, "Responsibilities for the Administration of the Automatic Data Processing Program," 18 May 1970.)

Approved For Release 2002/05/07 : CIA-RDP84-00933R000200030001-8

e. ADP Equipment Categories\*

(1) The participants in the WWMCCS ADP Program may be categorized by type of ADP equipment possessed. The two categories of systems and facilities are defined below:

(a) WWMCCS Standard System--This term is used to describe the collection of ADP hardware/software systems being procured from Honeywell Information Systems, Inc., under the WWMCCS ADP Program.

(b) WWMCCS Nonstandard ADP Facilities--This term is used to describe those systems possessing other types of ADP equipment involved in supporting the WWMCCS or the IDHS activities.

(2) Selected IDHS activities provide support to the WWMCCS through the input of finished intelligence products into command and control channels. This is in addition to the primary IDHS function of providing automated support to the intelligence mission. In this context, IDHS activities are identified as candidates for acquisition of a WWMCCS Standard System. This acquisition will promote increased compatibility between command and control and intelligence processes in the above WWMCCS-oriented intelligence input function.

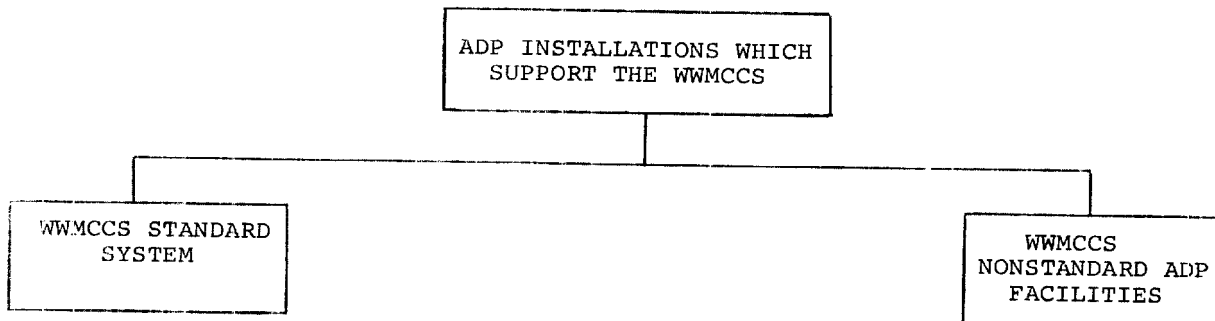
(3) The headquarters/activities which are involved in WWMCCS, IDHS, or WWMCCS-oriented support and provide the basis for the composition of the ADP installations supporting the WWMCCS fall within the categories listed below:

(a) WWMCCS Activities--as defined by DOD Directive 5100.30, "Worldwide Military Command and Control System (WWMCCS)" (see the definition for "WWMCCS").

(b) IDHS Activities--in accordance with paragraph 2 above.

(c) Service Subordinate Headquarters--other than component commands and activities, when requested by the Services and approved by the Joint Chiefs of Staff and the Secretary of Defense.

(4) Graphically, the ADP installations which support the WWMCCS can be displayed as follows:



\* The current list of those participants in the WWMCCS ADP Program is contained in the latest published "Implementation Plan for the Worldwide Military Command and Control System Automatic Data Processing Program."

Approved For Release 2002/05/07 : CIA-RDP84-00933R000200030001-8

Approved For Release 2002/05/07 : CIA-RDP84-00933R000200030001-8

f. ADP Incident. An ADP incident is a malfunction or unusual, undesired, or unexpected event that occurs during system operation. These incidents may be caused by hardware, software, data base, or operating procedures.

g. ADP Personnel.# "All government personnel, both civilian and military, who as their principal duty are identified with ADP functions, including, but not limited to:

(1) "ADP administration (e.g., planning and coordinating ADP programs and activities; reviewing, recommending, or selecting ADPE; and approving the acquisition of ADP equipment or services)."

(2) "Training."

(3) "Design, development, programming, and implementation of automated data systems."

(4) "Provision of ADP services on a consulting or project basis."

