



## DoD DIRECTIVE 5101.14E

# DoD EXECUTIVE AGENT AND SINGLE MANAGER FOR MILITARY GROUND-BASED COUNTER RADIO-CONTROLLED IMPROVISED EXPLOSIVE DEVICE ELECTROMAGNETIC WARFARE TECHNOLOGY

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<b>Reissues and Cancels:</b>	DoD Directive 5101.14, "DoD Executive Agent and Single Manager for Military Ground-Based Counter-Radio Controlled Improvised Explosive Device Electronic Warfare (CREW) Technology," June 11, 2007, as amended
<b>Cancels:</b>	Deputy Secretary of Defense Memorandum, "DoD Executive Agent for Military Ground-Based Counter Radio-Controlled Improvised Explosive Device Electronic Warfare (CREW) Technology," May 24, 2006
<b>Approved by:</b>	Kathleen Hicks, Deputy Secretary of Defense

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**Purpose:** This issuance:

- Establishes policy, assigns responsibilities, and prescribes procedures for a DoD Executive Agent (EA) and Single Manager (SM) for Military Ground-Based Counter Radio-Controlled Improvised Explosive Device Electromagnetic Warfare (CREW) Technology.
- Designates the Secretary of the Army as the DoD EA for CREW in accordance with DoD Directive (DoDD) 5101.01.
- Establishes a Joint CREW Executive Program Board (JCEPB), a CREW Military Technical Acceptance Board (MTAB), and a CREW Science and Technology (S&T) Board to assist in the execution of these assigned responsibilities.

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## SECTION 1: GENERAL ISSUANCE INFORMATION

### 1.1. APPLICABILITY.

This issuance:

- a. Applies to OSD, the Military Departments, the Office of the Chairman of the Joint Chiefs of Staff and the Joint Staff, the Combatant Commands, the Office of Inspector General of the Department of Defense, the Defense Agencies, the DoD Field Activities, and all other organizational entities within the DoD.
- b. Does not modify existing Military Department operational and training responsibilities that involve CREW systems.

### 1.2. POLICY.

- a. CREW technologies and systems provide effective countermeasures to radio-controlled improvised explosive device (RCIED) threats. To achieve effective countermeasures, the DoD must coordinate and collaborate internally and with other Executive departments, government agencies, industry, and international partners.
- b. DoD CREW management procedures improve the efficiency and efficacy of CREW capability development by eliminating duplication of effort while leveraging CREW research and development programs and S&T opportunities.
- c. CREW technologies and systems incorporate and achieve interoperability and electromagnetic compatibility (EMC) with other systems throughout their life cycle.

## SECTION 2: RESPONSIBILITIES

### 2.1. UNDER SECRETARY OF DEFENSE FOR ACQUISITION AND SUSTAINMENT (USD(A&S)).

The USD(A&S) serves as the Principal Staff Assistant responsible for overseeing the activities of the DoD EA for CREW, in accordance with DoDD 5101.01.

### 2.2. SECRETARIES OF THE MILITARY DEPARTMENTS.

The Secretaries of the Military Departments:

a. Establish priorities for CREW, and assign personnel to plan, program, direct, and manage Service CREW policies, capability development, acquisition, fielding, and support. The assignment of personnel includes ensuring individuals are assigned to the panels set out in Paragraphs 3.2., 3.3., and 3.4.

b. Support the DoD CREW SM by providing timely Service CREW information as requested.

c. Conduct research and development, test and evaluation, procurement, and life-cycle support of CREW capabilities to satisfy DoD requirements.

d. Designate:

(1) A voting representative to the JCEPB.

(2) Representatives to the CREW MTAB and CREW S&T Board with the responsibilities identified in Section 3. Representatives are the single point of contact for each Military Service responsible for:

(a) Identifying Military Service requirements for CREW technology.

(b) Assisting in programming for these requirements.

e. Present requirements for CREW technology to the CREW MTAB and JCEPB before those requirements are validated in the Joint Capabilities Integration and Development System or Service unique processes.

f. Ensure:

(1) CREW capability development and fielding plans comply with DoD Instructions (DoDIs) 4650.01 and 3222.03 regarding use of the electromagnetic spectrum.

(2) Systems developed to perform CREW functions and system changes that may affect EMC and interoperability comply with DoD CREW EMC and interoperability standards including Military Standard MIL-STD-464D and DoDI 8330.01.

(3) CREW programs and databases achieve maximum standardization, interoperability, and compatibility in fulfilling common worldwide requirements, in coordination with the Under Secretary of Defense for Acquisition and Sustainment and the DoD Chief Information Officer. Establish joint program offices when common CREW capabilities are identified and cannot be satisfied by a single Military Service provider.

