STATES OF DATE

DEPARTMENT OF THE NAVY

OFFICE OF THE SECRETARY 1000 NAVY PENTAGON WASHINGTON DC 20350-1000

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SECNAV INSTRUCTION 2400.2

From: Secretary of the Navy

Subj: ELECTROMAGNETIC ENVIRONMENT POLICY AND MANAGEMENT

Ref:

- (a) DoD Instruction 4650.01 of 17 Jul 2007
- (b) DoD Directive 3222.3 of 8 Sep 2004
- (c) Joint Publication 1-02, Department of Defense Dictionary of Military and Associated Terms, 8 Nov 2010
- (d) 47 U.S.C.
- (e) OMB Circular A-11, Part 2
- (f) U.S. Department of Commerce, National Telecommunications Information Administration (NTIA), Manual of Regulations and Procedures for Federal Radio Frequency Management
- (g) SECNAVINST 5000.2D
- (h) SECNAVINST 5430.7Q
- (i) CJCSI 3170.01G
- (j) SECNAVINST 2400.1
- 1. <u>Purpose</u>. To establish policy and assign responsibilities related to electromagnetic environment (EME) and electromagnetic environmental effects (E3), and implements, within the Department of the Navy (DON), applicable provisions of references (a) through (j).
- 2. Scope and Applicability. This instruction applies to the Office of the Secretary of the Navy, the Chief of Naval Operations (CNO), the Commandant of the Marine Corps (CMC), and all Navy and Marine Corps commands, units, installations, organizations and activities.

3. Background

a. The EME is composed of all electromagnetic energy from known and unknown sources that require coordinated management activities across all functional areas within the DON. This includes manmade emissions from communications equipment and systems, commercial systems, electrical power lines and

generators, as well as natural emissions from lightning, the sun, cosmic radiation, and other sources. The complex and dynamic EME significantly affects Navy and Marine Corps capabilities and impacts operations, training and safety. The EME is a diverse and multifaceted environment that requires coordinated management actions by many functional areas within the DON. E3, the impact of the EME on the operational capability of military forces, equipment, systems, and platforms, can degrade the performance of systems and place personnel, equipment, ordnance, and fuels at risk. Therefore, due to the detrimental effects E3 can have on naval capabilities it is critical that the DON manages and mitigate undesirable E3.

- b. This instruction establishes DON policy and assigns responsibilities for ensuring reliable, safe, and mission capable operations of all systems, equipment, and subsystems within their intended operational EME. These systems include communications-electronics (C-E) systems and apply to all platforms, systems, subsystems, facilities, weapons, electric or electronic equipment, networks, sensors, fuels, and ordnance developed, procured, acquired, operated, and maintained by the DON including commercial items (CI) and non-developmental items (NDI). References within this instruction specify mandatory actions that are prerequisite to obligating or expending funds for C-E equipment, systems and subsystems.
- 4. $\underline{\text{Definitions}}$. Terms used in this instruction are defined in references (a), (b) and (c).
- 5. <u>Policy</u>. DON EME policy and management shall be guided by the following principles:
- a. DON E3 policy and management functions shall be in consonance with applicable international, national, Federal, Department of Defense (DoD), joint and DON policy.

b. The DON shall:

- (1) Strive to identify, understand, and address E3 in order to accomplish its warfighting missions;
- (2) Strive to mitigate E3 that negatively impacts DON capabilities;

- (3) Promote investment in E3 associated technologies;
- (4) Leverage best practices of Federal, public and private E3 sectors;
- (5) Strive to achieve electromagnetic compatibility for all electronic and electrical systems, subsystems, and equipment developed, acquired, and operated by the Navy and the Marine Corps, including CI and NDI;
- (6) Apply sound engineering, acquisition, and administrative practices throughout the Department to ensure effective and prudent management of the EME;
- (7) Strive to attain built-in EME and E3 design compatibility vice after-the-fact remedial measures; and
 - (8) Strive to minimize its impact on the EME.

6. Responsibilities

- a. The CNO and the CMC, as the primary E3 advocates for Service operational issues, shall:
- (1) Ensure all applicable functional areas of their respective services consider and address E3 related requirements and actions;
- (2) Plan, program and budget resources in support of their respective E3 service requirements;
- (3) Ensure management of the EME, to include E3, is addressed in Joint Capabilities Integration and Development System (JCIDS) requirements and documents;
- (4) Develop respective service training, doctrines, procedures, tactics, techniques, and methods to manage and mitigate E3 per paragraph 5 of this instruction and other applicable guidance and instructions.
- (5) Provide subject matter experts (SMEs) to support the DON CIO in DoD, Federal, national, international and commercial forums addressing EME matters.

- b. The Assistant Secretary of the Navy (Research, Development and Acquisition), as the E3 advocate for research, development and acquisition (RD&A), and the service acquisition executive shall ensure E3 is considered and addressed in all phases of RD&A to include testing and evaluation to mitigate negative impacts to DON capabilities.
- c. The Assistant Secretary of the Navy (Financial Management and Comptroller) shall include policy oversight for analysis of E3 life cycle costs of major weapons systems and automated information systems.
- d. The Assistant Secretary of the Navy (Energy, Installations and Environment), as the E3 advocate for installations shall:
- (1) Ensure E3 is considered and addressed in the planning, management and operation of DON installations;
- (2) Ensure E3 is considered and addressed in the construction and maintenance of utilities infrastructure; and
- (3) Ensure E3 is adequately addressed for tenant and civilian safety at DON installations.
- e. The Chief of Naval Research, as the science and technology advocate for E3, shall:
- (1) Encourage and promote the inclusion of E3 in research actions; and
- (2) Consider E3 for technologies being considered for immediate acquisition, or for imminent ship integration.
- f. The Department of the Navy, Chief Information Officer (DON CIO), as the E3 advocate for information technology (IT) and principal advisor to the Secretary of the Navy for E3, shall:
- (1) Ensure E3 is considered and addressed in the procurement, planning, and operation of IT systems and equipment throughout the system or equipment lifecycle;

- (2) Address and include EME management in IT policy;
- (3) Represent the DON in DoD, Federal, national, international and commercial E3 related forums; and
- (4) Leverage Navy and Marine Corps SMEs to support Department efforts in DoD, Federal, national, international and commercial EME related forums.
- 7. Records Management. Records created as a result of this instruction, regardless of media and format, shall be managed per Secretary of the Navy Manual 5210.1 of November 2007.

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