



## DEPARTMENT OF THE NAVY

NAVAL SEA SYSTEMS COMMAND  
WASHINGTON, DC 20362-5101

IN REPLY REFER TO

NAVSEAINST 2450.1  
OPR 06K2  
9 Dec 91

### NAVSEA INSTRUCTION 2450.1

From: Commander, Naval Sea Systems Command

Subj: FREQUENCY ALLOCATIONS AND FREQUENCY ASSIGNMENTS

Ref: (a) OPNAVINST 2400.20E  
(b) NTP 6(C)  
(c) OMB Circular No. A-11, "Preparation and Submission of Budget Estimates"  
(d) DoD FAR Supplement 1988 Articles 235.071, "Contract Clauses" and 252.235-7004, "Frequency Authorization"

Encl: (1) Procedures for Obtaining Frequency Allocations Within the DON  
(2) Procedures for Obtaining Frequency Assignments Within the DON

1. Purpose. To reissue Command policy, procedures, and responsibilities for the implementation of reference (a) concerning use of the radio frequency (RF) electromagnetic spectrum within NAVSEA.

#### 2. Background

a. The Joint Frequency Panel of the Military Communications-Electronics Board is responsible to the Joint Chiefs of Staff for the joint radio frequency allocation planning in the communications-electronics field within the Department of Defense. It is the responsibility of each military department to secure joint approval of the frequency allocation aspects of Communications-Electronics (C-E) equipment/systems prior to initiating any development or procurement.

b. Within the Navy, in accordance with reference (a), the responsibility for the allocation, assignment, and management of all radio frequencies employed by the Department of the Navy rests with the Chief of Naval Operations. Included in this responsibility is the review of the electromagnetic characteristics of all equipments developed or procured for use by the Department of the Navy, to ensure electromagnetic compatibility (EMC) with existing and future systems.

c. Also, in accordance with reference (a), the Director, Electromagnetic Spectrum Management (OP-940T), has the responsibility to secure frequency allocations for all C-E systems developed and/or procured by the Department of the Navy and to authorize frequency assignments to Department of the Navy offices and commands.

3. Scope. This instruction applies to all NAVSEA commands and activities involved in the research and development or operation of C-E equipment/ systems, including radars, electro-optic systems, weapon systems or any other electromagnetic system. It describes mandatory actions that are prerequisite to the obligation or expenditure of any funds for C-E equipment/systems or the operation of the equipment/systems.

#### 4. Definitions

a. Communications-Electronics (C-E). The specialized field concerned with the use of electronic devices and systems for the acquisition or acceptance, processing, storage, display, analysis, protection, disposition, and transfer of information. In this instruction, C-E systems include communications, radar, navigation, and all other systems which use the electromagnetic spectrum.

b. Electro-optics. Those systems and devices which employ a useful combination of optics and electronics for which the carrier wavelength is within the spectral range of 0.1-100 micrometers (3000 GHz-3000 THz).

#### c. Frequency Allocation.

(1) A frequency band established by national or international rules and regulations for specific categories of radio services, such as radiolocation, radionavigation, mobile or fixed communications, space telemetry, etc.

(2) As used in this instruction, the acknowledgement by Chief of Naval Operations (CNO) that development and/or procurement of C-E equipment can be supported for operation on a specific frequency or band of frequencies within the radio frequency spectrum.

d. Frequency Assignment. The discrete frequency or frequencies on which a C-E equipment or system is authorized to operate within its allocated frequency band at the location(s) designated and within the constraints of the authorizing assignments.

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e. Radio Frequency (RF) Electromagnetic Spectrum. A general term applied to any use of electromagnetic frequencies less than 3000 GHz.

