

**BY ORDER OF THE COMMANDER  
SPACE OPERATIONS COMMAND**

**SPACE OPERATIONS COMMAND  
MISSION DIRECTIVE 301**



**27 SEPTEMBER 2022**

***Mission Directive***

***ELECTROMAGNETIC WARFARE  
SQUADRONS***

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This Space Force Mission Directive (SPFMD) implements policy and guidance in Air Force Policy Directive (AFPD) 38-1, *Manpower and Organization*, and Air Force Instruction (AFI) 38-101, *Manpower and Organization*. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with (IAW) AFI 33-322, *Records Management and Information Governance Program*, and disposed of IAW the Air Force Records Information Management System Records Disposition Schedule. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using AF Form 847, Recommendation for Change of Publication; route AF Forms 847 from the field through the appropriate functional's chain of command. This publication may not be supplemented or further implemented/extended. Submit requests for waivers through the chain of command to the appropriate Tier waiver approval authority, or alternately, to the Publication OPR for non-tiered compliance items. This SPFMD defines the mission, organization, and responsibilities of the United States Space Force (USSF) Space Delta 3 (DEL 3) Electromagnetic Warfare Squadrons (EWS). Mission Directive (MD) for DEL 3 is codified in SPOCMD300. This MD defines the mission, organization, and responsibilities of the USSF Electromagnetic Warfare Squadrons. This MD does not direct, however makes reference to, Air National Guard (ANG) or Air Force Reserve Command (AFRC) units and members and their associations with USSF EWS.

**1. Mission.** The mission of DEL 3 is to generate, present, and sustain combat-ready Electromagnetic Warfare (EW) professionals to integrate, synchronize, and execute fires for U.S., Allied, and Coalition forces. EW includes both offensive and defensive operations to ensure freedom of action in space and, when directed, defeat efforts to interfere with or attack U.S. or allied space systems. The DEL 3 subordinate squadrons that provide EW are the 4th, 5th, and 16th EWS. The 4 EWS is organized under Deployment Identification Code 9 Unit Type Code of “1SCDA – SPC ELECTROMAGNETIC WARFARE (SEW) SQUADRON”. The 5 EWS and 16 EWS are organized under Deployment Identification Code 9 Unit Type Code of “1SCGA – SPC ELECTROMAGNETIC WARFARE SUPPORT SQUADRON”.

### 1.1. Electromagnetic Warfare Squadrons.

1.1.1. **4 EWS Organized/Designed Mission(s):** Located on Peterson SFB, Colorado, the 4 EWS provides Space Electromagnetic Warfare (SEW) effects to Joint Force Commanders, as directed. The mission of 4 EWS is to mobilize trained and equipped electromagnetic warfare capabilities to execute space electromagnetic warfare operations in support of Combatant Commanders’ priorities.

1.1.1.1. **4 EWS Weapon System(s)/Equipment:** The Counter Communications System (CCS) is a transportable electromagnetic warfare system that reversibly denies adversary satellite communications, delivering fires in support of decisive action to achieve JFC objectives.

1.1.1.2. **4 EWS Applicable Threat Environments:** 4 EWS is organized and designed to operate in all threat levels defined in Joint Publication (JP) 3-10 the Joint Security Operations in Theater: Threat Level 1, Threat Level 2, and Threat Level 3.

1.1.1.3. **4 EWS Future Requirements:** 4 EWS will be responsible for countering adversaries’ use of space assets to protect U.S. interests. This will require an increasing understanding of the combat environment as well as the current state of technology. These systems will leverage current intelligence on adversary centers of gravity to create the greatest effect possible, while taking adversary response into account to create the greatest sustainment of effects possible.

1.1.1.4. **4 EWS Air Reserve Component (ARC) Total Force Integration (TFI) relationships:** There are multiple Headquarters Space Operations Command (HQ SpOC) gained ARC units that perform the Electromagnetic Warfare mission.

1.1.1.4.1. **Air National Guard:** Four Air National Guard units that perform an Electromagnetic Warfare mission include the 293d SPCS, located in Hawaii with a projected Initial Operating Capability (IOC) in 2024; the 216th SPCS, located in California; the 138th SPCS, located in Colorado; and the 114th SPCS, located in Florida. These units train and deploy members to employ the CCS weapon system to execute space electromagnetic warfare operations in support of Combatant Commanders’ priorities. These units will maintain system readiness, training and participate in DEL 3, and Higher Headquarters (HHQs) directed exercises.