(5) "ADP operations (e.g., ADPE operation and maintenance, keypunching, etc.)."

h. ADP Program.\* "The sum of all objectives, plans, policies, directives, procedures, and criteria (including the time-phased schedules of events and resource requirements) established and pertaining to:

(1) "The acquisition, use, and management of ADP resources."

(2) "The design, development, control, improvement, and standardization of automated data systems."

i. Automated Data System.\*\* "An assembly of procedures, processes, methods, routines, or techniques (including, but not limited to, computer programs as defined below) united by some form of regulated interaction to form an organized whole, specifically designed to make use of automated data processing equipment."

j. Automatic Data Processing System (ADPS).\*\* "An interacting assembly of procedures, processes, methods, personnel, communications, and automatic data processing equipment to perform a series of data processing operations--a combination of automatic data processing resources and automated data systems."

k. Automated Data Processing Standards Policy Group (ASPG). Exercises monitoring, review, approval, and recommendations in certain functional areas of the WWMCCS ADP Program. The ASPG includes representatives of the Military Services, DIA, and DCA and is chaired by a representative of the OJCS.

l. ADP Standardization Working Group (ADPSWG). An ad hoc working group of Service, DCA, and DIA representatives which provides support to the ASPG on technical matters relating to the WWMCCS Standard Systems.

\* As defined in DOD Directive 5100.40, "Responsibilities for the Administration of the Automatic Data Processing Program," 18 May 1970  
\*\* As defined in DOD Directive 4105.55, "Selection and Acquisition of Automatic Data Processing Resources," 19 May 1970

Approved For Release 2002/05/07 : CIA-RDP84-00933R000200030001-8

- m. Approving. The decision by competent authority to proceed with actions to satisfy a validated OR in accordance with established PPBS procedures.
- n. Command and Control. The exercise of authority and direction by a properly designated commander over assigned forces in the accomplishment of his mission. These functions are performed through an arrangement of personnel, equipment, communications, facilities, and procedures which are employed by a commander in planning, directing, coordinating, and controlling forces and operations in the accomplishment of his mission. (JCS Pub 1)
- o. Common Hardware/Software. Common hardware/software packages are those packages, other than WWMCCS standard, which are in general use by two or more users of the WWMCCS Standard System on a regular basis.
- p. Computer Program. "A series of instructions or statements in a form acceptable to an electronic computer, designed to cause the computer to execute an operation or operations. Computer programs include software such as operating systems, assemblers, compilers, interpreters, data management systems, utility programs, sort-merge programs, and ADPE maintenance/diagnostic programs; as well as applications programs such as payroll, inventory control, and engineering analysis programs. Computer programs may be either machine-dependent or machine-independent, and may be general-purpose in nature or designed to satisfy the requirements of a particular user." (As defined in DOD Directive 4105.55, "Selection and Acquisition of Automatic Data Processing Resources," 19 May 1972.)
- q. Designated Development Activity. The activity assigned responsibility by the Service/agency as the Designated Responsible Activity for the design, development, and maintenance of specified standard software capability.
- r. Designated Responsible Activity. The activity assigned responsibility by the Joint Chiefs of Staff for the design, development, and maintenance of specified standard software capability.
- s. Engineering Change Proposal (ECP). An ECP is a formal document prepared in accordance with Military Standard 480-481, "Configuration Control - Engineering Changes, Deviation, and Waivers."
- t. Facilities of Command and Control Systems
- (1) Command Facility. A facility from which a commander, his representatives, and supporting staff direct operations and control forces. It provides the means to perform the command and control functional tasks and to interface with other information systems and organizations.
- (a) Primary Command Facility. The command facility at the primary headquarters of the organization.
- (b) Alternate Command Facility. A command facility, remote from the primary facility, which is continuously operating to support continuity of operations in the event a surprise attack destroys or incapacitates the primary facility.
- (c) Emergency Relocation Site. A command facility, remote from the primary facility, which is maintained in an inactive or standby status for relocation of personnel from the primary headquarters for continuity of operations in the event warning time of an attack is available.
- (d) Alternate Headquarters Command Facility. The primary command facility of a designated subordinate command which is expected to survive an attack that would destroy the senior commander's primary facility. This facility would provide for continuity of operations in

the event the senior commander's primary facility is destroyed or incapacitated and an alternate command facility is not available.

