

**BY ORDER OF THE SECRETARY  
OF THE AIR FORCE**

**AIR FORCE INSTRUCTION 13-500**

**14 NOVEMBER 2018**



***Nuclear, Space, Missile, Command and  
Control***

***AIR FORCE NUCLEAR  
MISSION RESPONSIBILITIES***

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

---

**ACCESSIBILITY:** Publications and forms are available on the e-Publishing website at [www.e-publishing.af.mil](http://www.e-publishing.af.mil) for downloading or ordering

**RELEASABILITY:** There are no releasability restrictions on this publication

---

OPR: AF/A10P

Certified by: HQ USAF/A10P  
(Col David A. Rickards)

Pages: 32

---

This publication implements Air Force Policy Directive (AFPD) 13-5, *Air Force Nuclear Mission*. This instruction applies to all Regular Air Force, Air National Guard, Air Force Reserve, Department of the Air Force civilian personnel, and contractors, if included in the applicable contract, tasked with the responsibility to operate, maintain, control, secure, inspect, manage, and account for nuclear equipment and accomplish nuclear-related tasks. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with (IAW) Air Force Manual (AFMAN) 33-363, *Management of Records*, and disposed of IAW Air Force Records Information Management System Records Disposition Schedule. Refer recommended changes and questions about this publication to the Office of Primary Responsibility using the Air Force Form 847, *Recommendation for Change of Publication*. Route Air Force Forms 847 from the field through the appropriate functional chain of command. This publication may be supplemented at any level, but all supplements must be routed to the Office of Primary Responsibility of this publication for coordination prior to certification and approval. The authorities to waive wing/unit level requirements in this publication are identified with a Tier ("T-0, T-1, T-2, T-3") number following the compliance statement. See Air Force Instruction (AFI) 33-360, *Publications and Forms Management*, for a description of the authorities associated with the Tier numbers. Submit requests for waivers through the chain of command to the appropriate Tier waiver approval authority, or alternately, to the requestor's commander for non-tiered compliance items.

1.	Purpose.....	3
2.	Roles and Responsibilities.....	3
<b>Attachment 1— GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION</b>		<b>26</b>
<b>Attachment 2— AIR FORCE NUCLEAR MISSION GOVERNING BODIES</b>		<b>30</b>
<b>Attachment 3— KEY FUNCTIONS OF THE AIR FORCE NUCLEAR MISSION</b>		<b>31</b>
<b>Attachment 4— NUCLEAR OCCUPATIONAL COMPETENCIES</b>		<b>32</b>

**1. Purpose.** This publication provides Air Force guidance for the management of the Air Force nuclear mission, assigns specific responsibilities, and establishes relationships among Air Force organizations for its efficient and effective operation. This instruction also defines key functions of the Air Force nuclear mission and provides guidance for Air Force nuclear governing bodies. Air Force nuclear mission roles and responsibilities, key functions, and governing bodies were removed from AFPD 13-5 and included in this publication. Nuclear Mission Assessments have been added as a result of Congress signing Title 10 United States Code (USC) § 8040, *Oversight of Nuclear Deterrence Mission*, into law.

## **2. Roles and Responsibilities.**

### **2.1. Deputy Chief of Staff for Strategic Deterrence and Nuclear Integration (AF/A10).** AF/A10 will:

2.1.1. Conduct monitoring and oversight activities regarding the safety, security, reliability, and effectiveness of Air Force nuclear weapons and nuclear weapons systems, planning, strategy, and policy development, and assessment of Air Force nuclear mission activities. Key Air Force nuclear mission functions are described in [Attachment 3](#).

2.1.2. Conduct periodic, comprehensive assessments of all aspects of the Air Force's nuclear deterrence mission required by 10 USC § 8040 and provide these assessments to the Secretary of the Air Force (SecAF) and the Chief of Staff of the Air Force (CSAF). Reference [paragraph 2.18](#) for Nuclear Mission Assessment roles and responsibilities.

2.1.3. Serve as the Air Force entry point for the Office of the Secretary of Defense, Joint Staff, Air Staff, major commands (MAJCOM), Department of Energy, and other agencies concerning matters related to the Air Force nuclear mission.

2.1.4. On behalf of the SecAF and the CSAF, represent the Air Force to the Nuclear Weapons Council IAW 10 USC § 179, *Nuclear Weapons Council*, and to the National Leadership Command Capability (NLCC) Executive Management Board. Provide support to organizations subordinate to the Nuclear Weapons Council.