1.1.1.4.2. **Air Force Reserve:** The 710 Operations Group Detachment 1, an Air Force Reserve unit located at Peterson SFB, CO, is being established to provide a total force associate mission partner relationship with 4 EWS. 710 OG Det 1 will provide manpower to augment 4 EWS in the accomplishment of their mission.

## 1.2. Electromagnetic Warfare Support Squadrons.

1.2.1. **5 EWS Organized/Designed Mission(s):** Located on Peterson SFB, Colorado, the 5 EWS provides combat ready electromagnetic warfare forces to the CDR USSPACECOM in order to protect and defend US and Allied global operations.

1.2.1.1. **5 EWS Weapon System(s)/Equipment:** The 5 EWS weapon system is Non-Mission ready and is therefore not presented. Information on this system is classified at a higher classification. For specifics on the 5 EWS weapon system and equipment, contact the document OPR.

1.2.1.2. **5 EWS Applicable Threat Environments:** 5 EWS is organized and designed to operate in Threat Level 1, Threat Level 2, and Threat Level 3.

1.2.1.3. **5 EWS Future Requirements:** 5 EWS will help achieve space superiority through providing EW effects. 5 EWS will continue to adapt through weapon system upgrades and sustainment to address advancing/evolving threats and ensure reliable, unambiguous, timely, and accurate data in support of all assigned missions.

1.2.1.4. **5 EWS ARC TFI relationship:** There are no TFI associations with 5 EWS.

1.2.2. **16 EWS Organized/Designed Mission(s):** Located on Peterson SFB, Colorado, the 16 EWS provides combat-ready space warfighters defending the space domain with space control systems for our Nation, the Joint Force, and Allies. The 16 EWS vision is to be the DoD's premier Space Electromagnetic Warfare Squadron driving world-wide Joint Force operations.

1.2.2.1. **16 EWS Weapon System(s)/Equipment:** 16 EWS operates, maintains, and manages the Bounty Hunter (BH) system that provides electromagnetic warfare support (ES) to operational commanders that search for, intercept, identify and locate or localize sources of intentional and unintentional radiated electromagnetic energy for the purpose of immediate threat recognition, targeting, planning and to conduct future operations.

1.2.2.2. **16 EWS Applicable Threat Environments:** 16 EWS is organized and designed to operate in Threat Level 1, Threat Level 2, and Threat Level 3.

1.2.2.3. **16 EWS Future Requirements:** 16 EWS will be responsible for providing C2 authorities and users with spectral awareness information, as well as, specific Satellite Communication (SATCOM) signal of interest (SOI) monitoring and geolocation data. The BH system will become more automated to keep pace with ever increasing signal demand, technology, and capability. The BH system will improve processing speed, accuracy, and capacity to enable enhanced performance in support of specific warfighter missions.

1.2.2.4. **16 EWS ARC TFI relationships:** There are currently two Headquarters Space Operations Command (HQ SpOC) gained ARC units that perform the Electronic Warfare Support mission: the Guam ANG, Space Control Squadron (SPCS) located at Andersen AB, Guam and the 380 SPCS located at Peterson SFB.

1.2.2.4.1. **Air National Guard:** The GUANG SPCS, Andersen AB, Guam. GUANG SPCS is projected to have Initial Operating Capability (IOC) in 1Q24. Operators train, deploy, and employ the BH weapon system to support SATCOM

Electromagnetic Interference (EMI) Resolution to theater commanders across the full range of military operations. They will maintain system readiness, training and participate in DEL 3, and Higher Headquarters (HHQs) directed exercises.

1.2.2.4.2. **Air Force Reserve:** The 380 SPCS, at Peterson SFB, Colorado is a unit under the 310th Space Wing and is a classic associate unit to 16 EWS. 380 SPCS provides manpower to augment 16 EWS in the accomplishment of their mission. The 380 SPCS Mission Directive is AFRCMD11-032.