u. Goal. A broad qualitative expression of ultimate performance toward which improvement and development of command systems is directed.

v. Initiation of WWMCCS ORs. The procedure by which present WWMCCS capabilities are evaluated against objectives to identify operational deficiencies and by which requirements are submitted to correct these deficiencies.

w. In-Process Review (IPR). Informal review by or for the PM to monitor the development of a major deliverable item under the WWMCCS contract, or the development of standard software by a designated activity.

x. Intelligence Data Handling System (IDHS). Information systems which process and manipulate raw information and intelligence data, as required. They are characterized by the application of general purpose computers, peripheral equipment, and automated storage and retrieval equipment for documents and photographs. While automation is a distinguishing characteristic of the IDHS, individual system components may be either automated or manually operated. Selected IDHS activities provide support to the WWMCCS through the input of finished intelligence products into command and control channels. This is an addition to the primary IDHS function of providing automated support to the intelligence mission.

y. Interface. A boundary or point common to two or more similar or dissimilar command and control systems, subsystems, or other entities against which or at which necessary information flow takes place. (JCS Pub 1)

z. Joint Technical Support Activity (JTSA). The JTSA is a jointly manned activity managed by the Director, DCA, under the operational direction of the Joint Chiefs of Staff. Management direction of the JTSA and policy guidance on matters pertaining to the assigned DCA responsibility to establish and operate the JTSA are exercised by the Joint Chiefs of Staff through the Director, DCA. Operational direction of the JTSA pertaining to technical support within the responsibilities of the Joint Chiefs of Staff for management of the WWMCCS Standard Systems will be exercised through the Director, Joint Staff, to the DCA official charged with the responsibility for technical support functions. The primary mission of the JTSA is to provide centralized technical support to the Joint Chiefs of Staff, Services/agencies, and unified and specified commands for the WWMCCS Standard Systems.

aa. Justification, Approval, and Acquisition Documentation (JAAD). The JAAD comprises copies or abstracts from those documents established by Service/agency policy and procedures in which the operational requirement is identified, reviewed, and validated; resource requirements are identified; and the ADP system configuration best suited to fulfill the requirement is selected and approved.

bb. Maintenance Analyst Report. The Maintenance Analyst Report provides to users acknowledgment of and response to ADP Incident Reports.

cc. NCA. The President and the Secretary of Defense or their duly deputized alternates or successors. (JCS Pub 1)

dd. NMCS. The NMCS is the priority component of the WWMCCS designed to support the NCA in the exercise of their responsibilities. It also supports the Joint Chiefs of Staff in the exercise of their responsibilities. (DOD Directive 5100.30)

ee. Objective. A statement of aims to which resources should be allocated in order to support the established goals of the system. Objectives should be sufficiently definitive to provide guidance for the evolutionary development and improvement of the WWMCCS.

ff. Operational Direction. Those functions required in connection with the supervision of operations. These functions include the establishment of goals, the planning of actions, the issuance of authoritative instructions, and the controlling of their execution by the operating forces. These functions of operational direction apply to all aspects of the operation and are not limited by the restriction on operational command.

gg. Operating Forces. Those forces whose primary missions are to participate in combat and the integral supporting elements thereof. (JCS Pub 1)

hh. Operational Requirement. See WWMCCS OR.

ii. Project Manager. The Project Manager of the WWMCCS ADP Program is responsible under the Joint Chiefs of Staff for the overall management of the WWMCCS ADP Program.

jj. Service Subordinate Headquarters (SSH). SSH include those headquarters within the Services, other than Service headquarters and the headquarters of the Service component commands.

kk. Single Service Logistic Support Manager (SSLSM). The US Air Force has been designated as the SSLSM for the centrally acquired WWMCCS Standard System equipment.