2.1.4.1. Act as the primary Air Force interface to the Department of Defense (DoD) Chief Information Officer as the chair for the NLCC Executive Management Board and its subordinate boards and working groups, providing technical information and framing issues to support Air Force Nuclear Command, Control and Communications (NC3) requirements.

2.1.5. In coordination with the Air Force Warfighting Integration Center, integrate strategic planning and future concept development for nuclear weapons and nuclear weapon systems across the Air Force.

2.1.6. Lead Air Force participation in DoD-sponsored program budget reviews and participate in Service-level programming, budgeting, and resourcing activities (e.g., Air Force NLCC/NC3 programs and resources).

- 2.1.6.1. Present Air Force nuclear mission equities to stakeholders and identify innovative and cost-effective solutions throughout the strategy, planning, and programming process. Close coordination among appropriate organizations ensures the planning, programming, budgeting, and execution (PPBE) process reflects not only nuclear mission risk-assessed capabilities, gaps, and shortfalls but also sustainment, modernization, and recapitalization plans.
- 2.1.7. Lead Headquarters Air Force (HAF) efforts in the assessment of NC3 programs, policies, and capabilities to ensure that the Service budgets, develops, acquires, supports, and maintains assigned NC3 systems and Air Force elements of the National Military Command System.
- 2.1.7.1. Coordinate with Chief, Information Dominance and Chief Information Officer (SAF/CIO A6) on NC3-related Senior Leader Command, Control, and Communications System-Airborne systems.
- 2.1.7.2. Coordinate with the Principal Assistant to the Secretary for Space (SAF/SP) on Integrated Tactical Warning and Attack Assessment space capabilities and survivable/endurable NC3 systems.
- 2.1.8. Develop, implement, and evaluate Air Force Personnel Reliability Assurance Program policy and procedures IAW DoD Manual (DoDM) 5210.42, *Nuclear Weapons Personnel Reliability*; provide oversight of the Air Force Personnel Reliability Assurance Program; liaise with the Department of the Army, Department of the Navy, and other DoD agencies on DoD Personnel Reliability Assurance policy interpretation; and serve as the technical advisor on behalf of the SecAF for issues related to the Air Force Personnel Reliability Assurance Program.
- 2.1.9. Provide guidance and advocacy for deterrence research and for the development of education and training for nuclear-related career fields in coordination with Air Education and Training Command (AETC).
- 2.1.10. As the Air Force Nuclear Enterprise Functional Authority appointed by the SecAF, provide direction, advocacy, and integration for the health of nuclear career fields through the accession, retention, and deliberate development of nuclear Airmen (reference [Attachment 4](#) for nuclear occupational competencies). The Nuclear Enterprise Functional Authority prioritizes limited resources, defines and articulates human capital requirements, validates and approves key nuclear billets, deliberately develops assigned Airmen, and supports other nuclear-related functional authorities.
- 2.1.10.1. As the Nuclear and Missile Operations career field (Air Force Specialty Code 13N) functional authority and functional manager, provide strategic oversight for nuclear force development efforts. Charter, convene, and chair development teams, support accession processes, and validate advanced academic degree requirements and professional continuing education requirements in coordination with Deputy Chief of Staff, Manpower, Personnel and Services (AF/A1).
- 2.1.11. Lead arms control and international treaties implementation and compliance measures that affect the Air Force nuclear mission as well as conventional arms control treaties, agreements, and nonproliferation measures.

2.1.12. Lead policy and guidance development for the peacetime airlift of nuclear and nuclear-related cargo IAW the *DoD Foreign Clearance Guide*, the *DoD Foreign Clearance Guide, Special Weapons Overflight Guide Supplement*, and AFMAN 13-526, *Nuclear Airlift Operations*. Manage the Aircraft and Personnel Automated Clearance System to process aircraft and personnel travel requests.

2.1.13. Lead Air Staff coordination of Air Force nuclear capability requirements, arms control implementation, and Countering Weapons of Mass Destruction programs within the Air Force Corporate Structure in coordination with the Office of the Secretary of Defense, Joint Staff, combatant commanders (CCDR), Services, and interagency partners.

2.1.14. Fulfill Nuclear Oversight Board (NOB) and Nuclear Issues Resolution and Integration (NIRI) Board responsibilities described in [Attachment 2](#).

