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December 2, 1971
NUMBER 5100.30

SecDef

Department of Defense Directive

SUBJECT World-Wide Military Command and Control System (WWMCCS)

Reference: (a) DoD Directive S-5100.30, "Concept of Operations of the World-Wide Military Command and Control System", October 16, 1962 (hereby cancelled)

I. PURPOSE

The purpose of this directive is to define the functional, organizational, and operational relationships between all elements of the Worldwide Military Command and Control System (WWMCCS) and to provide policy guidance and establish responsibilities for the management, development, acquisition and operation of the WWMCCS.

II. APPLICABILITY AND SCOPE

This directive applies to the Military Departments, Joint Chiefs of Staff, Office of the Secretary of Defense, Unified and Specified Commands, and Department of Defense Agencies (hereinafter referred to as DoD Components) involved in the development, acquisition and operation and support of the WWMCCS.

III. DEFINITIONS

A. National Command Authorities (NCA). The NCA consists only of the President and the Secretary of Defense or their duly deputized alternates or successors. The chain of command runs from the President to the Secretary of Defense and through the Joint Chiefs of Staff to the

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commanders of Unified and Specified Commands. The channel of communication for execution of the Single Integrated Operational Plan (SIOP) and other time-sensitive operations shall be from the NCA through the Chairman of the Joint Chiefs of Staff, representing the Joint Chiefs of Staff, to the executing commanders.¹

- B. Command and Control. For purposes of this directive, command and control is the exercise of authority and direction by duly designated authorities. These functions are performed through an arrangement of personnel, equipment, communications, facilities, and procedures, which are employed in planning, directing, coordinating, and controlling operational activities of US Military Forces.
- C. Worldwide Military Command and Control System (WWMCCS). The WWMCCS is the world-wide 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.
- D. National Military Command System (NMCS). The NMCS is the priority component of the WWMCCS designed to support the National Command Authorities in the exercise of their responsibilities. It also supports the Joint Chiefs of Staff in the exercise of their responsibilities.

IV. GENERAL CONCEPTS

- A. The WWMCCS serves two functions, listed below in their order of priority and emphasis:
 - 1. Support of the NCA is the primary mission. 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 Unified and Specified Commands. The NMCS must

¹The expression, "Chairman of the Joint Chiefs of Staff", as used in this directive includes the officer appointed to this position and the officer serving in this position in the appointee's absence.

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.

2. Support of the command and control systems of the Unified and Specified Commands and the WWMCCS related management/information systems of other DoD Components is the second mission. This function will be supported by the WWMCCS subordinate to and on the basis of non-interference with the primary mission.

B. Guidelines for Design and Operation of the WWMCCS.

1. Both the communication of warning and intelligence from all sources and the communication of decisions and commands to the Military Forces require that the NMCS be the most responsive, reliable, and survivable system that can be provided with the resources available. This requires that the command and control systems of all other DoD Components be configured and operated for effective support of the NMCS as well as their specific missions. Interfaces must be compatible, communication links must provide direct connection or real time relay wherever necessary, computerized data formats must be common and all details of system configuration and operation must be as efficient as possible in terms of both effectiveness and in utilization of resources.
2. The WWMCCS will be exercised frequently under the most realistic conditions possible in order to insure readiness and to identify deficiencies. Exercises will be used to evaluate the effectiveness of standard operating procedures, changes to these procedures, the effectiveness of installed and deployed command and control equipment, equipment changes, and to assist in validating the need for and characteristics of hardware and software proposed to correct identified deficiencies.
3. These guidelines apply to all DoD Components and to the utilization of all other Department of Defense resources in support of the WWMCCS and its prime mission.
4. The effective operation of the WWMCCS rests upon the understanding of its concepts and objectives and its innovative support by those charged with its design and operation. Every effort must be made to assure this understanding and encourage this support.

V. COMPOSITION OF THE WWMCCS

A. National Military Command System (NMCS).

1. Since survival of the command and control capability of NMCS is fundamental to continuity of operations, a composite command structure with survivable communications is required. This includes the National Military Command Center (NMCC), the Alternate National Military Command Center (ANMCC), the National Emergency Airborne Command Post (NEACP), and such other command centers as may be designated by the Secretary of Defense. These centers must be linked by reliable communications, supported by warning and intelligence systems, and continuously manned and ready for use. Special capabilities must be provided for communication with strategic offensive and defensive forces and for other forces which may be required for quick reaction in crises. In this case, the communications will be designated and operated to assure minimum elapsed time for the transmission of orders to the operating units of these forces. The NMCS also includes communications connecting its facilities with primary and alternate command facilities of the:
 - a. Headquarters of the Unified and Specified Commands.
 - b. Service headquarters of the Military Departments.
 - c. Other designated DoD Components which provide support through the WWMCCS.
2. Support of the NMCS will be the priority function of all primary and alternate command facilities.