ll. Single Service Training Manager (SSTM). The US Air Force has been designated the SSTM for the management of common training of personnel for the WWMCCS Standard System.

mm. Software, Application. Computer programs which directly support the operational mission of their respective command and control system. For example, programs which are used to monitor status of resource deployment/employment, evaluate the feasibility of same, and assess the effect on other operational commitments. Also referred to as mission support programs.

nn. Software, System. Computer programs which augment the ADP hardware to provide a systems environment. These programs support the operation of the functional programs. Examples of nonfunctional or system support programs include executive routines, generalized file generation and maintenance programs, generalized retrieval and report generation programs, utility programs, and generalized display programs. Also referred to as system support programs.

oo. Software, Standard. That WWMCCS software, system or application, which has been designated as standard by the Joint Chiefs of Staff. The standard software is normally developed, tested, maintained, documented, and distributed to users by a single command/agency designated by the Joint Chiefs of Staff.

pp. Successor Contracting Officer (SCO). The SCO functions are performed by the US Air Force. The SCO is the single spokesman for the Government on all contractual matters relating to the WWMCCS Standard System contract.

Approved For Release 2002/05/07 : CIA-RDP84-00933R000200030001-8

qq. System Change Proposal (SCP). The SCP is that document or documents which provide the technical details of system changes. The SCP may be a copy or abstract from existing Service/agency documentation and is provided to assist in the evaluation of the impact of proposed system changes on standard system capabilities.

rr. System Development Notification (SDN). The SDN is a notification in letter form of a planned or proposed hardware/software acquisition or change.

ss. Technical Administrative Support. That support provided by special staff functions directly related to command and control of forces. Support provided by quartermaster, transportation, environmental services, etc.

tt. Validating. Validation of WWMCCS improvements/modifications represented by ORs is a determination by competent authority:

(1) That the OR is consistent with an assigned mission and with overall WWMCCS objectives.

(2) That there are potential candidates to satisfy the OR that are economically sound and technically feasible.

(3) That such potential candidates should be included in subsequent conceptual and development efforts to satisfy the OR.

uu. WWMCCS OR. A need established by competent authority justifying the allocation of resources to achieve a capability to satisfy partially or completely a WWMCCS objective.

vv. WWMCCS Standard System. See the definition for "ADP Equipment Categories."

ww. WWMCCS Nonstandard ADP Facilities. See the definition for "ADP Equipment Categories."



## 5. Glossary

AABNCP	Advanced Airborne Command Post
AAC	Alaskan Air Command
AB	airbase
ABN	airborne
ABNCP	Airborne Command Post
ACA	automatic conference arranger
ACF	alternate command facility
ACFK	Alternate Command Facility, Kunia, Hawaii
ADA	airborne data automation
ADC	Aerospace Defense Command
ADP	automatic data processing
ADPE	automatic data processing equipment
ADPS	Automatic Data Processing System
ADPSWG	Automatic Data Processing Standardization Working Group
ADR	automatic data relay
ADWS	automatic digital weather switch
AESU	aerospace environmental support unit
AEW&C	airborne early warning and control
AFDAA	Air Force Data Automation Agency
AFDSC	Air Force Data Services Center
AFDSDC	Air Force Data Systems Design Center
AFEOC	Air Force Emergency Operations Center
AFGWC	Air Force Global Weather Central
AFLANT	US Air Force, Atlantic
AFOC	Air Force Operations Center
AFREDCOM	Air Force Readiness Command
AFSATCOM	Air Force Satellite Communications System
AFSCF	Air Force Satellite Control Facility
AFSS	Air Force Security Service
A/G	air/ground
AJCC	Alternate Joint Communications Center
AJCC (N)	Navy Element at the AJCC
ALCOM	Alaskan Command
ALMCC	Alaskan Military Command Center
ALS	Advanced Logistics Systems
AMPS	Automatic Message Processing System
ANMCC	Alternate National Military Command Center
ANMCCSD	Alternate National Military Command Center Support Directorate
AOC	Army Operations Center
ARADCOM	Army Air Defense Command
ARCCNET	Army Command and Control Network
ARLANT	US Army Forces, Atlantic
ARPA	Advanced Research Projects Agency
ASC	Automated Service Centers
ASD(T)	Assistant Secretary of Defense (Telecommunications) (Now D,TACCS)
ASIC	All-Source Information Center
ASPG	Automatic Data Processing Standards Policy Group
ASW	antisubmarine warfare
ATEC	automatic technical control
ATH	above the horizon
AUTODIN	Automatic Digital Network
AUTOSEVOCOM	Automatic Secure Voice Communications
AUTOVON	Automatic Voice Network
AWACS	Airborne Warning and Control System
AWN	Automated Weather Network