**2.2. Deputy Chief of Staff, Manpower, Personnel, and Services (AF/A1).** In coordination with AF/A10, AF/A1 will:

2.2.1. Oversee personnel management, accessions, development, requirements, utilization, and sustainment of the Service's nuclear-related Regular Air Force and federal civilian personnel to ensure a fully-qualified force.

2.2.2. Support AF/A10 in identifying methods to capture key nuclear billets and other nuclear human capital requirements in the Manpower Programming and Execution System.

2.2.3. Serve as subject matter expert for Air Force specialty codes related to key nuclear billets, additional qualification designators, and enlisted classifications.

2.2.4. Integrate nuclear human capital planning and programming requirements into Air Force resource allocation and PPBE process.

2.2.5. Assemble information from existing reports, processes, surveys, and databases, and provide deliverables to AF/A10 to inform the Air Force's comprehensive Nuclear Mission Assessment (reference [paragraph 2.18](#)).

**2.3. Deputy Chief of Staff, Intelligence, Surveillance, and Reconnaissance (AF/A2).** In coordination with AF/A10, AF/A2 will:

2.3.1. Develop and maintain recurring intelligence products covering non-United States (U.S.) nuclear systems and incorporating threat assessments and analysis of security risks and vulnerabilities; promulgate these products across Air Combat Command (ACC), Air Force Global Strike Command (AFGSC), Air Force Space Command (AFSPC), Air Force Materiel Command (AFMC), AF/A10, subordinate units, and other units at the request of ACC, AFGSC, AFSPC, AFMC, or AF/A10.

2.3.2. Establish policies and processes to provide intelligence support and threat analysis to Air Force NLCC/NC3 program members IAW AFI 14-111, *Intelligence Support to the Acquisition Life-Cycle*, and share intelligence support and threat analysis products with ACC, AFGSC, AFSPC, AFMC, United States Air Forces in Europe (USAFE), AF/A10, subordinate units, and other units at the request of ACC, AFGSC, AFSPC, AFMC, or AF/A10.

2.3.3. Provide Air Force intelligence community cybersecurity policy, guidance, and oversight for all Air Force NC3 Sensitive Compartmented Information systems.

2.3.4. Advise AFGSC regarding Sensitive Compartmented Information architecture requirements for NC3 systems.

**2.4. Deputy Chief of Staff, Operations (AF/A3).** In coordination with AF/A10, AF/A3 will:

2.4.1. Assist in the integration of nuclear and conventional forces into operational strategies, organizational concepts, policy, and guidance.

2.4.2. Include nuclear operations capabilities and effects in appropriate concepts of operations and properly coordinate all nuclear and related National Military Command System requirements with AF/A10.

2.4.3. Participate in executing the orders and direction of the President of the U.S., Secretary of Defense, Joint Staff, or National Military Command Center during actual or exercise nuclear weapons accidents and incidents.

2.4.4. Maintain Air Force key capability areas, to include nuclear capabilities identified within the Air Force Nuclear Enterprise Capability Viewpoints, at the direction of AFGSC.

2.4.5. Include Air Force nuclear mission and Air Force NLCC/NC3 capabilities into the Air Force Warfighter Mission Area.

2.4.6. Assemble information from existing reports, processes, surveys, and databases, and provide deliverables to AF/A10 to inform the Air Force's comprehensive Nuclear Mission Assessment (reference [paragraph 2.18](#)).

**2.5. Deputy Chief of Staff for Logistics, Engineering, and Force Protection (AF/A4).** In coordination with AF/A10, AF/A4 will:

2.5.1. Develop policy and guidance for nuclear weapons maintenance; nuclear weapons explosive ordnance disposal; assessment of nuclear facilities and infrastructure; force protection; nuclear weapons systems; nuclear weapons-related materiel logistics; nuclear weapon accident response; and chemical, biological, radiological, and nuclear defense.

2.5.2. Serve as the authority for the management and control of all Air Force nuclear weapons-related materiel.

2.5.3. Develop policy and guidance for security protection of nuclear weapons, reactors, materials, and coding equipment.

2.5.4. Develop policy and guidance for agile combat support related to the Air Force nuclear mission.

2.5.5. Develop logistics policy and guidance in support of Prime Nuclear Airlift Forces operations.

2.5.6. Develop policy and guidance for nuclear logistics and storage antiterrorism measures.

2.5.7. Assemble information from existing reports, processes, surveys, and databases, and provide deliverables to AF/A10 to inform the Air Force's comprehensive Nuclear Mission Assessment (reference [paragraph 2.18](#)).