(4) CREW capabilities are evaluated for vulnerability to potential hostile electromagnetic spectrum activity, exploitation by foreign intelligence sources and methods, and inadvertent friendly electromagnetic interference.

(5) Test and evaluation of CREW capabilities is conducted in operationally representative, complex electromagnetic environments in accordance with DoDI 5000.89. Plan and conduct periodic assessments of CREW capabilities.

g. Organize, train, and equip Service personnel to operate in joint, interagency, and multinational electromagnetic warfare (EW) environments.

h. Develop Military Department CREW doctrine and tactics.

i. Develop, and update as needed, Military Service EW roadmaps that support the DoD CREW strategy developed and coordinated by the Joint Staff.

j. Conduct education, training, and exercises to provide for the successful planning, integration, and execution of CREW capabilities in operationally representative environments. Ensure CREW training is mission-driven and of sufficient capacity and complexity to execute present and future operations in different threat environments.

### **2.3. SECRETARY OF THE ARMY.**

In addition to the responsibilities in Paragraph 2.2., and in their capacity as the DoD EA for CREW, the Secretary of the Army:

a. Designates a general officer or Senior Executive Service-level civilian as the DoD CREW SM.

b. Establishes a program management office for CREW technology to support the DoD CREW SM in:

(1) Execution of all roles, responsibilities, and authorities in Paragraph 3.1.

(2) Information security, horizontal technology protection, program protection planning, counterintelligence, intelligence, foreign disclosures, international programs, export controls, cybersecurity, industrial security, operations security, and other government agency interactions.

c. Ensures all funding in support of the DoD EA for CREW is identified separately in the DoD annual budget.

d. Sponsors joint CREW capability requirements in the Joint Capabilities Integration and Development System, as funded by the Military Services.

#### **2.4. ASSISTANT SECRETARY OF DEFENSE FOR SPECIAL OPERATIONS AND LOW-INTENSITY CONFLICT.**

The Assistant Secretary of Defense for Special Operations and Low-Intensity Conflict:

a. Exercises authority, direction, and control of United States Special Operations Command (USSOCOM) in all matters directed by Paragraphs 2.2., 3.2., and 3.3. in accordance with DoDD 5111.10.

b. Assists USSOCOM in the requirements validation process for CREW technology.

c. Provides a non-voting member to the JCEPB.

#### **2.5. COMMANDER, USSOCOM.**

The Commander, USSOCOM, subject to the authority, direction, and control of the Assistant Secretary of Defense for Special Operations and Low-Intensity Conflict, executes the responsibilities directed in Paragraphs 2.2., 3.2., and 3.3.

## **SECTION 3: ROLES, RESPONSIBILITIES, AND AUTHORITIES OF THE DoD CREW SM AND CREW BOARDS**

### **3.1. ROLES, RESPONSIBILITIES, AND AUTHORITIES.**

The DoD CREW SM:

- a. Supports and represents the DoD EA for CREW in execution of their responsibilities as described in this issuance.
- b. Chairs the JCEPB.
- c. Through the JCEPB, directs efforts of the CREW S&T Board and the CREW MTAB.
- d. Provides recommendations to the appropriate CREW and acquisition program decision bodies, based on MTAB and CREW S&T reviews.
- e. Identifies joint and Service-unique CREW requirements.
- f. Reviews operational and technical characteristics, logistics support plans, and test results of CREW systems to identify joint interoperability and EMC issues and risks.
- g. Reviews and makes recommendations for CREW system compliance with joint, interagency, intergovernmental, multi-national, and Military Service CREW standards for EMC and interoperability.
- h. Facilitates the standardization of CREW tools, equipment, documentation, and procedures among the Military Services and USSOCOM to enable interoperability and EMC, and to maximize efficient use of DoD resources.
- i. Coordinates RCIED technical exploitation with the Director, Defense Intelligence Agency; Joint Improvised-Threat Defeat Organization; Counter-Improvised Explosive Device Task Force; and EW Communities of Interest to inform CREW research and development, interoperability and EMC requirements, and CREW system planning, development, and resourcing. The DoD CREW SM will coordinate with the Advanced Techniques Development Working Group (led and funded by the Navy) and Global Threat Integration Program working groups (led and funded by the Army) for CREW-related work.
- j. Coordinates with the DoD EA for Military Explosive Ordnance Disposal Technology and Training to achieve management efficiencies.
- k. Serves as the primary DoD point of contact for international security cooperation programs and international exchange agreements (including the North Atlantic Treaty Organization) on CREW technology issues. Reviews and coordinates requests from coalition partners, foreign governments, foreign military sales cases, and other government agencies for CREW technology, interoperability, and EMC agreements in accordance with DoDIs 5530.03 and 2040.02.