BMDC	Ballistic Missile Defense Center
BMEWS	Ballistic Missile Early Warning System
CAMS	Communications Area Master Station
CANUS	Canada/United States
C&C	command and control
CCTV	closed circuit television
CDC	Control Data Corporation
CDNARS	Defense Civil Preparedness Agency National Radio System
CDNATS	Defense Civil Preparedness Agency National Teletype System
CDNAVS	Defense Civil Preparedness Agency National Voice System
C-E	communications-electronics
CMC	Commandant of the Marine Corps
CNO	Chief of Naval Operations
COC	Combat Operations Center
COMSEC	communications security
COMSUBLANT	Commander, Submarine Forces, Atlantic Fleet
COMUSTDC	Commander, US Taiwan Defense Command
CONAD	Continental Air Defense Command
COOP	Continuity of Operations Plan
COPAN	Command Post Alerting Network
COPREC	Command Post Record Capability Network
CP	command post
CRITICOMM	Critical Intelligence Communications
CRT	cathode ray tube
CSAF	Chief of Staff, US Air Force
CSE	communications support element
CSG	CINCPAC Support Group
CVAN	CINCPAC Voice Alert Network
CWP	Consolidated WWMCCS Program
DA	Department of the Army
DAFCCS	Department of the Air Force Command and Control System
DCA	Defense Communications Agency
DCL	direct communications link
DCP	Decision Coordinating Paper
DCPA	Defense Civil Preparedness Agency
DCS	Defense Communications System
DDS	Data Display System
DEFCORD	Defense Coordination Network
DEPTAR/MAIN	Department of the Army, Main Headquarters
DEWS	Distant Early Warning System
DIA	Defense Intelligence Agency
DMA	Defense Mapping Agency
DMS	Data Management System
DNA	Defense Nuclear Agency
DOCC	DCS Operations Control Complex
DPS	Data Processing System
DSA	Defense Supply Agency
DSARC	Defense System Acquisition Review Council
DSCS	Defense Satellite Communications System
DSP	Defense Support Program
DTACCS	Director, Telecommunications and Command and Control Systems
DTS	Diplomatic Telecommunications Service
D&W	detection and warning

EAM	Emergency Action Message
EAS	Extended Addressing Set
ECCCS	European Command and Control Console System
ECP	Engineering Change Proposal
EDPE	electronic data processing equipment
EIS	extended instruction set
ELF	extremely low frequency
EMATS	Emergency Message Automatic Transmission System
EMP	electromagnetic pulse
ENMCC	Expanded NMCC
ENV	environmental
EOC	Emergency Operations Center
ERCS	Emergency Rocket Communications System
ERS	emergency relocation site
ETAC	Environmental Technical Applications Center
EURAOC	European Army Operations Center
EW	electronic warfare
FAA	Federal Aviation Administration
FBM	fleet ballistic missile
FC	force control
FCC	Federal Communications Commission
FCSC	Fleet Command Support Center
FDM	frequency division multiplex
FFN	fleet flash net
FFS	Formatted File System
FICPAC	Fleet Intelligence Center, Pacific
FLT	fleet
FLTSATCOM	Fleet Satellite Communications System
FM	frequency modulation
FNWC	Fleet Numerical Weather Central
FOC	Fleet Operations Center
FOC	full operational capability
FOCCPAC	Fleet Operational Control Center, Pacific
FORSTAT	Force Status and Identity Report
FOSIC	Fleet Ocean Surveillance Information Center
FWC	Fleet Weather Central
FWF	Fleet Weather Facility
FYDP	Five-Year Defense Program
FYMOP	Five-Year Master Objectives Program (NMCS)
G/A	ground to air
GAMO	Joint Interoperability Program for Tactical Command and Control Systems for Ground Amphibious Military Operations
GCOS	General Comprehensive Operating Supervisor
GEP	ground entry points
GNDACF	Ground Alternate Command Facility
GSA	General Services Administration
GSS/L	general staff support/large
GSS/M	general staff support/medium
HARDS	High Altitude Radiation Detection System
HEMP	high altitude electromagnetic pulse
HF	high frequency
HICOM	high command
HIMUX	high frequency multiplexer
HIS	Honeywell Information Systems, Inc.
HQ	headquarters
HQDA	Headquarters, Department of the Army

