

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



**AIR FORCE SPACE COMMAND  
MISSION DIRECTIVE 5-410**

**10 SEPTEMBER 2018**

**Organization and Mission - Field**

**SPACE AND MISSILE SYSTEMS  
CENTER (SMC)**

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This mission directive (MD) implements policy and guidance in Air Force Policy Directive (AFPD) 38-6, *Mission Directives*, Air Force Instruction (AFI) 38-601, *Format and Content of Mission Directives*, AFI 38-101, *Air Force Organization*. Upon mobilization, this mission directive also applies to AFSPC-gained Air National Guard (ANG) units and members under United States Code Title 10 status. 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.

***SUMMARY OF CHANGES***

Responsibilities have been added and clarified for the SMC Commander. Additionally, mission support responsibilities for the SMC have been expanded and clarified.

**1. Mission.** The Space and Missile Systems Center (SMC) is the center of technical excellence for researching, developing and acquiring military space systems. The Center is responsible for providing space and missile systems that include communications, precision navigation and timing, spacelift, space situational awareness, missile warning, missile defense, weather monitoring to space-based environmental monitoring (SBEM), and space command and control

systems to Air Force Space Command (AFSPC), the joint warfighter, and the nation across the spectrum of conflict, including conflicts that extend into space. Additionally, SMC is responsible for providing ground-based space weather sensing, analysis, forecasting and exploitation capabilities to Air Combat Command (ACC), AFSPC or other DoD users. These responsibilities include managing these systems across their entire life-cycle, from initial systems concepts and technology development, to systems demonstration and validation, full-scale development and fielding, production, and sustaining on-orbit and ground capabilities, while incorporating the agility to respond to and defeat the actions of a thinking adversary. SMC consists of major units, staff directorates, and programs. SMC is located at the Los Angeles Air Force Base (LAAFB) and additional, geographically separated locations. The 61st Air Base Group (61 ABG) provides infrastructure support for SMC Headquarters at LAAFB as their subordinate unit.

**2. Command.** The Commander, SMC:

2.1. Reports directly to AFSPC/CC.

2.2. Serves as the Air Force Program Executive Officer for Space (AFPEO-Space) with the overall responsibility, authority, and accountability for executing National Security Space Programs as directed by the Air Force Acquisition Executive. These responsibilities include both directing and executing assigned space development and acquisition programs, as well as developing the processes and expertise to manage these programs and the operation of the Center.

**3. Responsibilities.** The Commander, SMC:

3.1. Is responsible for executing the full life cycle of activities for space programs as established by law, regulations, and policies and as specifically assigned and delegated through the Air Force chain of command and the Department of Defense acquisition management chain.

3.1.1. Organizes, trains, and equips Materiel Systems Directorates (or System Program Offices) to procure space systems as described in AFI 63-101/20-101. Selects and assigns key acquisition leaders as Directors with relevant experience and credentials.

3.1.2. Efficiently develops military space capabilities by conducting integrated development planning, Intelligence Supportability Analysis and focused technology maturation, to include science and technology needs.

3.1.3. Develops , acquires, fields, and sustains reliable, effective, and affordable global positioning, navigation and timing services and Nuclear Detection System capabilities for military, allies, civil, and world-wide users.

3.1.4. Develops, acquires, fields, integrates, and sustains space launch range capabilities in support of government launch, commercial launch, and test and evaluation operations. Administers integrated support contract in support of operations on AFSPC's eastern and western ranges

3.1.5. Develops, acquires, fields, and sustains reliable, effective and affordable space-based infrared surveillance, tracking and targeting capabilities for the nation to include missile warning, missile defense, technical intelligence, and battlespace awareness.

