

# **New FM 3-36 – Electronic Warfare**

## **a/o 6 Jan 09/ 0800**

### **THEMES**

- The Army is rapidly reestablishing its Electronic Warfare capability after a period of atrophy.
- A key pillar of this process is the writing and publication of new electronic warfare doctrine.
- Publication of this new doctrine will help establish the foundation upon which to build personnel structure, materiel, training and education

### **MESSAGES**

- Electronic warfare skills need to be incorporated at every level of command from platoon to Corps – swift promulgation by the Army of the new doctrine will facilitate developing these skills.
- The Army needs to change its culture overall to ensure that CNO-EW principles backed by training and equipment are fully incorporated into the Army. The Army needs to incorporate the principles and doctrine outlined in FM 3-36 as rapidly as possible in order to deal with both current and future EW threats.

### **FACTS**

#### **Doctrine, Concepts, and Organizational Design.**

- A new Field Manual (FM) 3-36, Electronic Warfare, is on-track for Winter 2009 release.
- **Status.** The Doctrine Review and Approval Group (DRAG) version of FM 3-36 is complete. After final review, the FM will be published in first quarter 2009.

- **Roll-out.** Document was approved in December 2008. Major roll-out actions will consist of: pre-release to select media and members of Congress as soon as publication is available; the roll-out anchor event for the announcement – a AUSA panel, tentatively scheduled for 26 Feb 09; an announcement of the release ‘the day of’ through the Army and CAC webpages, Stand-to, AUSA position papers; and electronic posting on the web accompanied by mass e-mail notification to senior Army leadership on or about 26 Feb 2009.

### **Why do we need new EW doctrine?**

- FM 3-36 provides Army doctrine for electronic warfare planning, preparation, execution, and assessment in support of full spectrum operations.
  - It is the Army’s first overarching EW keystone doctrinal document; previous doctrinal manuals were not comprehensive enough to provide an encompassing framework for development of cohesive doctrine at all levels.
  - As such, the new FM provides the foundation and framework for developing coordinated and cohesive EW at all echelons nested under the FM 3-0.
- Moreover, existing Army EW doctrine is outdated and not sufficient to provide Army forces with the information required to plan or conduct effective EW operations in support of land forces.
- Additionally, current EW doctrine does not follow Joint EW doctrine since no Army keystone EW doctrinal publication exists.
- Obsolete EW doctrine:
  - FM 34-72 (Reprogramming) MTTP for Reprogramming of Electronic Warfare and Target Sensing Systems, dated Jan 2003 -- the most recent doctrine for EW.
  - Field Manual (FM) 34-45, Tactics Techniques and Procedures for Electronic Attack, published in 9 Jun 2000

- FM 34-10, Division Intelligence and Electronic Warfare Operations, dated 25 Nov 86
  - FM 34-37, Echelons Above Corps (EAC) Intelligence and Electronic Warfare (IEW) Operations, dated 15 Jan 1991
  - These EW doctrinal manuals often refer to organizations, systems and capabilities that either no longer exist or that are no longer relevant to current Army operations.
- Given the increase in non-traditional use of EW, and the threat presented by adversarial use of the Electromagnetic Spectrum, Army EW doctrine requires revision.

### **How will new doctrine be implemented?**

- Users of FM 3-36 must be familiar with full spectrum operations established in FM 3-0; the military decision-making process established in FM 5-0; the operations process established in FMI 5-0.1; commander's visualization described in FM 6-0; and electronic warfare described in JP 3-13.1, *Electronic Warfare*.
- Current and future Army forces will typically be organized as part of joint and/or multinational forces.
  - Whether involved in offensive, defensive, stability operations or civil support operations, EW will play a critical role in successful mission accomplishment. FM 3-36 will provide the Army the doctrinal foundation required to support current and future joint and/or multinational operations and further EW DOTMLPF development and integration.
- This manual implements joint Electronic Warfare doctrine established as JP 3-13.1 Electronic Warfare, dated 25 January 2007 which superseded JP 3-51 Electronic Warfare. FM 3-36 will focus on: the broad application of EW across the spectrum of operations; the organizational structure for planning, coordinating, synchronizing, and executing EW operations; the relationship of EW with Information Operations and Electromagnetic Spectrum Operations (EMSO); and will provide applicable new terms, definitions, and principles.

### **How is the new FM 3-36 organized; and what will be its scope?**

- **Organization.** FM 3-36 is organized into seven chapters and six appendixes. Each chapter addresses a major aspect of Army EW operations. The appendixes address aspects of EW operations that complement the operational doctrine. An annotated glossary contains selected terms.
  - Chapter 1 discusses the nature and scope of electronic warfare and the impact of the electromagnetic environment on Army operations.
  - Chapter 2 offers a discussion of EW support to full spectrum operations, combat power, the warfighting functions, and information operations.
  - Chapter 3 introduces the organizational framework for command and control of EW operations.
  - Chapter 4 describes how commanders integrate EW operations throughout the operations process—plan, prepare, execute, and assess.
  - Chapter 5 discusses the coordination required to synchronize and deconflict EW operations effectively.
  - Chapter 6 provides the baseline for integrating EW operations into joint and multinational operations.
  - Chapter 7 discusses the enabling activities that provide support to EW operations such as command and control, intelligence, logistics, technical support and EW training.
  - The appendixes provide greater depth to several areas discussed in the FM such as the electromagnetic environment, current capabilities, tools and resources that EW personnel can leverage in their efforts to support Army operations.
- **Scope.** FM 3-36 provides guidance on EW operations for commanders at all echelons and is the authoritative reference for Army personnel involved in the development of doctrine (fundamental principles and tactics, techniques, and procedures), materiel, force structure, institutional and unit training, and standing operating procedures for unit operations. It is applicable to the Active Army, Army National Guard/Army National Guard of the United States, and U.S. Army

Reserve, and informs the Joint audience on Army electronic warfare operations.

## **BACKGROUND**

- **Origin of USACEWP.**
  - **Where we were prior to 2001:**
    - EW capability was greatly reduced within the Army following the end of the Cold war due to perception that a large capability would not be required due to no peer enemies.
    - EW training courses had virtually disappeared.
    - The last EW trained graduate was in mid-1990.
    - Doctrine was obsolete; much of the existing doctrine pertained to kinds of units that no longer existed in the Army inventory.
  - **IEDs.**
    - Impetus to revitalize EW came from Improvised Explosive Device (IED) experience in Iraq and Afghanistan
    - Insurgents were using such items as off-the-shelf garage door openers and cell phones to detonate IEDs.
    - Army was simply not prepared to deal with EW threat from insurgents using low-level EW technology to detonate.
    - The Army had to call upon other Services, especially the Navy, to provide trained personnel and capability to deal with the threat: currently 250-300 Navy and Air Force EWOs support Land Forces operations.

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