**2.6. Deputy Chief of Staff, Strategy, Integration and Requirements (AF/A5).** In coordination with AFGSC/A5/8 and AF/A10, AF/A5 will:

2.6.1. Coordinate nuclear requirements with all Air Force components that have Air Force nuclear mission equities.

2.6.2. Serve as the Air Force lead for applicable Joint Staff Functional Capabilities Boards.

2.6.3. Assemble information from existing reports, processes, surveys, and databases, and provide deliverables to AF/A10 to inform the Air Force's comprehensive Nuclear Mission Assessment (reference [paragraph 2.18](#)).

**2.7. Deputy Chief of Staff, Plans and Programs (AF/A8).** In coordination with AFGSC/A5/8 and AF/A10, AF/A8 will:

2.7.1. Coordinate nuclear-related programs with all Air Force components that have Air Force nuclear mission equities.

2.7.2. Assemble information from existing reports, processes, surveys, and databases, and provide deliverables to AF/A10 to inform the Air Force's comprehensive Nuclear Mission Assessment (reference [paragraph 2.18](#)).

**2.8. Director, Studies, Analyses and Assessments (AF/A9).** In coordination with AF/A10, AF/A9 will:

2.8.1. Support synchronization of DoD and Air Force nuclear capabilities and requirements analysis and nuclear force personnel and infrastructure optimization within DoD plans and analysis community activities.

2.8.2. As a member of the DoD plans and analysis community, submit for validation any analytic products involving the use or employment of Air Force nuclear weapons (e.g., multi-service force deployment documents, defense planning scenarios).

2.8.3. Support assessments of elements of the Air Force nuclear mission as part of the Air Force strategy, planning, and programming process.

2.8.4. Support validation of risk assessment models for use with the Air Force nuclear mission.

2.8.5. Support assessments of the Air Force nuclear mission through analysis of, and technical advice on, Nuclear Mission Assessment processes.

**2.9. Air Force Chief of Safety (AF/SE) and Air Force Safety Center (AFSEC) Commander.** In coordination with AF/A10, AF/SE (dual-hatted as Commander, AFSEC) will:

2.9.1. Develop and establish Air Force guidance, training, planning, programs, and safety design certification of nuclear weapon systems and components.

2.9.2. Develop and establish Air Force nuclear surety standards and policies for safety.

2.9.3. Assess nuclear weapons systems and systems requirements for safety.

2.9.4. Appoint the Chairperson to the Nuclear Weapons System Surety Group, which conducts nuclear weapons safety studies and reviews IAW DoDM 3150.02, *DoD Nuclear Weapon System Safety Program Manual*, and AFI 91-102, *Nuclear Weapon System Safety Studies, Operational Safety Reviews, and Safety Rules*.

2.9.5. Review nuclear surety and security deviations IAW AFI 91-101, *Air Force Nuclear Weapons Surety Program*, and DoDM S-5210.41 Volume 1, *Nuclear Weapon Security Manual: The DoD Nuclear Weapon Security Program (U)*.

2.9.6. Fulfill the requirements of Department of Defense Directive (DoDD) S-5210.81, (U) *U.S. Nuclear Weapons Command and Control, Safety, and Security*, related to surety of nuclear weapons and weapons systems, DoDD 3150.02, AFI 91-101, and AFI 91-102.

2.9.7. Assemble information from existing reports, processes, surveys, and databases, and provide deliverables associated with nuclear weapons safety to AF/A10 to inform the Air Force's comprehensive Nuclear Mission Assessment (reference [paragraph 2.18](#)). (T-0)

2.10. **Air Force Surgeon General (AF/SG).** In coordination with AF/A10, AF/SG will:

2.10.1. Implement AF/A10-established and certified policies to select and maintain reliable individuals to perform duties associated with nuclear weapons IAW DoDM 5210.42\_AFMAN 13-501, *Nuclear Weapons Personnel Reliability Program (PRP) Regulation*, and AFI 31-117, *Arming and Use of Force by Air Force Personnel*.