**2. Command.** When EWS force packages are presented to combatant commands for employment against mission requirements, they will fall under that command's C2 structure. Resource management for EWS is provided by the Commander, Space Operations Command (SpOC/CC) via DEL 3. USSF SpOC is the responsible Lead Command, Using Command, Operating Command, Functional Area Manager, and Management Headquarters for electromagnetic warfare systems contained in this Field MD. The unit commander is authorized to communicate, coordinate, and work with other units or agencies on matters relating to mission accomplishment or regarding administrative or logistical support under applicable agreements and memorandums of understanding.

### **3. Responsibilities.**

- 3.1. Comply with requirements identified in all HHQ instructions, DAFIs, SPFIs, DAFMANs, and SpOCIs including: AFI 1-2 *Commander's Responsibilities*; AFSPCI 10-605, *Operational Acceptance Process*; AFD 13-6, *Space Policy*; AFSPCI 10-1204, *Satellite Operations*; and SPOCMAN13-6 Counter Communication System (CCS) Volumes 1 through 3.
- 3.2. Ultimately responsible for accomplishing assigned missions.
- 3.3. Unit members are trained, evaluated, and certified mission ready EW professionals.
- 3.4. Provides administrative and logistical support to assigned personnel.
- 3.5. Evaluates on-site contractor performance (if any) in accordance with the statement of work (SOW) and guidance from the contracting officer.
- 3.6. Ensures adequate security is provided to protect any restricted access facilities and resources.
- 3.7. Assumes overall responsibilities for space systems maintenance, operations, training, evaluation, and engineering.
- 3.8. Provides for the accounting, control, safeguarding, disbursing, and collection of government funds.
- 3.9. Provides data collection, processing, and reporting of operations and identifies capability assessment.

3.10. Ensures adequate support is provided per host-tenant/host-government agreements and memorandums of understanding and agreements (MOUs/MOAs).

3.11. Implements procedures for accommodating new mission requirements or system enhancements.

DOUGLAS A. SCHIESS  
Major General, USSF  
Deputy Commanding General, Operations

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

AFPD 38-1, *Manpower and Organization*, 2 July 2019

AFI 1-2, *Commander's Responsibilities*, 8 May 2014

AFI 38-101, *Manpower and Organization*, 29 August 2019

AFI33-322, *Records Management and Information Governance Program*, 27 July 2021

AFSPCI 10-605, *Operational Acceptance Process*, 19 June 2016

AFSPCI 10-1204, *Satellite Operations*, 11 May 20

AFPD 13-6, *Space Policy*, 13 August 2013

SPOCMAN13-6CCS *Volumes 1 through 3*

***Prescribed Forms***

None

***Adopted Forms***

**AF Form 847**, *Recommendation for Change of Publication*

***Abbreviations and Acronyms***

**AF**—Air Force

**AFI**—Air Force Instruction

**AFPD**—Air Force Policy Directive

**AFRC**—Air Force Reserve Command

**ANG**—Air National Guard

**ARC**—Air Reserve Component

**C2**—Command and Control

**CC**—Commander

**CCS**—Counter Communications System

**CDRUSSPACECOM**—Commander, United States Space Command

**CFSCC**—Combined Force Space Component Commander/Command

**DAFI**—Department of the Air Force Instruction

**DEL**—Delta

**EMI**—Electromagnetic Interference

**ES**—Electromagnetic Warfare Support

**EWf**—Electromagnetic Warfare Flight  
**EWS**—Electromagnetic Warfare Squadron  
**HHQ**—Higher Headquarters  
**HQ SpOC**—Headquarters Space Operations Command  
**IAW**—In Accordance With  
**IOC**—Initial Operating Capability  
**JP**—Joint Publication  
**OPR**—Office of Primary Responsibility  
**MD**—Mission Directive  
**MOA**—Memorandum of Agreement  
**MOU**—Memorandum of Understanding  
**SATCOM**—Satellite Communication  
**SOW**—Statement of Work  
**SPCS**—Space Control Squadron  
**SPFI**—Space Force Instruction  
**SPFMD**—Space Force Mission Directive  
**SpOC**—Space Operations Command  
**SpOCI**—SpOC Instruction  
**SEW**—Space Electromagnetic Warfare  
**TFI**—Total Force Integration  
**USSF**—United States Space Force