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MCO 3430.2D
DC I (IMD)
6 Jun 23

MARINE CORPS ORDER 3430.2D

From: Commandant of the Marine Corps
To: Distribution List

Subj: POLICY FOR ELECTROMAGNETIC WARFARE (EW)

Ref: See enclosure (1)

Encl: (1) References

1. Situation. To promulgate policy, guidance, and organizational relationships for electromagnetic warfare (EW) within the Marine Corps, per the references.

2. Cancellation. MCO 3430.2C.

3. Mission.

a. EW operations are conducted in increasingly complex Electromagnetic Operating Environments (EMOE). The use, access, and ability to affect systems operating in the electromagnetic spectrum (EMS) is one of the key aspects of modern warfare. Further, the ability of the Marine Air-Ground Task Force (MAGTF) to establish and maintain EMS freedom of maneuver, while disrupting and denying our adversary's use, at the time and place of the commander's choosing, is critical to mission success across the full range of military operations.

b. Marines must be organized, trained, and equipped to integrate organic and non-organic EW sensor data to gain and maintain situational awareness, target and attack the enemy, and develop and execute protection measures in support of the commander's scheme of maneuver. These integrated EW operations must also be coordinated and synchronized to ensure maximum effectiveness for stand-alone Fleet Marine Force (FMF) operations, as well as complement naval and joint all-domain capabilities or operations that provide opportunities to gain EMS superiority.

c. This Order supports joint electromagnetic spectrum operations (EMSO) policy and establishes the organizational responsibilities and relationships between the different Marine Corps agencies that provide EW capabilities and support to the MAGTF commander.

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d. This Order is in accordance with references (a) through (p).

e. References (a), (b), and (c) provide joint guidance for implementing EW policy throughout the Joint Staff, Services, Combatant Commands (CCMDs), Department of Defense (DoD) agencies, and joint activities.

f. References (d) and (e) provide joint doctrine for EW data sharing, mission planning, coordination, execution, and assessment in support of joint EMSO across the range of military operations.

g. Reference (f) is a memorandum agreeing to transfer responsibility of MCO 3430.2C, Policy for Electronic Warfare, from the Deputy Commandant for Plans, Policies, and Operations (DC PP&O), list of directives to the Deputy Commandant for Information (DC I), list of directives effective 26 January 2021.

h. Reference (g) establishes policy, guidance, and procedures for the effective and efficient management of the EMS and operations of spectrum-dependent systems within the Marine Corps.

i. Reference (h) provides Marine Corps doctrine for EW support, planning, preparation, execution, and assessment in support of joint operations across the range of military operations.

j. References (i) through (k) establish MAGTF EW doctrine, organization, training, materiel, leadership and education, personnel, and facilities (DOTMLPF) working group (DWG). Further, these references clarify DWG membership responsibilities and tasks, as well as those processes used in requirements, acquisitions, capability development, capability gap analysis and planned program execution for Marine Corps systems.

k. References (l) and (m) establish oversight guidance, direction, and priorities for how the Marine Corps is structured, trained, and equipped to meet the future demands of a naval force in the EMOE.

4. Execution

a. Commander's Intent and Concept of Operations

(1) Commander's Intent. The Marine Corps will be organized, trained, and equipped as a naval expeditionary force-in-readiness and prepared to operate inside actively contested maritime spaces in support of fleet operations. This expeditionary force-in-readiness must be capable of establishing and maintaining freedom of maneuver within the electromagnetic battlespace (EMBS) to enable mission success. MAGTF EW must be able to integrate multi-domain capabilities that support the commander's scheme of maneuver, while disrupting and denying our adversary's capability to coordinate use of the EMS,

thereby achieving advantage at the time and place of the commander's choosing. The Marine Corps will:

(a) Provide forces capable of employing EW to support joint operations as appropriate and per DoD and Joint Staff directives and instructions.