B. Command and Control Systems of the Unified and Specified Commands.

1. The command and control systems of the Unified and Specified Commands provide the means through which Unified/Specified Commanders receive information and exercise operational command of assigned forces.
2. The command and control system of a unified command includes the command and control systems of subordinate

unified commands and joint task forces when such organizations are established and assigned. Further, the Unified/Specified Commander must provide guidance to his Component Commands to assure interoperability of the command-wide command, control, and intelligence support systems necessary to his operational functions.

- C. WWMCCS-Related Management/Information Systems of the Headquarters of the Military Departments. This consists of the facilities, equipment, communications, procedures, and personnel which provide the means through which the headquarters of the Military Departments carry out their assigned functions in support of the WWMCCS.
- D. Command and Control Systems of the Headquarters of the Service Component Commands. These systems provide the means through which the commanders send and receive information and exercise command over their forces.
- E. Command and Control Support Systems of Department of Defense Agencies. These systems provide the means through which the Directors accomplish the missions of their Agencies in support of the command and control function.
- F. Command and Control Systems described in paragraphs B, C, D, and E will be configured and operated generally to meet the requirements of the commands being served. However, the priority requirement will be as defined in subparagraph IV. A. 1. All communications facilities of these commands will be designed not only to interface with main NMCS communications, but for information to flow through and to and from points within each command as may be appropriate.
- G. Non-Department of Defense Systems.
 - 1. Effective coordination and liaison must be established and maintained with those activities of the U. S. Government outside the Department of Defense which have functions associated with the NMCS, e. g. , White House Situation Room, State Department Operations Center, Central Intelligence Agency Indications Office, U. S. Intelligence Board National Indications Center, U. N. Military Mission, Office of Emergency Preparedness National Warning Center, the U. S. Coast Guard Operations Center, the FAA Executive Communications Control Center, and such other agencies, activities, or centers as may be designated.

2. **Appropriate military information will be provided to these associated systems through the NMCS, utilizing timely, secure, and reliable communications systems. Conversely, political, intelligence, diplomatic, and economic information input to the NMCS will be provided by these same systems. The WWMCCS may also be required to interface with such multi-national elements as NATO. In addition, the NMCS should provide communications and space to support representatives of the White House and other Government activities who may use the NMCS in a politico-military situation concerning strategic direction of U.S. Military Forces. The Joint Chiefs of Staff will provide for lateral coordination with U.S. Government activities external to the Department of Defense to insure necessary interchange of data to and from the NMCS.**

VI. RESPONSIBILITIES

- A. **Subject to the authority and direction of the President and the Secretary of Defense, the Joint Chiefs of Staff have the responsibility:**
 1. **To prepare strategic plans and provide for the strategic direction of the armed forces, including the direction of operations conducted by Commanders of Unified and Specified Commands and the discharge of any other function of command for such commands directed by the Secretary of Defense.**
 2. **To serve as advisers and as military staff in the chain of operational command with respect to Unified and Specified Commands, to provide a channel of communications from the President and Secretary of Defense to Unified and Specified Commands, and to coordinate all communications in matters of joint interest addressed to the Commanders of the Unified or Specified Commands by other authority.**
 3. **To advise on the effectiveness of the WWMCCS.**
- B. **Under the direction of the Secretary of Defense, the Chairman of the Joint Chiefs of Staff will:**
 1. **Operate, for the Secretary of Defense, the NMCS to meet the needs of the NCA. He will establish**

operational policies and procedures for all components of the NMCS and assure their implementation.