## 5. Policy

a. Funds shall not be obligated for the development or procurement of C-E equipment/systems until a frequency allocation for that particular stage of the material development cycle has been approved by the Chief of Naval Operations (CNO).

b. C-E transmitting equipment/systems shall not be activated for any purpose without both a frequency allocation and a frequency assignment.

c. Applications for frequency allocations shall be initiated by developing commands or procurement activities as early as RF bands of operation are identified.

d. Frequency assignment requests shall be initiated by system developers or testers as soon as a frequency allocation is obtained and test sites are chosen. Frequency assignments for operational and training use shall be requested by field personnel as soon as mission or exercise planning has provided locations and other pertinent data. Requests should be made at least 90 days before the frequency will be used in the United States and Possessions (US&P) and at least 120 days before the frequency will be used outside the US&P.

## 6. Procedures

a. Frequency Allocations. Reference (a) details exactly what a frequency allocation is and why it is a mandatory requirement for all systems that utilize the RF spectrum. Exemptions are also detailed in reference (a). Allocation applications are required for all C-E systems except for electro-optics, fuzes, some low power equipment, and some nontactical/intrabase, radios. Detailed procedures for submission of frequency allocation applications are summarized in enclosure (1) of this document and detailed in Annex C of reference (b).

b. Frequency Assignments. Reference (a) also details the purpose and content of frequency assignments. Detailed procedures for submission of requests for a frequency assignment, after a frequency allocation has been received, are summarized in enclosure (2) and detailed in Annex D of reference (b).

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7. Responsibilities

a. Deputy Commanders, Acquisition Project Managers, assigned shore activities, and detachments are responsible for:

(1) The preparation and update of an Application for Equipment Frequency Allocation (DD form 1494) in accordance with references (a) and (b) for all applicable C-E equipment, systems, subsystems, and devices, with the exception of fuzes. The application shall be coordinated with the NAVSEA EM Office (SEA 06K22), and submitted to the Chief of Naval Operations (OP-940T) via SEA 06K2.

(2) The inclusion of a requirement for frequency allocation data, when appropriate, prior to the initiation of task assignments or procurements.

(3) The inclusion of a statement in each Procurement Request for experimental research, development, procurement or production of C-E equipment that a radio frequency allocation either has been secured or is not required.

(4) The implementation of the frequency assignment procedures and requirements in references (a) and (b) and enclosure (2).

b. The NAVSEA EM Office is responsible for the following:

(1) The provision of guidance and assistance as required on matters related to radio frequency allocation and assignment.

(2) The review of all applications for frequency allocations and assignments prior to submission to the Chief of Naval Operations.

(3) Serving as the point of contact within the Command with the Chief of Naval Operations for all matters concerning radio frequency allocation and assignment.

(4) The maintenance of records of applications for frequency allocation and assignment submitted by the Command and the ensuing action by the Chief of Naval Operations.

c. The Deputy Commander, Contracts Directorate (SEA 02) shall perform the following:

(1) Upon receipt of a Procurement Request, include in each Request for Authority to Negotiate requiring Secretarial approval of the associated Determination and Findings, a

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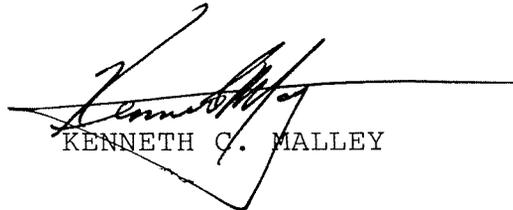
statement that frequency allocation approval by CNO (OP-940T) for the equipment concerned has been secured or is not required. The requirement for this statement is made mandatory by Navy Procurement Directives (NPD) 3-306.52(b)(9)c.

(2) Ensure that certification of radio frequency availability is obtained from the National Telecommunications and Information Administration (NTIA) as required by reference (c). This certification is included in the CNO approval.

(3) Ensure that contract clauses are inserted as required by reference (d).

8. Action. Addressees shall initiate such action as necessary to implement this instruction on those programs within the scope of paragraph 4 above.