(b) Command, control, and coordinate EW operations within the EMBS to maximize desired effects and enable EMS superiority across the full range of military operations.

(c) Individually, and in conjunction with the other Services and combat support agencies, develop EW mission-essential tasks, doctrine, tactics, techniques, procedures, and equipment employable by FMF.

(d) Develop knowledgeable and proficient Marines with EW skills to support the Marine Corps in requirements and capabilities development, acquisitions support, staff planning, and spectrum-dependent system employment.

(e) Create training professionalization programs within Marine Air Ground Task Force Training Command. Training will be provided at both the Tactical Training Exercise Control Group at Marine Corps Air Ground Combat Center, 29 Palms CA, and Marine Aviation Weapons and Tactics Squadron One (MAWTS-1) at Marine Corps Air Station Yuma, AZ. These Centers utilize established, staffed, and equipped electromagnetic warfare red teams (EWRTs) as threat force cadre that support FMF EW training and readiness requirements. These EWRTs will be utilized at each Marine Expeditionary Force and Marine Corps training center for the purpose of EMBS and EMOE familiarization, training and operational analysis, readiness assessment and evaluation, as well as providing training on adversary EW concepts, capabilities, and employment schemes.

(f) Develop a program, which includes a continuous improvement process that indoctrinates and increases the level of awareness and understanding of threat and MAGTF EW capabilities. This program will reinforce the requirement for EW data management at all echelons, and coordination with the EMS operations cell to maximize EW effects for the FMF.

(2) Concept of Operations. Marine Corps EW policy is directed at informing FMF warfighting requirements, concepts of operations, concepts of employment, and providing capabilities to commanders in support of operations in and management of the EMS. Although this Order is focused on providing EW capabilities to FMF commanders, it also works to integrate and coordinate actions of a synchronized force to achieve maximum effectiveness.

b. Subordinate Element Missions

(1) Deputy Commandant for Information (DC I) shall:

(a) Establish Marine Corps EW policy in coordination with DC PP&O, to ensure consistency with references (a) through (f). As such, DC I, will serve as the Marine Corps representative and point of contact to the Office of the Secretary of Defense (OSD), Joint Staff, Services, CCMDs, and external agencies regarding EW policy.

(b) Develop and implement a strategy that integrates EW and spectrum management as EMSO within the Information Warfighting Function.

(c) Coordinate Marine Corps data policy development to ensure the integration of strategic, operational, and tactical EW data collection, parametric databases, and other EMOE sensor data, which can be analyzed, stored, managed, and accessed to support planning efforts at all operational echelons.

(d) Coordinate EW policy development with Service and joint stakeholders to ensure that the integration and sharing of EW data is maximized to the greatest effect.

(e) Advise Marine Corps staff, agencies, and commands on key positions relative to EW capabilities, systems networking, data management, planning, programming, and policy.

(f) Ensure compliance and interoperability of existing and planned EW systems with current DoD and Marine Corps policies and standards.

(g) Coordinate electromagnetic spectrum management to support battlespace awareness and management.

(h) Ensure necessary Service-level intelligence and counterintelligence activities are conducted in support of FMF, naval, and joint EW plans, operations, and actions.

(i) Coordinate studies concerning Marine Corps EW capabilities, requirements, and systems with respect to signals intelligence efforts.

(j) Prepare vulnerability assessments and assist in the review of operational requirements for Marine Corps EW systems and capability development.

(k) Support the assessment of Marine Corps EW system utilization in multi-domain operations to determine operational relevance, potential need for systems upgrades, and any impacts or changes to training and exercising environments.

(l) Review and provide recommendations on applicable intelligence aspects of Planning, Programming, Budgeting, and Execution (PPBE) process for Marine Corps EW systems.

(m) Ensure appropriate coordination of authorities and establish Intelligence Oversight compliance for personnel providing operational support to EW activities.

(n) Assign members to appropriate forums (e.g., boards, advisory panels, working groups, etc.) external to the Marine Corps which require representation on Marine Corps EW policy matters.