- 2. Define the scope and components of the NMCS.**
 - 3. Develop and validate requirements for the NMCS, make recommendations on the design, development, and procurement of systems and prepare, with appropriate DoD Component assistance, appropriate planning, programming, and budgeting documents for the NMCS.**
 - 4. Maintain cognizance of all WWMCCS programs and capabilities. Validate WWMCCS requirements of the Unified/Specified Commanders. Develop an overall WWMCCS Objectives Plan.**
 - 5. Make recommendations to the Secretary of Defense to insure responsiveness, functional interoperability, and standardization of the WWMCCS. Make recommendations for changes to the WWMCCS that will increase the effectiveness of the NMCS.**
 - 6. Implement decisions of the Secretary of Defense concerning requisite capabilities of the NMCS pertaining to subparagraph V. F.**
- C. The Assistant to the Secretary of Defense (Telecommunications) will have primary staff responsibility in the Office of the Secretary of Defense for the WWMCCS, NMCS, and WWMCCS-related systems. This responsibility includes review and advice to the Secretary of Defense on all matters, except those assigned in paragraphs VI. D. and VI. E., below, relating to the design, development, procurement, and performance of equipment, systems, and technical procedures involved in the WWMCCS, including recommendations made by or through the Chairman, Joint Chiefs of Staff.**
- D. The Assistant Secretary of Defense (Intelligence) will have primary staff responsibility in the Office of the Secretary of Defense for intelligence collection and reporting systems.**

This responsibility includes review and advice to the Secretary of Defense on all matters involving warning and intelligence relating to the design, development, procurement (other than ADP procurement), and performance of equipment, systems and technical procedures involved in the WWMCCS, including recommendations made by or through the Chairman, Joint Chiefs of Staff.

E. The Assistant Secretary of Defense (Comptroller) will maintain central focal point cognizance of ADP procurement, reporting, and reutilization.

F. Non-NMCS elements of the WWMCCS will continue to be administered by their responsible DoD Components.

VII. WORLD-WIDE MILITARY COMMAND AND CONTROL SYSTEM (WWMCCS) COUNCIL

There is hereby established a WWMCCS Council, which will be chaired by the Deputy Secretary of Defense and will have as additional members the Chairman of the Joint Chiefs of Staff, the Assistant Secretary of Defense (Intelligence), and the Assistant to the Secretary of Defense (Telecommunications). The Council will provide policy guidance for the development and operation of the WWMCCS and evaluate its overall performance. In particular, it will review and evaluate for the Secretary of Defense the exercises specified under IV. B. It will also review and make recommendations to the Secretary of Defense on the planning, programming, and budgeting of the WWMCCS.

VIII. CANCELLATION

Reference (a) is hereby superseded and cancelled.

IX. EFFECTIVE DATE AND IMPLEMENTATION

This Directive is effective upon publication. In the event of conflict between this Directive and previous directives and

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instructions, the provisions of this Directive will govern. All DoD Components will review their existing directives, instructions, and regulations for conformance with this Directive; advise the Secretary of Defense and the Chairman of the Joint Chiefs of Staff of the results of this review within 30 days and implement any necessary changes within 90 days of publication of this Directive.



Deputy Secretary of Defense

DEPARTMENT OF DEFENSE DIRECTIVES SYSTEM TRANSMITTAL

NUMBER	DATE	DISTRIBUTION
5100.30 - Ch 1	May 16, 1974	5100 series

ATTACHMENTS - None

INSTRUCTIONS FOR RECIPIENTS

The following pen change to DoD Directive 5100.30, "World-Wide Military Command and Control System (WWMCCS)," dated December 2, 1971, has been authorized:

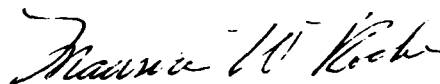
PEN CHANGE

Page 7 - Section VI C. Delete: "Assistant Secretary of Defense (Telecommunications)"

Insert: "Director, Telecommunications and Command and Control Systems (DTACCS)"

EFFECTIVE DATE

This change is effective immediately.



MAURICE W. ROCHE, Director
Correspondence and Directives
OASD(Comptroller)

WHEN PRESCRIBED ACTION HAS BEEN TAKEN, THIS TRANSMITTAL SHOULD BE FILED WITH THE BASIC DOCUMENT

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DEPARTMENT OF DEFENSE

DIRECTIVES SYSTEM TRANSMITTAL

NUMBER	DATE	DISTRIBUTION
74-19	December 10, 1974	S-5100.30

ATTACHMENTS

None ✓

INSTRUCTIONS FOR RECIPIENTS

NOTICE OF DECLASSIFICATION AND REDESIGNATION

Cancelled DoD Directive S-5100.30, "Concept of Operations of the World-Wide Military Command and Control System (U)," dated October 16, 1962, is hereby declassified and downgraded from SECRET to UNCLASSIFIED, effective October 1, 1974.

All recipients retaining copies of this cancelled document should delete the classification "SECRET" from the top and bottom of each page, and change the number of the document from "S-5100.30" to "5100.30".

This Transmittal may be used as the authority for downgrading and declassifying this Directive.

Maurice W. Roche
MAURICE W. ROCHE, Director
Correspondence and Directives
OASD(Comptroller)

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