2.10.2. Establish force health protection and medical surveillance policy, coordinate with AF/SE on implementation of nuclear intrinsic radiation safety policy as part of the safety and occupational health program, and execute radiation dosimetry, as applicable, for nuclear capable units and nuclear career fields IAW DoDD 3150.02, Department of Defense Instruction (DoDI) 6055.01, *DoD Safety and Occupational Health (SOH) Program*, and DoDI 6055.05, *Occupational and Environmental Health (OEH)*, AFPD 91-1, *Nuclear Weapons and Systems Surety*, and AFI 91-108, *Air Force Nuclear Weapons Intrinsic Radiation and 91(B) Radioactive Material Safety Program*.

2.10.3. Organize, train, and equip the Air Force Radiation Assessment Team to provide radiological monitoring and analysis capability for nuclear and radiological incidents IAW DoDD 3150.08, *DoD Response to Nuclear and Radiological Incidents*, DoDI 3150.10, *DoD Response to U.S. Nuclear Weapon Incidents*, and DoDM 3150.08, *Nuclear Weapon Accident Response Procedures (NARP)*.

2.11. **Director, Air Force Test and Evaluation (AF/TE).** In coordination with AF/A10, AF/TE will:

2.11.1. Provide guidance and review of nuclear-related test and evaluation plans, execution, policies, programs, and budgets.

2.11.2. Determine the adequacy of test and evaluation resources required to support Air Force nuclear weapon system development.

2.11.3. Resolve developmental and operational test programmatic issues for Air Force nuclear weapon systems.



2.12. **Administrative Assistant to the Secretary of the Air Force (SAF/AA).** SAF/AA's Air Force Special Access Central Office (SAF/AAZ) serves as the principle advisor to the Air Force Restricted Data Management Official (SAF/AA) for the Nuclear Information Security Program IAW AFI 16-1404, *Air Force Information Security Program*.

2.13. **Assistant Secretary of the Air Force for Acquisition, Technology, and Logistics (SAF/AQ).** In coordination with AF/A10, SAF/AQ will:

2.13.1. Through multiple Air Force program executive offices, ensure the timely delivery and life cycle sustainment of Air Force nuclear mission system capabilities and equipment to the warfighter based on validated requirements and funding.

2.13.2. Unless otherwise delegated, serve as the Service Acquisition Executive with Milestone Decision Authority for Air Force nuclear programs throughout the lifecycle acquisition process.

2.13.3. Assemble information from existing reports, processes, surveys, and databases, and provide deliverables to AF/A10 to inform the Air Force's comprehensive Nuclear Mission Assessment (reference [paragraph 2.18](#)).

2.13.4. Perform nuclear digital engineering functions to review and provide analysis of big data with respect to the digital thread central repository.

2.13.5. Support Air Force cyber enterprise by developing a capability to systematically design, test, field, and sustain cyber resilient nuclear weapon systems.

2.14. **Chief, Information Dominance and Chief Information Officer (SAF/CIO A6).** In coordination with AF/A10, SAF/CIO A6 will:

2.14.1. Provide Air Force NLCC/NC3-related cyber security policy, guidance, and oversight in coordination with ACC and AFGSC.

2.14.2. Advocate for, and provide feedback on, Air Force NLCC/NC3 cybersecurity and related issues to the National Security Agency.

2.14.3. Oversee Air Force NLCC/NC3-related development, career field management, training, and education for cyber communications and information Air Force Specialty Code and occupational series in coordination with AFGSC.

2.14.4. Oversee Air Force NLCC/NC3 architecture requirements in coordination with AFGSC and Defense Information Systems Agency.

2.14.5. Ensure future Air Force NLCC/NC3 systems satisfy data strategy requirements in coordination with ACC and AFGSC.

2.14.6. Oversee the Air Force portion of the Senior Leader Command, Control, and Communications System, a principal mission area of the NLCC, in coordination with AFGSC and Air Mobility Command (AMC).

2.14.7. Assemble information from existing reports, processes, surveys, and databases, and provide deliverables to AF/A10 to inform the Air Force's comprehensive Nuclear Mission Assessment (reference [paragraph 2.18](#)).

2.15. **Inspector General of the Air Force (SAF/IG).** In coordination with AF/A10, SAF/IG will:

2.15.1. Develop formal processes to share potential systemic issues and best practices in conjunction with Defense Threat Reduction Agency and the Joint Nuclear, Homeland Defense, and Current Operations Directorate (JS/J33).

2.15.2. Provide access to existing reports, processes, and databases for the Air Force's comprehensive Nuclear Mission Assessments required by 10 USC § 8040 (reference [paragraph 2.18](#)).