(o) Coordinate all Occupational Field (OccFld) 26, Signals Intelligence/Ground EW, Military Occupational Specialty (MOS) matters to ensure support to EW and OIE.

(p) Review and advise on issues relating to the tables of organization, tables of equipment, authorities, and all other personnel billets that support Marine Corps EW.

(2) Deputy Commandant for Plans, Policies, and Operations (DC PP&O) shall:

(a) Coordinate with DC I, on Marine Corps EW policy and operations. DC PP&O, will serve as the Marine Corps representative and point of contact to OSD, Joint Staff, Services, CCMDs, and external agencies regarding operational EW matters.

(b) Assign personnel to serve as members of forums (e.g., boards, advisory groups, working groups, etc.) external to the Marine Corps which require representation on Marine Corps EW operational matters.

(c) Coordinate with OSD, Joint Staff, Services, external agencies, and private industry involving the exchange of information pursuant to improving Marine Corps EW operations.

(d) Coordinate within Headquarters, United States Marine Corps and Marine Corps Agencies on operational EW policy, capabilities, and programs.

(e) Ensure the development of Marine Corps EW systems, policies, or doctrine do not adversely impact existing or developing joint or Allied EW operations.

(f) Ensure EW policy is incorporated in Service-level policy and doctrine.

(3) Deputy Commandant for Combat Development and Integration (DC CD&I) shall:

(a) Serve as the lead for enterprise planning and conduct strategic planning for Marine Corps EW capabilities.

(b) Ensure FMF EW mission areas and concepts are included in appropriate simulations, models, training, and exercises.

(c) Validate EW and EW-related concepts and identify EW capabilities across doctrine, organizations, training, materiel, leadership and education, personnel, facilities, and policy.

(d) Lead future force development process for EW capabilities supported by the Campaign of Learning, the Joint Capabilities Integration and Development System, Total Force Structure Process, Urgent Needs and Deliberate Universal Need Statement Processes, and the Marine Corps Rapid Capabilities Office.

(e) Assign personnel to serve as members of forums (e.g., boards, advisory groups, working groups, etc.) external to the Marine Corps which require Service representation on EW requirements, capabilities, and/or integration matters.

(f) Coordinate with OSD, Joint Staff, Services, CCMDS, Allies, and external agencies regarding FMF EW capability and integration matters, other than policy.

(g) Establish acquisition priorities for FMF EW operational equipment.

(4) Commanding General, Training and Education Command (CG, TECOM) shall:

(a) Ensure Marine Corps EW doctrine and concepts are implemented in appropriate FMF training and education programs.

(b) Identify MOS and billet requirements for instructors that provide EW instruction and curricula development at Marine Corps MOS and PME schools.

(c) Advocate that relevant aspects of FMF EW are incorporated into the curricula of other Service and joint formal schools.

(d) Ensure garrison and installation level training and simulation capabilities are established and maintained to support FMF EW live-virtual-constructive training environments.

(e) Develop and publish Marine Corps Warfighting Publications on EW Tactics, Techniques, and Procedures (TTPs).

(5) Deputy Commandant for Programs and Resources (DC P&R)
shall:

(a) Direct, coordinate, and supervise the implementation of funding decisions that impact EW as those decisions emerge from the PPBE process.

(b) Assess EW funding levels to ascertain compliance with the following:

1. Budget, programming, and resource realities.
2. OSD and Secretary of the Navy's (SECNAVs) guidance.

(c) When necessary, provide budget and programming expertise regarding EW funding decisions to external agencies.

(6) Deputy Commandant for Aviation (DC AVN) shall:

(a) Identify operational requirements, to include appropriate studies, for aviation capabilities and systems as they pertain to EW as a function of Marine Corps Aviation.

(b) Serve as the response sponsor, via the Office of the Chief of Naval Operations (OPNAV) (N3/N5, N2/N6, and N88), for airborne EW systems.

