

AIR FORCE ELECTRONIC WARFARE CENTER

LINEAGE

AF Special Communications Center
AF Electronic Warfare Center

STATIONS

Kelly AFB, TX 1 Jul '75-9 Sept '93
Kelly AFB, TX, 8 Aug 1953
San Antonio, TX

ASSIGNMENTS

COMMANDERS

Col. Steven S. Peacock

HONORS

Service Streamers

Campaign Streamers

Armed Forces Expeditionary Streamers

Decorations

EMBLEM

EMBLEM SIGNIFICANCE

MOTTO

NICKNAME

OPERATIONS

The Air Force Electronic Warfare Center, which is collocated with command headquarters, provides electronic combat analysis and support to Air Force elements. Formed during the Vietnam War, the center is a primary source of electronic warfare and C'CM analysis and advice for the Air Force.

The center maintains a massive data base of electronic combat-related information that is used throughout the Department of Defense. Its members use high-speed computers to provide combat commanders with analytical reports on major exercises and on electronic warfare

systems effectiveness. The data they provide assists strategic and tactical commanders in making electronic combat decisions. They also perform analysis to support planning, developing, testing and using the latest electronic warfare equipment.

The center supports the electronic combat acquisition process from development of statements of need through final testing by providing specialized analyses to Air Force major commands and the Air Staff.

The Air Force Electronic Warfare Center is the Air Force's in-house consultant on electronic combat. It provides evaluation, analysis, test and planning support to electronic combat activities throughout the Air Force, as well as maintaining data bases of electronic combat related material used throughout the Department of Defense.

The center's electronic warfare mission began in 1966 with the task of evaluating the use of electronic warfare in Southeast Asia. The results, provided to combat commanders under the nickname Comfy Coat, contributed directly to reduced combat air losses. From this beginning, the center has expanded its support into virtually every phase of electronic combat, from concept formulation to systems employment.

The unit's primary task is still the evaluation of the effectiveness of electronic warfare in combat and contingency operations. The center supports operational commands during peacetime, assists in planning and evaluates electronic warfare in military exercises, such as Red Flag at Nellis AFB, Nev.

Effectiveness of electronic warfare asset employment is assessed and feedback is provided to commanders and aircrews.

A new mission at AFEWC is to continually provide analysis and project impact of observed threat changes to the operational commands. These analyses are used to reprogram software, change tactics and identify system deficiencies for the start of a new requirements development process and acquisition cycle for systems modification and/or replacement. The AFEWC also helps the operating commands with their operational-needs statements and system operational requirements to ensure the major issues are resolved before validation.

Collocated with ESC headquarters in San Antonio, AFEWC is authorized 469 military and civilian people. They are trained in the areas of electronic warfare, engineering, operations research, intelligence, radar, communications and computer applications.

AFEWC is divided into six directorates: electronic warfare field operations; resource management; Constant Web command, control and communications countermeasure database operations; electronic warfare data research; studies and analysis and electronic combat intelligence.

The office of automation support is the staff element of AFEWC.

Using automated analysis methods and computer models, the center evaluates the development

and operational capability of electronic warfare systems in relation to hostile threats and assesses the vulnerability of selected U.S. systems to hostile electronic combat attack. Both sides of the equation are evaluated — the capability of offensive systems and techniques to suppress hostile weapons and command, control and communications systems and the vulnerability of U.S. systems to hostile electronic combat.

A broad range of support to Air Force developmental and operational testing of electronic combat equipment is also provided. This involves planning, specialized data collection using sophisticated mobile measurement systems, analysis and reporting.

The center's role in the Air Force

Simulator Validation program is to validate all classes of Air Force operational and training simulators. It also participates in electronic warfare integrated programming, an Air Force program designed to manage reprogrammable electronic warfare equipment.

The center assists this process by flagging and analyzing threat changes that could adversely affect electronic warfare reprogrammable systems on such systems as the B-52, EF-111, F-15 and F-16 aircraft.

AFEWC maintains an all-source data base to support electronic combat planning, electronic threat analysis and reporting, friendly and hostile system references and operations and acquisitions.

