

**BY ORDER OF THE COMMANDER  
AIR FORCE SPACE COMMAND**

**AIR FORCE SPACE COMMAND MISSION  
DIRECTIVE 5-220**



**10 OCTOBER 2013**

**Organization and Mission – Field  
688TH CYBERSPACE WING (688 CW)**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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(Brigadier General David J. Buck)

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This mission directive (MD) implements policy and guidance in Air Force Policy Directive (AFPD) 10-1, *Mission Directives*, Air Force Instruction (AFI) 10-101, *Format and Content of Mission Directives*, AFI 38-101, *Air Force Organization*. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with (IAW) AFMAN 33-363, *Management of Records*, and disposed of IAW the Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS). Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using Air Force (AF) Form 847, *Recommendation for Change of Publication*; route AF Forms 847 from the field through the appropriate functional's chain of command. AFSPC groups and squadrons cannot supplement this document without prior approval of the HQ AFSPC/A3. Upon mobilization, this mission directive also applies to AFSPC-gained Air National Guard (ANG) units and members under USC Title 10 status. In addition, it applies to all AFSPC-gained Air Force Reserve Command (AFRC) units and members.

**SUMMARY OF CHANGES**

This is a new document and must be completely reviewed. This document supersedes specific paragraphs outlined within the Memorandum Of Agreement (MOA) on AFSPC Information Operations (IO) Support to Air Combat Command (ACC): 4.2.1.2 – 4.2.1.2.1.6, 5.6.2, and 5.9 - 5.11.5.

**1. Mission.** The 688 CW delivers innovative Information Operations (IO) and system/infrastructure engineering and integration capabilities across the air, space and cyberspace domains.

**2. Command.** The Commander, 688 CW:

- 2.1. Reports to and operates under the policy and guidance of the 24th Air Force.
- 2.2. Commands the forces of the 688 CW, Lackland Air Force Base, San Antonio, Texas. The Wing is composed of two groups: the 318th Cyberspace Operations Group (318 COG), Lackland AFB, San Antonio, Texas and the 38th Cyberspace Engineering Installation Group (38 CEIG), Tinker AFB, Oklahoma City, OK. The 688 CW/CC oversees the Wing support staff.
- 2.3. Works with HQ ACC/A3I and A8I to enhance AF IO programs. HQ ACC/A3I and A8I are authorized Direct Liaison Authority (DIRLAUTH) to coordinate IO education development, support, tactics, concept development, analysis and assessment with appropriate elements of 688 CW.

**3. Responsibilities.** The Commander, 688 CW:

- 3.1. Explores new technologies, conducts developmental and operational testing and evaluations, creates Tactics, Techniques and Procedures (TTP) and trains the next generation of Information Operations (IO), Military Information Support Operations (MISO), Military Deception (MILDEC), Operations Security (OPSEC) and cyber warriors.
- 3.2. Develops and coordinates all IO, MISO, MILDEC and OPSEC Task Training Lists (TTL) and training Syllabi; TTP development; exercise support; and reachback support requirements with ACC/A3.
- 3.3. Equips and supports cyber warriors through real-time innovation, integration and transition of technological IO solutions to the USAF.
- 3.4. Coordinates with the Air Force Life Cycle Management Center's Cyber Solutions Cell to provide guidance and assistance on defining needs and to develop Cyber Acquisition Courses of Action.
- 3.5. Exercises "associate unit" responsibilities with designated reserve component units.
- 3.6. Develops IO, MISO, MILDEC, OPSEC and cyber tactics for Joint and AF Operational planners in support of current and future operations.
  - 3.6.1. Plans and participates in AF and joint exercises for the purpose of capturing and evaluating IO, MISO, MILDEC, OPSEC and cyber TTPs.
  - 3.6.2. Plans and participates in AF exercises and operations involving information-related capabilities (IRC).
- 3.7. Tests and evaluates emerging IO, MISO, MILDEC, OPSEC and offensive and defensive network capabilities for operational forces, national agencies and the acquisition community.
- 3.8. Maintains, evolves and operates cyber test ranges and assets to support exercise, test, training and mission rehearsal events.
- 3.9. Performs TEMPEST and specialized testing of facilities, communications links, computer networks and aircraft in support of the AF Emissions Security (EMSEC) Program.
- 3.10. Performs Communications Security (COMSEC) assessments in accordance with the Committee on National Security Systems Instruction 4005; performs account management

controlling access to AF cryptographic material and manages AF COMSEC Incident program.

3.11. Operates the Air Force IO and cyber formal training unit providing Airmen with technical, tactical and operational skills required to plan missions and operate USAF IO, MISO, MILDEC, OPSEC and offensive and defensive network capabilities for operational forces, national agencies, and the acquisition community.

3.12. Executes defensive counter cyberspace missions on AF and DoD networks and systems in defense of core AF functions and to ensure critical DoD missions.

3.13. Executes vulnerability assessments on AF and DoD networks and systems in order to ensure appropriate integrity, security and network defense posture is enforced.

3.14. Advances USAF IO, MISO, MILDEC and OPSEC capabilities in collaboration with U.S. Government agencies in the National Capitol Region.