9. Forms. DD Form 1494, Application for Equipment Frequency Allocation, Navy Stock Number 0102-LF-009-4400, is available from Cog. "I" for shore activity use and may be requisitioned in accordance with NAVSUP Publications 2002 and 437. NAVSEA Washington personnel may obtain DD Form 1494 from the Self-service Storeroom (Forms), 1W33, National Center #2.



KENNETH C. MALLEY

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PROCEDURES FOR OBTAINING FREQUENCY ALLOCATIONS  
WITHIN THE DEPARTMENT OF THE NAVY

1. An Application for Equipment Frequency Allocation (DD Form 1494, SN 0102-LF-001-4941) will be prepared and submitted to CNO (OP-940T) via the NAVSEA EM Office at the stage indicated, when:

a. Sufficient information becomes available on the intended use and spectral requirements of a proposed C-E equipment or system to warrant consideration of a frequency allocation, or when frequency authority or guidance is required before proceeding further (Stage One);

b. A C-E equipment is being planned for experimental research or development (Stage Two).

c. Equipment development progresses to an advanced or engineering development stage from the experimental or research stage (Stage Three).

d. Procurement of operational equipment or system is required (Stage Four).

e. Procurement of a commercial C-E equipment or system for military use is being planned.

f. A change in any of the stated conditions of electromagnetic operating parameters of an equipment for which a frequency allocation was previously approved, or is pending, with regard to equipment characteristics, nomenclature, location or operational environment, or intended use or purpose. A letter may be used to modify a previously approved allocation.

2. Instructions for completing the application are on the reverse sides of DD Form 1494, and in reference (b). Data submitted should be as complete as possible. For commercial off-the-shelf procurements, include the manufacturer's specifications.

3. A determination of the compatibility of the proposed system in its intended electromagnetic environment shall be conducted by the developing agency and a copy of the findings shall accompany each allocation submission.

4. If a deviation from an electromagnetic compatibility (EMC) standard parameter is proposed, a request for waiver with justification (economic, technical, schedule) shall be included. When a departure from the National or International Tables of Frequency Allocation is proposed, additional justification supporting the proposed frequency band shall be included. The technical justification must show that the proposed out-of-band system will not degrade the EMC of the current environment.

Enclosure (1)

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5. When equipment is proposed for use outside of the United States or its possessions, the developing agency shall take action in accordance with OPNAVINST 5510.48J to obtain approval for release of frequency allocation data necessary to coordinate the use of the equipment within the territory of the host nations. A statement of releasability of equipment data should be made on the DD Form 1494, identifying which items are releasable to which countries.

6. Assistance in preparing and submitting applications for frequency allocation (DD Form 1494) may be obtained from the NAVSEA EM Office. Direct liaison is encouraged with CNO (OP-940T) or the Naval Electromagnetic Spectrum Center, which assists CNO in the allocation process, to select appropriate frequency bands or to discuss system development of a highly sensitive or unusual nature.

Enclosure (1)

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PROCEDURES FOR OBTAINING FREQUENCY ASSIGNMENT WITHIN  
THE DEPARTMENT OF THE NAVY

1. Policy

a. Frequency assignment is the process of authorizing a system or equipment to operate on a discrete frequency(ies) and within a specified set of constraints such as power, emission bandwidth, location of antennas, and operating time of day. Authority for the use of radio frequencies by Navy and Marine Corps activities within the United States and Possessions (US&P) is obtained from the Administrator, National Telecommunications and Information Administration (NTIA). (USGP is defined as the 50 States and the District of Columbia, the Commonwealth of Puerto Rico, and the following territories and possessions: Navassa Island, Culebra, Mona, Vieques, Quita Sueno Bank, Roncador Bank, Serrana Bank, Serranilla Bank, Virgin Islands, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Island, Kingman Reef, Midway, Mariana Islands, Pamyra Island, American Samoa, and Wake Island).

b. The Chief of Naval Operations (CNO) establishes overall policy for spectrum management within the Department of the Navy. Authority for the use of radio frequencies by Navy and Marine Corps activities within the area of responsibility of a Unified or Specified Commander is obtained from the Joint Chiefs of Staff through the United States Military Communications Electronics Board (USMCEB). Within the Department of the Navy, the Naval Electromagnetic Spectrum Center (NAVEMSCEN) authorizes frequency assignment applications ensuring conformance, compliance, and compatibility with departmental, national and international rules, regulations and procedures.