ICBM	intercontinental ballistic missile
ICP	inventory control point
IDHS	Intelligence Data Handling System
IEMATS	Improved Emergency Message Automated Transmission System
I/O	input/output
IOC	initial operational capability
IPR	in-process review
IRBM	intermediate-range ballistic missile
I&W	indications and warning
JAAD	justification, approval, and acquisition documentation
JACC/CP	Joint Airborne Communications Center/Command Post
JCCE	Joint Coordination Center, Europe
JCSAN	Joint Chiefs of Staff Alerting Network
JLRSS	Joint Long-Range Strategic Study
JOPS	Joint Operation Planning System
JP/CTAN	Joint Pacific Command Control TTY Net/CINCPAC TTY Alert Net
JRC	Joint Reconnaissance Center
JRDOD	Joint Research and Development Objectives Document
JRS	Joint Reporting Structure (JCS Pub 6)
JSOP	Joint Strategic Objectives Plan
JSPS	Joint Strategic Planning System
JTF	joint task force
JTSA	Joint Technical Support Activity
LANTCOM	Atlantic Command
LANTCOMOPSUPFAC	Atlantic Command Operations Support Facility
LCC	launch control center
LES	Lincoln Laboratory Experimental Satellite
LF/VLF	low frequency/very low frequency
LOC	lines of communications
LOMUX	low frequency multiplexing
MAC	Military Airlift Command
MACIMS	Military Airlift Command Integrated Management System
MARCOR	Marine Corps
MCB	Marine Corps Base
MEECN	Minimum Essential Emergency Communications Network
MILCON	Military Construction Program
MILDEP	military department
MILPERS	military personnel
MILSATCOM	military satellite communications
MILSTAMP	Military Standard Transportation and Movement Procedures
MILSTEP	Military Supply and Transportation Evaluation Procedures
MILSTRIP	Military Standard Requisitioning and Issue Procedures
MRBM	medium-range ballistic missile
MSC	Military Sealift Command
MTMC	Military Traffic Management Command
MUMMS	Marine Corps Unified Material Management System
MWDS	Missile Warning Display System
NACP	NORAD/CONAD Airborne Command Post
NAS	naval air station
NAVCOMPARS	Naval Communications Processing and Routing System
NAVCOMSTA	Naval Communications Station
NAVCOSACT	Naval Command Systems Support Activity
NAVEUR	Naval Forces, Europe
NAVSTA	naval station
NAWAS	National Warning System Telephone System
NBC	nuclear, biological, chemical