(c) Monitor the operational employment of airborne EW systems to determine operational suitability, requirements for systems upgrades, and changes to tactics.

(d) Review applicable PPBE documentation on airborne EW systems and provide comments and recommendations on the adequacy of those programs.

(e) Assign members to appropriate fora (e.g., boards, advisory panels, working groups, etc.) external to the Marine Corps which require representation on airborne EW policy matters.

(f) Review training and education standards for aviation-specific EW requirements, to include the development of training devices and simulators to accomplish holistic and integrated FMF EW training of aviation personnel.

(g) Coordinate EW plans and activities pertaining to aviation with DC PP&O, DC CD&I, and DC I, to ensure appropriate integration with other Marine Corps EW and electromagnetic battle management (EMBM) systems.

(h) Participate in the formulation, review, and evaluation of joint and combined EW actions and plans.

(i) Coordinate with Commander, Naval Air Systems Command (NAVAIRSYSCOM) and Commander, Marine Corps Systems Command (MARCORSYSCOM) to ensure that adequate EW features are incorporated into aviation systems under development.

(j) Coordinate all aviation EW MOS requirements with appropriate Marine Corps staff.

(7) Deputy Commandant for Installations and Logistics (DC I&L) shall:

(a) Coordinate the total life cycle management of Marine Corps EW systems and programs from inception to disposal, as required by reference (i), to ensure that trends from old systems being replaced are properly addressed in the requirements process.

(b) Coordinate with CG, TECOM, to ensure base and installation tactical EW range modernization and simulators are established, manned, equipped, maintained, and upgraded in accordance with appropriate directives, instructions, and orders to ensure garrison and installation EW training and readiness remain relevant to the demands of a FMF conducting operations in a future EMOE.

(8) Deputy Commandant for Manpower and Reserve Affairs (DC M&RA) shall: Ensure that all Marine Corps and joint EW designated billets are staffed with qualified personnel in accordance with reference (k).

(9) Commander, Marine Corps Systems Command (MARCORSYSCOM) shall:

(a) Conduct research, development, and acquisition activities needed to satisfy requirements validated by DC CD&I, for new and upgraded EW equipment.

(b) Ensure relevant and effective EW features and capabilities are incorporated into systems under development.

(c) Identify and evaluate useful new technologies and advise DC CD&I, of new or improved EW capabilities that may be achievable through the development and exploitation of such technologies.

(d) Provide technical support for the development of new MOS training updates and new equipment training documents.

(e) Provide technical support regarding spectrum management for all Marine Corps EW and spectrum-dependent systems, access to related developmental and testing data and relevant databases (e.g., NATO Emitter Database, EW Integrated and Reprogrammable Data Base, and U.S. Electromagnetic Systems Database).

(f) Coordinate the acquisition, integration, dissemination, and maintenance of EW capabilities into appropriate Marine Corps programs of record.

5. Administration and Logistics

a. Records Management. Records created as a result of this Order shall be managed according to National Archives and Records Administration (NARA)-approved dispositions in reference (l), SECNAV M-5210.1, to ensure proper maintenance, use, accessibility, and preservation, regardless of format or medium. Records disposition schedules are located on the Department of the Navy/Assistant for Administration (DON/AA), Directives and Records Management Division (DRMD) portal page at: <https://portal.secnav.navy.mil/orgs/DUSNM/DONAA/DRM/Records-and-Information-Management/Approved%20Record%20Schedules/Forms/AllItems.aspx>. Refer to reference (n), MCO 5210.11F, for Marine Corps records management policy and procedures.

b. Privacy Act. Any misuse or unauthorized disclosure of Personally Identifiable Information (PII) may result in both civil and criminal penalties. The Department of the Navy (DON) recognizes that the privacy of an individual is a personal and fundamental right that shall be respected and protected. The DON's need to collect, use, maintain, or disseminate PII about individuals for purposes of discharging its statutory responsibilities shall be balanced against the individuals' right to be protected against unwarranted invasion of privacy. All collection, use, maintenance, or dissemination of PII shall be in accordance with reference (o), the Privacy Act of 1974 (5 U.S.C. 552a), as amended, and implemented in reference (p), SECNAVINST 5211.5F.

c. Submit recommended changes to this Order, with complete justification, to Commandant of the Marine Corps (DC I, Information Maneuver Division), via the chain of command.

