



THE UNDER SECRETARY OF THE NAVY
WASHINGTON DC 20350-1000

08 AUG 2019

MEMORANDUM FOR ASSISTANT SECRETARY OF THE NAVY (RESEARCH,
DEVELOPMENT AND ACQUISITION)
CHIEF OF NAVAL OPERATIONS
COMMANDANT OF THE MARINE CORPS

SUBJECT: Reducing Electromagnetic Spectrum Fratricide

References: (a) SECNAV Instruction 2400.1B "Electromagnetic Spectrum Policy and Management" 20 May 2019
(b) SECNAV Instruction 2400.2A "Electromagnetic Environmental Effects and Space Weather Event Preparedness Policy and Management" 2 February 2018
(c) SECNAV Instruction 2400.3 "Electromagnetic Battle Space" 5 October 2018

This memorandum clarifies Department of the Navy (DON) policy and responsibilities stated in references (a) through (c) that the research, development, and acquisition of all spectrum-dependent systems (SDS) must assess the risk of electromagnetic spectrum (EMS) fratricide. SDS include electronic warfare, communications, and radar systems. In this context, EMS fratricide is defined as inadvertent self, friendly, or neutral electromagnetic interference (EMI) caused by SDS.

Reference (a) establishes policy that all SDS shall undergo thorough EMS risk assessments as early as possible via Spectrum Supportability Risk Assessments (SSRAs) to ensure that all SDS developed and/or acquired by the DON comply with applicable procedures to reduce EMI. The Chief of Naval Operations (CNO) and Commandant of the Marine Corps (CMC) shall ensure that Service organizations, commands, units, and installations that procure SDS and equipment conduct EMS SSRAs.

References (b) and (c) address considerations and mitigations of EMS fratricide. Per reference (b), the Assistant Secretary of the Navy (Research, Development and Acquisition) (ASN (RD&A)) shall ensure implementation and execution of survivability standards, policies, and instructions for Navy and Marine Corps SDS. DON organizations shall continually identify, evaluate, and address electromagnetic compatibility risks associated with their respective environments in order to accomplish their warfighting missions. Per reference (c), in coordination with ASN (RD&A), the CNO and CMC shall evaluate systems within the electromagnetic battle space (EMBS) for vulnerability to inadvertent friendly EMI, which could result in EMS fratricide.

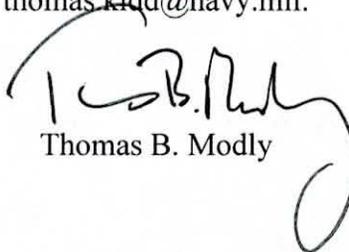
Compliance with references (a) through (c) requires that all SDS complete an SSRA that includes evaluating the risk for inadvertent EMS fratricide. To achieve and maintain EMBS superiority that supports operational success across all warfighting domains, DON SDS risk management assessments such as SSRAs must be developed and coordinated across all phases of

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research, development, and acquisition. For additional information concerning SSRA content, contact <https://usff.navy.deps.mil/sites/NAVIFOR/NMSC/SitePages/SSRA-Information.aspx>.

This guidance will be incorporated into future updates to reference (a). The DON point of contact is Mr. Tom Kidd, 703.695.1978 or thomas.kidd@navy.mil.



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