- 3.1.6. Develops and maintains Space Superiority enterprise and solution architecture products in partnership with and as directed by HQ AFSPC. Develops, acquires, fields, and sustains reliable, effective and affordable offensive and defensive space control capabilities to ensure space superiority for the joint warfighter and the nation.
- 3.1.7. Maintains flight worthiness certification authority for all SMC-procured SVs and launch systems/services in accordance with AFSPCI 10-1208.
- 3.1.8. Develops, acquires, fields, sustains and operates advanced responsive space systems, demonstrations, targets, and small launch vehicles.
- 3.1.9. Develops, acquires, fields, and sustains affordable space-based, ground-based space weather sensors, and launch range terrestrial weather systems to meet ACC, AFSPC, DoD and national environmental monitoring requirements.
- 3.1.10. Develops, fields, modernizes and sustains an integrated ground control and range network, which includes Air Force and other DoD stations and is interoperable with other government agencies and commercial transmit and receive capabilities; acquires hardware and software to operationally control DoD/National/Allied/Civil satellites and enables a resilient enterprise ground capability.
- 3.1.11. Collaborates with Air Force Life Cycle Management Center (AFLCMC) and other product centers as applicable to ensure seamless delivery of cross-domain capabilities including, but not limited to: Cyber and intelligence, surveillance and reconnaissance.
- 3.1.12. Develops, acquires, fields, integrates, and sustains national spacelift capabilities.
- 3.1.13. Develops, acquires, fields and sustains synchronized operational-level space battle management, command and control systems to enable military and national objectives. These systems provide scalable user-defined operating pictures and generate decision aids and response options, enabling real time decision making.
- 3.1.14. Develops, acquires, fields, and sustains resilient and persistent Space Situational Awareness (SSA) to provide threat warning and attack assessment and detect, track, identify, and characterize capabilities.
- 3.1.15. Identifies, develops, and manages projects to ensure the overall viability of the US Industrial Base in support of current and future programs.
- 3.1.16. Where appropriate, partners with other development and sustainment organizations to provide combat effective solutions.
- 3.2. Establishes and ensures the functional directorates, including engineering, program management, financial management, safety, contracting, logistics, and personnel, develop and maintain the expertise, processes, and workforce necessary to plan and execute SMC programs.
- 3.2.1. Provides systems engineering (SE) capabilities as defined in AFI 63-101/20-101 that address architecting, requirements development and management, design, technical management and control, and test and evaluation (T&E) / verification and validation (V&V). In addition, provides enterprise-level architecting, systems engineering, and

Modeling, Simulation, and Analysis (MS&A) support to enable, acquire, and sustain space warfighting capabilities and multi-domain operations.

3.2.2. Provides advice and contract management to the space community for the timely execution of necessary actions to acquire superior weapon systems.

3.2.3. Efficiently develops and demonstrates military space capabilities through integrated development planning and focused technology maturation.

3.2.4. Provides quality acquisition products, processes, tools and expertise to acquire and sustain integrated and affordable systems for the control and exploitation of air and space.

3.2.5. Provides financial management systems, funds control, cost estimating support and other direct support to programs in addition to policy, guidance and independent review.

3.2.6. Provides life cycle logistics capabilities as identified in AFI 63-101/20-101 that address product support planning and execution for the life of the system/program.

3.2.7. Provides Systems Engineering technical and management processes that ensure baselined characteristics of systems do not degrade as a result of operational use, configuration changes, maintenance repairs, aging, parts substitutions or obsolescence, and similar activities.

3.2.8. Provides Mission Assurance capability through the application of proven scientific, engineering, safety, quality, program management process and principles, risk management and the conduct of independent assessments throughout a program's life cycle to achieve mission success.

3.2.9. Is responsible for the cybersecurity of assigned space mission systems

JOHN W. RAYMOND  
General, USAF  
Commander

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

AFPD 38-6, *Mission Directives*, 23 December 2014  
AFI 38-601, *Format and Content of Mission Directives*, 7 January 2015  
AFI 38-101, *Air Force Organization*, 31 January 2017  
AFI 63-101/20-101, *Integrated Lifecycle Management*, 9 May 2017  
AFMAN 33-363, *Management of Records*, 1 March 2018

***Adopted Forms***

AF Form 847, *Recommendation for Change of Publication*

***Abbreviations and Acronyms***

**AFLCMC**—Air Force Life Cycle Management Center  
**AFPEO-Space**—Air Force Program Executive Officer for Space  
**DoD**—Department of Defense  
**LAAFB**—Los Angeles Air Force Base  
**MD**—Mission Directive  
**NRO**—National Reconnaissance Office  
**SE**—Systems Engineering  
**SMC**—Space and Missile Systems Center  
**SPO**—Systems Program Office  
**T&E**—Test and Evaluation  
**V&V**—Verification and Validation