l. Provides oversight, coordinates, and reviews foreign visit requests and assignment of foreign nationals throughout the Joint CREW community for both government and industry, in accordance with DoDD 5230.20.

m. Acts as the original classification authority up to and including TOP SECRET collateral for CREW technology and serves as the primary DoD point of contact for joint CREW classification management.

n. Exercises the CREW delegated disclosure authority to approve foreign disclosure of classified military information and controlled unclassified information to foreign governments and international organizations in accordance with DoDD 5230.11. Reviews, coordinates, and oversees CREW export control and requests for exception to the national disclosure policy in accordance with procedures in DoDD 5230.11.

o. Reviews Service and USSOCOM plans for CREW program protection and horizontal technology protection to ensure compliance with DoDIs 5000.02 and 5200.39.

p. Reports to the USD(A&S), through the DoD EA for CREW, on the adequacy of S&T plans and budget to meet joint CREW technology needs.

q. Provides a biennial report, through the DoD EA for CREW to the USD(A&S), on Service CREW technology, resource roadmaps and S&T investments. The report will address system interfaces, transitions, and overall readiness of CREW systems to meet emerging missions. The report will document the JCEPB reviews and recommendations during the reporting period.

### **3.2. JCEPB.**

The JCEPB:

a. Is chaired by the SM and comprised of representatives of the Military Services and USSOCOM. The JCEPB includes non-voting members from the Department of Justice, the Federal Bureau of Investigation, and the SM for Explosive Ordnance Disposal Technology and Training.

b. Performs CREW technology oversight to avoid duplication of effort and resolve CREW technology problems for DoD.

c. Ensures all CREW technology programs:

(1) Conform to program architectures and achieve interoperability with other DoD and allies' CREW systems and achieve compatibility with DoD command, control, and communications, and EW equipment.

(2) Submit requests for frequency approval to the cognizant military frequency management office to ensure CREW technology programs comply with national and host-nation spectrum management policies in accordance with DoDI 4650.01 and Part 300 of Title 47, Code of Federal Regulations.



(3) Perform electromagnetic environmental effects analysis to quantify the mutual effects of CREW technology programs within all intended operational electromagnetic environments in accordance with DoDI 3222.03.

d. Provides CREW technology policy in support of international engagements, interoperability, and EMC.

e. Provides direction to the CREW MTAB and CREW S&T boards.

f. Serves as the Military Service and USSOCOM focal point for CREW technology, program, and joint CREW requirements; CREW technology planning, programming, and budgeting; and CREW technology acquisition.

g. Reviews and endorses annual CREW S&T plans and budget and advises the SM on their adequacy to meet joint CREW technology needs.

### **3.3. CREW MTAB.**

The CREW MTAB:

a. Is comprised of representatives from the Military Services and USSOCOM as voting members, and non-voting representatives from the Department of Justice, Federal Bureau of Investigation, and the Explosive Ordnance Disposal MTAB.

b. Is chaired by one of the voting members for 1 year and rotated through the voting members thereafter. The MTAB chair may be extended in 1-year increments at the majority request of the MTAB and the approval of the JCEPB.

c. Carries out responsibilities under the guidance of the SM and the JCEPB.

d. Includes members responsible for coordinating within their own Military Service and organizations on CREW interoperability requirements and EMC issues. Issue resolution will address operational and technical capabilities, and logistics considerations of CREW technologies and systems and will span current and future timeframes.

e. Exchanges information on capability, operational, and technical RCIED issues, and improvised explosive device (IED) threats observed and forecast worldwide.

f. Coordinates with the Force Protection Functional Capabilities Board to review CREW gaps and requirements prior to Joint Requirements Oversight Council or Service/USSOCOM validation, in accordance with Chairman of the Joint Chiefs of Staff Instruction 5123.01I. Recommends to the SM and JCEPB whether the requirements are joint or unique to a Service or unique to USSOCOM and will identify any potential interoperability or EMC issues.

g. Coordinates CREW system EMC and interoperability issues before and in support of acquisition program milestone decisions or when a system change potentially impacts EMC or interoperability. Recommends corrective actions to the SM and JCEPB.

- h. Provides a joint Military Service recommendation to the SM on requests for CREW operational and technical information from U.S. and foreign agencies.
- i. Maintains awareness of the capabilities and inventory of DoD CREW technologies and systems. Recommends opportunities to minimize duplication among DoD efforts to the SM and to the JCEPB.
- j. Reviews the applicability and recommends CREW EMC and interoperability standards to the SM and JCEPB. Establishes and reviews standard testing protocols to demonstrate compliance with CREW EMC and interoperability standards. Provides joint force compatibility and interoperability status, risks, and issues to the SM as requested for awareness and decision.
- k. Prioritizes DoD CREW capability gaps to inform CREW S&T roadmap recommendations.
- l. Reviews and recommends courses of actions for CREW technical issues not otherwise delegated within DoD, as authorized or directed by the SM.