NCA	National Command Authorities
NCOC	NORAD Combat Operations Center
NCSC	Navy Command Support Center
NEACP	National Emergency Airborne Command Post
NEDN	Navy Environmental Data Network
NFARS	NORAD Forward Automatic Reporting System
NIPS	NMCS Information Processing System
NMCC	National Military Command Center
NMCS	National Military Command System
NMCSSC	National Military Command System Support Center
NMIC	National Military Intelligence Center
NORAD	North American Air Defense Command
NORATS	Navy Operational Radio and Telephone Switchboards
NSA/CSS	National Security Agency/Central Security Service
NSOC	National SIGINT Operations Center
NUDET	nuclear detonation
NWSED	Naval Weather Service Environmental Detachment
NWSF	Naval Weather Service Facility
OJCS	Organization of the Joint Chiefs of Staff
O&M	operation and maintenance
OMB	Office of Management and Budget
OPCON	operational control
OPSEC	operations security
OR	operational requirement
OS	operating system
OSIS	Ocean Surveillance Information System
OTH (F) (B)	over-the-horizon (forward scatter) (back scatter)
PACCS	Postattack Command and Control System
PAS	Primary Alert System
PBD	Program Budget Decision
PCAM	punched card accounting machine
PDS	Processing Display System
PE	program element
PM	Program Memorandum
PMD	Program Management Directive
POM	Program Objective Memorandum
PPB	planning, programming, and budgeting
PPBS	Planning, Programming, and Budgeting System
PPGM	Planning and Programming Guidance Memorandum
PWIN	Prototype WWMCCS Intercomputer Network
RCC	Region Control Centers
R&D	research and development
RDT&E	research, development, test, and evaluation
RISOP	Red Integrated Strategic Offensive Plan
ROC	required operational capability
SACCS	SAC Automated Command Control System
SAF	Strategic Army Force
SAGE/BUIC	semiautomatic ground environment/backup interceptor control
SAILS	Standard Army Intermediate Level Supply System
SAS	special ammunition storage
SATCOM	satellite communications
SATIN	SAC Automated Total Information Network
SCO	Successor Contracting Officer
SCP	System Change Proposal
SDM	secure digital modem
SDN	system development notification
SECORDS	secure cord boards
SEVOCOM	secure voice communications
SFG	special forces group

SHF	superhigh frequency
SHOC	SHAPE Operations Center
SIGINT	signals intelligence
SIOP	Single Integrated Operational Plan
SIP	System Improvements Plan
SLBM D&W	sea-launched ballistic missile detection and warning
SLFCS	Survivable LF Communications System
SPADATS	Space Detection and Tracking System
SPASUR	space surveillance
SPT	support
SSB	single sideband
SSBN	fleet ballistic missile submarine
SSH	Service subordinate headquarters
SSLSM	Single Service Logistic Support Manager
SSTM	Single Service Training Manager
SURVSATCOM	survivable satellite communications
SWO	staff weather officer
TAC	Tactical Air Command
TACAMO	take charge and move out (aircraft)
TA/CE	technical analysis/cost estimate
TACSATCOM	tactical satellite communications
TACS/TADS	Joint Tactical Air Control Systems/Tactical Air Defense Systems Interface Program
TDP	Technical Development Plan
TOA	transportation operating agencies (MAC, MSC, MTMC)
TTY	teletypewriter
USADC	US Antilles Defense Command
USAFORSCOM	US Army Forces Command
USAFSC	US Air Force System Command
USAFSO	US Air Force, Southern Command
USARAL	US Army, Alaska
USAREUR	US Army, Europe
USARJ	US Army, Japan
USARRED	US Army Forces, Readiness Command
USARSO	US Army, Southern Command
USEUCOM	US European Command
USFORAZ	US Forces, Azores
USFJ	US Forces, Japan
USFK	US Forces, Korea
USIB	US Intelligence Board
USIDF	US Iceland Defense Force
USMACTHAI	US Military Assistance Command, Thailand
USNAVSO	US Naval Forces, Southern Command
USREDCOM	US Readiness Command
USSOUTHCOM	US Southern Command
USTDC	US Taiwan Defense Command
VASS	Visual Analysis Support Subsystem
WCSG	WWMCCS Council Support Group
WEACEN	Weather Central
WEAWG	Weather Wing
WESTHEM	Western Hemisphere
WHCA	White House Communications Agency
WSSIB	WWMCCS Standard System Information Base
WHSR	White House Situation Room
WSU	Weather Support Units
WWABNCPS	Worldwide Airborne Command Post System
WWDMS	Worldwide Data Management System