6. Command and Signal

a. Command. This Order is applicable to the Marine Corps Total Force.

b. Signal. This Order is effective the date signed.


M. C. GLAVY
Deputy Commandant for
Information

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References

- (a) "DoD Electromagnetic Spectrum Superiority Strategy," October 29, 2020
- (b) DoDD 3222.04 w/CH-2, "Electronic Warfare (EW) Policy," March 26, 2014
- (c) CJCSI 3320.01E, "Joint Electromagnetic Spectrum Operations," January 13, 2023 (Classified)
- (d) CJCSI 3210.04B, "Joint Electromagnetic Warfare Reprogramming Policy," December 16, 2022 (Classified)
- (e) Joint Publication 3-85, "Joint Electromagnetic Spectrum Operations," May 22, 2020
- (f) Memorandum for the Record from DC PP&O, to DC I, "Transfer of Marine Corps Orders," January 26, 2021
- (g) MCO 2400.2A
- (h) MCRP 3-32D.1
- (i) "Marine Air Ground Task Force Spectrum Operations: Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, and Facilities Working Group Charter," December 19, 2013
- (j) MCO 4000.57B
- (k) MCO 5320.12H w/Admin CH-2
- (l) SECNAV M-5210.1
- (m) 38th Commandant's Planning Guidance
- (n) MCO 5210.11F
- (o) 5 U.S.C. 552a
- (p) SECNAVINST 5211.5F

APPENDIX A

Glossary of Acronyms and Abbreviations

| | |
|--------------|---|
| CCMDs | Combatant Commands |
| CG, TECOM | Commanding General, Training and Education Command |
| DC AVN | Deputy Commandant for Aviation |
| DC CD&I | Deputy Commandant for Combat Development and Integration |
| DC I | Deputy Commandant for Information |
| DC I&L | Deputy Commandant for Installations and Logistics |
| DC M&RA | Deputy Commandant for Manpower and Reserve Affairs |
| DC P&R | Deputy Commandant for Programs and Resources |
| DC PP&O | Deputy Commandant for Plans, Policies, and Operations |
| DoD | Department of Defense |
| DON | Department of the Navy |
| DON/AA | Department of the Navy/Assistant for Administration |
| DOTMLPF | Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, and Facilities |
| DRMD | Directives and Records Management Division |
| DWG | Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, and Facilities Working Group |
| EMBM | Electromagnetic Battle Management |
| EMBS | Electromagnetic Battlespace |
| EMOE | Electromagnetic Operating Environments |
| EMS | Electromagnetic Spectrum |
| EMSO | Electromagnetic Spectrum Operations |
| EW | Electromagnetic Warfare |
| EWRTs | Electromagnetic Warfare Red Teams |
| FMF | Fleet Marine Force |
| MAGTF | Marine Air-Ground Task Force |
| MARCORSYSCOM | Marine Corps Systems Command |
| MAWTS-1 | Marine Aviation Weapons and Tactics Squadron One |
| MOS | Military Occupational Specialty |
| NARA | National Archives and Records Administration |
| NAVAIRSYSCOM | Naval Air Systems Command |
| OccFld | Occupational Field |
| OPNAV | Office of the Chief of Naval Operations |
| OSD | Office of the Secretary of Defense |
| PII | Personally Identifiable Information |
| PPBE | Planning, Programming, Budgeting, and Execution |
| SECNAV | Secretary of the Navy |