2.15.3. For additional nuclear-related roles and responsibilities, reference AFI 90-201, *The Air Force Inspection System*.

**2.16. Principal Assistant to the Secretary for Space (SAF/SP).** As the HAF focal point for space, SAF/SP supports the SecAF in all matters pertaining to both the Air Force and the National Security Space Enterprise, and oversees Air Force integration with the National Security Space Enterprise, including those Space Enterprise capabilities directly supporting the Air Force nuclear mission. The directorate oversees all Air Force departmental space matters, including policies, strategies, plans, programming, and architecture assessment across the Space Enterprise. This includes survivable/endurable NC3 systems and space capabilities performing Integrated Tactical Warning and Attack Assessment of air, missile and space threats in support of the Air Force nuclear mission. In coordination with AF/A10, SAF/SP will:

2.16.1. Advance National Security Space strategies through established processes for PPBE, Joint Capabilities Integration and Development System (JCIDS), space program acquisition, and space policy development.

2.16.2. Advise Air Force and DoD leaders of redundancies and gaps to provide options and recommendations for program execution and funding adjustments, as appropriate.

**2.17. MAJCOM and Field Operating Agency (FOA) Responsibilities.**

2.17.1. All applicable MAJCOMs and FOAs will:

2.17.1.1. Enhance and reinforce partnerships on nuclear-related issues among each other to ensure the viability of the Air Force nuclear mission. (T-2)

2.17.1.2. As appropriate, integrate nuclear capabilities into appropriate concepts of operations, provide standardized nuclear mission materials for training and operational use, and establish uniform nuclear-related implementation guidance and procedures. (T-1)

2.17.1.3. Conduct operations in compliance with treaty obligations. (T-0)

2.17.1.4. Review Air Force nuclear mission guidance and consolidate nuclear force structure, readiness, sustainability, and vulnerability data for analysis and requirements reporting. MAJCOM/A10s (or equivalent) will coordinate with and report back to AF/A10 and Commander, AFGSC, as appropriate, on Air Force nuclear mission issues. (T-1)

2.17.1.5. Support AFGSC in assessing the adequacy of investments in nuclear mission capabilities. (T-2)

2.17.2. Air Force Nuclear Command Control and Communications Center (AFNC3C), Air Force Nuclear Weapons Center (AFNWC), AFGSC, AFMC, AMC, and USAFE will assemble information from existing reports, processes, surveys, and databases, and provide deliverables to AF/A10 to inform the Air Force's comprehensive Nuclear Mission Assessment as prescribed by 10 USC § 8040 (reference [paragraph 2.18](#)). (T-0)

2.17.3. **Air Combat Command (ACC).** ACC provides nuclear-capable combat airpower to warfighting commands and cyberspace capabilities to Joint warfighters. ACC will provide guidance, oversight, and staff activities to sustain an enduring position within the Air Force nuclear mission. The command is responsible for Reconnaissance In Support of Nuclear Operations aircraft, Conventional Support to Nuclear Operations aircraft, nuclear treaty assets, dual-capable fighter aircraft, and supporting United States Strategic Command (USSTRATCOM) operations plans. In coordination with AF/A10, ACC will:

2.17.3.1. Advocate for Combat Air Force-related dual-capable fighter aircraft requirements.

2.17.3.2. Support USAFE in its organize, train, and equip responsibilities for dual-capable fighter aircraft.

2.17.3.3. Train, equip, and support reconnaissance capabilities for nuclear operations, NC3, and other strategic deterrence missions.

2.17.3.4. Integrate AFGSC forces into Combat Air Force operations, training, and exercises in support of combatant command (CCMD) requirements for Global Strike and Air and Space Expeditionary forces.

2.17.3.5. Develop concepts and strategies to support AFGSC nuclear forces through force packaging and mutual support.

2.17.3.6. In coordination with USSTRATCOM, integrate nuclear weapon operations (from employment to accidents and incidents) into operational planning scenarios.

2.17.3.7. Conduct the Nuclear Weapon System Evaluation Program in coordination with AFGSC.

2.17.3.8. Assist AFGSC in defining, assessing, and refining MAJCOM nuclear requirements to address capability gaps and shortfalls, defining materiel solutions, and coordinating on operational topics, strategy development, and PPBE.

2.17.3.9. Conduct and report on lifecycle planning, resource management, sustainment, maintenance status, and requirements for assigned NC3-related systems.