2. Procedures. Requests for authorization to operate any device are submitted as follows:

a. Requests by NAVSEA activities for frequency use within the contiguous United States (USA) shall be submitted to the NAVEMSCEN via the appropriate Naval Area Frequency Coordinator (NAFC) (listed below) and additionally, in the case of naval tenant activities, via the base or installation commanders concerned.

b. NAVSEA requests for frequencies to be used within the area of responsibility of a unified or specified commander shall be submitted via the chain of command to the unified or specified commander. The commander submits requests to the Joint Frequency Panel (JFP) of the U.S. Military Communications Electronics Board (USMCEB) for all USGP requirements under the assignment authority of the JFP.

Enclosure (2)

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c. All requests for frequencies to meet routine, foreseeable requirements should be submitted in the prescribed Standard Frequency Action Format (SFAF) as outlined in reference (b). Submissions should be made at least 90 days before commencement of the requirement when the frequency will be used within the US&P, and at least 120 days when the frequency will be used outside the US&P.

d. Requests for renewal of temporary assignments should be treated the same as a new assignment and submitted in the SFAF at least 90 days before expiration of the temporary assignment.

e. Administrative changes may be submitted via the chain of command at any time.

Enclosure (2)

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## DoN FREQUENCY COORDINATORS FOR US

<u>STATE</u>	<u>NAVY</u>	<u>STATE</u>	<u>NAVY</u>
Alabama	1	Nevada	2,4
Alaska	2	New Hampshire	1
Arizona	2,4	New Jersey	1
Arkansas	1	New Mexico	2,4
California	2,5	New York	1
Colorado	2,4	North Carolina	1
Connecticut	1	North Dakota	2
Delaware	1	Ohio	1
Florida	1,4	Oklahoma	1
Georgia	1	Oregon	2
Hawaii	3	Pennsylvania	1
Idaho	2	Rhode Island	1
Illinois	1	South Carolina	1
Indiana	1	South Dakota	2
Iowa	1	Tennessee	1
Kansas	1	Texas	1
Kentucky	1	Utah	2,4
Louisiana	1	Vermont	1
Maine	1	Virginia	1
Maryland	1	Washington	2
Massachusetts	1	West Virginia	1
Michigan	1	Wisconsin	1
Minnesota	1	Wyoming	2
Mississippi	1		
Missouri	1		
Montana	2		
Nebraska	2		

## Notes:

1. Joint Frequency Management and Spectrum Engineering Office Atlantic (JFMOLANT), Naval Base Norfolk, Building N26, Norfolk, VA 23511. (Note 6)
2. Navy Frequency Coordinator Western United States (NFCWUS), Point Mugu, CA 93042. (Note 6)
3. Naval Communications Area Master Station, Eastern Pacific (NAVCAMS EASTPAC), Honolulu, Wahiawa, HI 96786.
4. In some areas, the Navy coordinator must also coordinate frequency assignments with other government and/or DoD frequency coordinators such as FAA, and DoD AFC White Sands Missile Range (WSMR).

Enclosure (2)

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5. NAVCOMSTA's San Diego and Stockton coordinate fleet ship-shore-ship, fleet air-ground, and fleet broadcast frequency assignments for NAVCAMS EASTPAC.

6. JFMO LANT and NFCWUS utilize local USN area frequency coordinators in support of frequency assignment coordination in certain areas.

Enclosure (2)