### **3.4. CREW S&T BOARD.**

The CREW S&T Board:

- a. Is comprised of representatives of the Military Services, Office of the Under Secretary of Defense for Research and Engineering, and USSOCOM, who are cognizant of their organization's current CREW S&T efforts, strategic research, and resource plans for future CREW capabilities. Members will participate in EW and Counter IED communities of interest to maintain awareness of broader EW and Counter IED S&T efforts.
- b. Nominates one CREW S&T member to be designated as chair for a 1-year term. The chairmanship may be extended in 1-year increments with the majority approval of the CREW S&T Board and the SM's concurrence. The chair rotation order is Army, Navy, Air Force, Marines, and USSOCOM.
- c. Carries out its responsibilities under the guidance of the SM and JCEPB.
- d. Maintains awareness of CREW S&T efforts and recommends opportunities to eliminate duplication in CREW S&T to the SM and JCEPB.
- e. Develops a biannual roadmap that recommends CREW S&T priorities to the SM and JCEPB. The CREW S&T roadmap will include objectives and resourcing of CREW S&T technology, identify interoperability initiatives, and map MTAB provided capability gaps to CREW S&T initiatives.

## GLOSSARY

### G.1. ACRONYMS.

<b>ACRONYM</b>	<b>MEANING</b>
CREW	counter radio-controlled improvised explosive device electromagnetic warfare
DoDI	DoD instruction
EA	executive agent
EMC	electromagnetic compatibility
EW	electromagnetic warfare
IED	improvised explosive device
JCEPB	Joint Counter Radio-controlled Improvised Explosive Device Electromagnetic Warfare Executive Program Board
MTAB	Military Technical Acceptance Board
RCIED	radio-controlled improvised explosive device
SM	single manager
S&T	science and technology
USD(A&S)	Under Secretary of Defense for Acquisition and Sustainment
USSOCOM	United States Special Operations Command

### G.2. DEFINITIONS.

Unless otherwise noted, these terms and their definitions are for the purpose of this issuance.

<b>TERM</b>	<b>DEFINITION</b>
<b>CREW</b>	Systems using the electromagnetic spectrum to prevent or inhibit the intended operation of an RCIED.
<b>IED</b>	Defined in the DoD Dictionary of Military and Associated Terms.
<b>RCIED</b>	Any IED whose arming or functioning incorporates or includes the use of a radio transmitter or receiver.

## REFERENCES

- Chairman of the Joint Chiefs of Staff Instruction 5123.01I, “Charter of the Joint Requirements Oversight Council and Implementation of the Joint Capabilities Integration and Development System,” current edition
- Code of Federal Regulations, Title 47, Part 300
- DoD Directive 5101.01, “DoD Executive Agent,” February 7, 2022
- DoD Directive 5111.10, “Assistant Secretary of Defense for Special Operations and Low-Intensity Conflict,” May 5, 2021
- DoD Directive 5230.11, “Disclosure of Classified Military Information to Foreign Governments and International Organizations,” November 7, 2023
- DoD Directive 5230.20, “Visits and Assignments of Foreign Nationals,” June 22, 2005
- DoD Instruction 2040.02, “International Transfers of Technology, Articles, and Services,” March 27, 2014, as amended
- DoD Instruction 3222.03, “DoD Electromagnetic Environmental Effects (E3) Program,” August 25, 2014, as amended
- DoD Instruction 4650.01, “Policy and Procedures for Management and Use of the Electromagnetic Spectrum,” January 9, 2009, as amended
- DoD Instruction 5000.02, “Operation of the Adaptive Acquisition Framework,” January 23, 2020, as amended
- DoD Instruction 5000.89, “Test and Evaluation,” November 19, 2020
- DoD Instruction 5200.39, “Critical Program Information (CPI) Identification and Protection Within Research, Development, Test, and Evaluation (RDT&E),” May 28, 2015, as amended
- DoD Instruction 5530.03, “International Agreements,” December 4, 2019
- DoD Instruction 8330.01, “Interoperability of Information Technology, Including National Security Systems,” September 27, 2022
- Military Standard MIL-STD-464D, “Electromagnetic Environmental Effects Requirements for Systems,” December 24, 2020
- Office of the Chairman of the Joint Chiefs of Staff, “DoD Dictionary of Military and Associated Terms,” current edition