2.17.3.10. Liaise with the AFNC3C to enable two-way cooperation on operational topics (e.g., dual-capable fighter aircraft), strategy development, and planning, programming, and budgeting.

2.17.3.11. Serve as a member on the Air Force NLCC/NC3 Oversight Council, NLCC/NC3 Board, and NLCC/NC3 Group.

2.17.3.12. Incorporate NC3 concepts, nuclear strike missions, integrated (conventional and nuclear) operations concepts, and nuclear weapons employment concepts into advanced weapons and tactics training at USAF Weapons School and Red Flag exercises.

2.17.3.13. Provide operational test support (via 53d Wing, Eglin Air Force Base) to AFGSC for nuclear bombers and associated AFGSC lead command-assigned nuclear and conventional weapon systems.

2.17.3.14. Serve as a member of the Air Force Nuclear Oversight Council (AFNOC).

**2.17.4. Air Education and Training Command (AETC).** AETC is the single point of contact for nuclear force development as chartered by the SecAF and CSAF. AETC is responsible for all training and education as directed by Commander, AFGSC across the Air Force nuclear mission. In coordination with AF/A10, AETC will:

2.17.4.1. Develop and sustain robust and realistic nuclear training and education programs. Coordinate with AFGSC to annually review and update existing training and education programs.

2.17.4.2. Emphasize deterrence principles and instill a nuclear culture – the core values and behaviors resulting from a collective commitment by leaders and individuals to emphasize the Service’s responsibilities to provide nuclear capabilities to CCDRs – through education and training curricula at all levels of Air Force developmental education.

2.17.4.3. In conjunction with MAJCOMs, develop education and training measures of success to assess readiness and proficiency of Airmen to conduct nuclear operations.

2.17.4.4. Assist AFGSC in defining, assessing, and refining MAJCOM nuclear education and training requirements to address capability gaps and shortfalls, defining materiel solutions, and coordinating on operational topics, strategy development, and PPBE.

2.17.4.5. Through the LeMay Center, serve as the lead agent for nuclear doctrine and for the collection, tracking, and dissemination of nuclear lessons learned and issues resolution.

2.17.4.6. Through Air University:

2.17.4.6.1. The Air Force Global Strike chair serves as the central point of contact for coordination on deterrence education and research within Air University and with external Air Force agencies.

2.17.4.6.2. Develop and maintain a central, searchable information repository to sustain continuous awareness of contemporary deterrence research. Include research products from Air Force faculty and students and other appropriate Air Force science, technology, engineering, and math sources. Include relevant deterrence and assurance research developed by academia and non-governmental organizations.

2.17.4.6.3. Develop and distribute deterrence research results to the wider Air Force community, and engage with appropriate U.S. Government, academic, and non-governmental organizations.

2.17.4.7. Serve as a member on the Air Force NLCC/NC3 Council, NLCC/NC3 Board, and NLCC/NC3 Group.

2.17.4.8. Serve as a member of the AFNOC.

2.17.4.9. Provide input to appropriate MAJCOMs on plans for professional development, career field management training, and education of NC3 practitioners.

2.17.4.10. Brief Air Force nuclear mission senior leaders on all nuclear deterrence education, training, and research initiatives across the Air Force.

**2.17.5. Air Force Global Strike Command (AFGSC).** As a component MAJCOM of USSTRATCOM, AFGSC provides combat ready forces for deterrence and global strike operations on behalf of the President of the U.S. and CCDRs. Per AFPD 10-9, *Lead Command Designation and Responsibilities for Weapon Systems*, AFGSC is lead command for intercontinental ballistic missile systems (Minuteman III and Ground Based Strategic Deterrent), conventional B-1 bombers, B-2/B-52 bombers with nuclear and conventional missions, B-21 development and fielding, E-4B (National Airborne Operations Center) aircraft, UH-1N helicopters with escort and emergency response missions, gravity and precision guided nuclear weapons, nuclear cruise missiles, Mobile Consolidated Command Center, Air Force NC3 weapon system, and supporting squadrons. AFGSC exercises lead command responsibilities of all Air Force NLCC (except Senior Leader Command, Control, and Communications System) through the AFNC3C. AFGSC is the designated lead for Air Force NC3. Specifically, AFGSC will:

2.17.5.1. Organize, train, and equip forces to conduct strategic deterrence and nuclear command and control (NC2) operations.