Electronic warfare operations manages support to exercises, field tests, training activities and simulator validation and reprogramming. It is responsible for maintaining readiness to conduct electronic warfare combat evaluations. Resource management is responsible for management services, unit plans and requirements, resource allocations and priorities, budget, manpower and personnel actions and logistics.

Electronic warfare data research provides an up-to-date base of information on parameters, technical descriptions, tactics and use of all friendly and hostile systems. Electronic combat intelligence, in coordination with the Air Force Intelligence Agency, performs all source electronic threat analysis and reporting.

Studies and analysis directs technical studies investigating the current and planned capabilities of U.S. electronic warfare systems to suppress hostile systems and vulnerability of U.S. electronic systems to attack by hostile electronic warfare. Constant Web acts as the manager of integration, development and production of the C3CM support data base.

The AFEWC commander, Col. Steven S. Peacock, said, "The Air Force Electronic Warfare Center is undergoing a great evolutionary process. Besides experiencing a significant growth in our assigned tasks, we have now added new mission responsibilities to our electronic combat functions.

"The center stands ready to meet the ever-changing challenges of the electronic combat world and continue to meet users' needs in all areas."

AFEWC	AFOEA	2 JAN 79 - 31 DEC 81
	AFOUA	1 DEC 75 - 25 OCT 77
	AFOEA	1 JAN 74 - 1 JAN 76
	AFOEA	1 JAN 76 - 1 JAN 79
	AFOEA	1 JAN 86 - 31 DEC 87

Post-Vietnam Mission Changes The redesignation of the Air Force Special Communications Center on 1 July 1975 as the Air Force Electronic Warfare Center (AFEWC) gave USAFSS a greater role in the USAF's expanding electronic warfare mission.

On 1 July, USAFSS redesignated AFSCC as the Air Force Electronic Warfare Center (AFEWC) to more accurately reflect the center's electronic warfare mission and give it greater visibility throughout the Defense Department. 1975

1976 AFEWC learned that it had been awarded the Air Force Organizational Excellence Award covering the period 1 January 1974 to 1 January 1976 in recognition of its ". . . comprehensive operational electronic warfare support to the DoD, Joint Chiefs of Staff, and all of the military services . . ."

On 10 September, the HQ Air Force Electronic Warfare Center was redesignated HQ Air Force Information Warfare Center (AFIWC). 1993

NEW MISSION FOR AFEWC

The Air Force Electronic Warfare Center received a new mission—support of electronic combat on 18 May 1988. The center received its first EC testing and acquisition tasking the following June. Much of the center's workload involved evaluations of Soviet and Chinese weapons.

On 20 April 1992, the Secretary of the Air Force delegated AFIC the authority to disclose information on the characteristics and performance of key Russian and Chinese aerodynamic weapons and related systems.

With electronic warfare evolving into information warfare (IW), the AFEWC became the Air Force Information Warfare Center in 1993. The AFIWC is discussed later.

With computer networking gaining ground and internet communications expanding at an explosive rate both in the military and civilian spheres, the Electronic Security Command became more involved in data automation and computer security. The Air Force Cryptologic Support Center assumed responsibility for computer security.

Closely supporting efforts of ESC field units are the Air Force Electronic Warfare Center and the Air Force Cryptologic Support Center.

The AFEWC is a primary source of EW and C3CM analysis. It provides battle commanders with analytical reports on EW systems' effectiveness. AFEWC assists strategic and tactical commanders in making combat decisions and perform analysis to support planning, developing, testing and using EW equipment.

The change began with the 10 September 1993 establishment of the Air Force Information Warfare Center (AFIWC) at Kelly AFB. That action combined the AFEWC with the security functions from the Air Force Cryptologic Support Center. The AFIWC received a primary mission to channel all electronic battle field information toward the objective of gaining information dominance over any adversary. Thus, AFIWC became a significant player in AIA activities.

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Air Force Electronic Warfare Center (AFEWC)

Kelly AFB, Texas

Provides electronic combat analysis/support. Maintain a massive database of EC-related information used throughout DoD.

Air Force Order of Battle

Created: 19 Sep 2010

Updated:

Sources

AFHRA