3.15. Integrates IO, MISO, MILDEC and OPSEC capabilities planning and execution into the Combat Air Forces' training at the operational and tactical levels.

3.16. Provides support to IO, MISO, MILDEC, OPSEC and cyber operational-level planning and assessment conducted by C-NAF/C-MAJCOMs.

3.17. Plans, engineers and delivers survivable and resilient command, control, communications and computer (C4) infrastructure to establish the cyberspace domain and enable offensive and defensive air, space and cyberspace operations worldwide; provides these services worldwide across the full range of military operations supporting DoD, Joint and AF operations.

3.17.1. Plans, engineers and delivers a survivable and resilient infrastructure to establish the cyberspace domain and enable the AF to conduct netcentric offensive and defensive air, space and cyberspace operations.

3.17.2. Provide special mission teams to increase the resiliency and defensive posture of AF mission networks. Deploys cyber system integrators throughout CONUS and area of responsibility (AOR) bases to assess mission network capability and vulnerability shortfalls, design solutions and to be involved in their implementation.

3.18. Provides program management for centralized implantation of C4 requirements/projects including the management and oversight of active/Air National Guard military and contract implantation resources as Chair of the Air Force Engineering and Installation Total Force Group.

3.19. Provides specialized contracting capabilities in support of the Wing's worldwide Engineering and Installation (E&I) mission and 24 AF mission-related requirements.

3.19.1. Awards and administers contracting vehicles for AF-wide C4 project implementations.

3.19.2. Provides contractual coverage for all local telephone service across the CONUS and for E&I service contracts implementing a variety of 38 CEIG managed projects.

3.19.3. Awards and administers services contracts to support 24 AF mission-related operational needs, including technical and cyber operations security and support services.

3.20. Provides legal advice, consultation and review on issues involving state public utility commission and Federal Communication Commission requirements/regulations and Federal Acquisition Regulation/Defense Federal Acquisition Regulation Supplement.

3.21. Manages and sustains cyberspace infrastructure capabilities. Coordinates with HQ AFSPC and acquisitions community to develop new capabilities for the Cyberspace Infrastructure Planning System.

3.22. Provides and maintains mobile electromagnetic (radio frequency - RF) and telecommunications specialized engineering services.

3.22.1. Supports specialized High Altitude Electromagnetic Pulse testing capabilities.

3.22.2. Maintains rapidly deployable (within 72 hours) Radio Direction Finding and Frequency Analysis capabilities to meet AF and Combatant Commander (CCDR) requirements.

3.22.3. Provides specialized Electromagnetics Radiation Hazard survey capabilities.

3.22.4. Provides specialized electromagnetic (radio frequency) interference characterization and analysis.

3.22.5. Troubleshoots and develops solutions for network and circuit performance issues.

3.22.6. Tests and evaluates facility power, grounding and lightning protection systems.

3.23. Maintains a rapidly deployable (within 72 hours) E&I capability to meet AF and CCDR contingency requirements.

3.24. Provides organic E & I project engineering and installation services including fiber optic and copper cable, network equipment, communication towers, antenna, radio, radar and airfield systems.

3.25. Performs network health and vulnerability assessments, remediation, optimization assistance and event-driven response actions through Scope EDGE and other special mission teams.

3.26. Provides the primary Air Force interface for AF Defense Information Services Network (DISN) and non-DISN long haul communications services requirements, provisioning, budgeting and management.

3.27. Provides consolidated AF systems management and logistics support for AF common communications systems, including network, voice, radio frequency, transmission, cable, antenna and personal wireless communications systems.

3.28. Develops, resources and sustains 688 CW plans, programs and manpower to satisfy warfighter requirements. Provides underlying mission support functions to optimize Wing operations.

3.29. Provides financial and human resource management advice used to deliver optimum, affordable cyberspace engineering and installation warfighting capabilities.

WILLIAM L. SHELTON, General, USAF  
Commander

**Attachment 1****GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFPD 10-1, *Mission Directives*, 21 June 2002

AFI 10-101, *Format and Content of Mission Directives*, 12 February 2003

AFI 38-101, *Air Force Organization*, 16 March 2011

Memorandum of Agreement On AFSPC IO Support To ACC, 14 Jun 13

***Adopted Forms***

AF Form 847, *Recommendation for Change of Publication*

***Abbreviations and Acronyms***

**AFFOR**—Air Force Forces

**AOR**—Area of Responsibility

**C4**—Command, Control, Communications and Computers

**CEIG**—Cyberspace Engineering Installation Group

**CCDR**—Combatant Commander

**COG**—Cyberspace Operations Group

**CONUS**—Continental United States

**CSI**—Cyberspace Systems Integrator

**CW**—Cyberspace Wing

**DISN**—Defense Information Services Network

**DoD**—Department of Defense

**E & I**—Engineering and Installation

**EMSEC**—Emissions Security

**IO**—Information Operations

**IRC**—Information-Related Capabilities

**MAJCOM**—Major Command

**NAF**—Numbered Air Force

**RF**—Radio Frequency

**TTP**—Tactics, Techniques and Procedures