2.17.5.2. Provide stewardship of nuclear weapons across the Air Force nuclear mission.

2.17.5.2.1. Retain custody of, and provide security for, nuclear weapons within storage areas, on alert, and in transit between storage and alert or other flightline locations (e.g., launch facilities and aircraft) at Continental U.S. installations.

2.17.5.2.2. Transfer custody for nuclear weapons to authorized Department of Energy personnel IAW established procedures and provide security support while transiting the installation.

2.17.5.2.3. Conduct the Nuclear Weapon Stockpile Evaluation Program for intercontinental ballistic missile forces and nuclear-capable bomber forces.

2.17.5.2.4. Provide for the robust, reliable, flexible, and survivable technical operation and maintenance of operational nuclear weapons and nuclear weapons systems under its cognizance.

2.17.5.3. Serve as the Air Force lead for the development of employment concepts; tactics, techniques, and procedures; and integration of nuclear air forces with combat and mobility air forces.

2.17.5.4. Through the AFNC3 Center and in coordination with AFNWC as the Air Force Nuclear Material Management lead providing direct support to AFGSC, serve as the Air Force lead for Air Force NC3. For specific responsibilities, reference paragraph 2.18.8.

2.17.5.5. Review and endorse nuclear weapons security policy deviations to Deputy Chief of Staff for Logistics, Engineering and Force Protection Security Forces Directorate (AF/A4S), including the annual nuclear weapons security deviation report IAW DoDM S-5210.41 Volume 2\_AFMAN 31-108, *Nuclear Weapon Security Manual: General Nuclear Weapon Security Procedures*.

2.17.5.6. Implement policies related to, provide command and control for, and conduct oversight of Continental U.S. nuclear accident/incident response by:

2.17.5.6.1. Developing guidance to establish tactics, techniques, and procedures for accident/ incident response and associated plans based on technical acumen and authority IAW HAF, CCMD, and national level policy, guidance, and directives.

2.17.5.6.2. Developing policies associated with safety, security, materiel management, and accident/incident response for nuclear weapons and nuclear weapons systems.

2.17.5.6.3. Formally coordinating with Department of the Navy, Department of Justice, Department of Energy, and other U.S. Government agencies during nuclear weapons accident/ incident policy development.

2.17.5.6.4. Organizing, resourcing, staffing, training, equipping, and exercising a Response Task Force to respond to a radiological accident or incident IAW DoDM 3150.08.

2.17.5.6.5. Incorporating external commands and organizations, with special capabilities useful to properly mitigate the effects of an accident/incident, into appropriate response plans.

2.17.5.7. Conduct command and control activities supporting security of operational nuclear weapons.

2.17.5.8. Conduct cybersecurity oversight of Air Force NC3 systems IAW SAF/CIO A6 cybersecurity policy and guidance. Responsibilities include cybersecurity guidance, training, and support to Air Force organizations processing, transmitting, or storing associated NC3 systems IAW DoDI 8500.01, *Cybersecurity*, and DoD 8570.01-M, *Information Assurance Workforce Improvement Program*.

2.17.5.9. Serve as the Electromagnetic Pulse Testing and Hardness Maintenance/Hardness Surveillance oversight authority with responsibility to advocate for test resources and test planning and execution.

2.17.5.10. Identify, define, and refine nuclear gaps and requirements and provide solution advocacy through JCIDS, modification management, and PPBE processes.

2.17.5.11. Lead capability collaboration teams to support science and technology processes.

2.17.5.12. In coordination with SAF/IG and owning MAJCOMs/agencies, develop an inspection/ assessment framework to ensure the inspection, assessment, oversight, and validation of the reliability of systems within the NC3 weapon system.

2.17.5.13. Other responsibilities include:

2.17.5.13.1. Commander, AFGSC chairs the AFNOC.

2.17.5.13.2. Assess and report on readiness of nuclear forces.

2.17.5.13.3. Ensure the adequacy of Air Force nuclear exercise programs.

2.17.5.13.4. Coordinate with SAF/IG, Air Force Inspection Agency, and supporting MAJCOMs to standardize MAJCOM nuclear inspection programs.

2.17.5.13.5. Provide input to the SecAF and CSAF on the adequacy of supporting MAJCOMs' resources dedicated to support and execute the nuclear mission.

2.17.5.13.6. In coordination with MAJCOMs having Air Force nuclear mission equities, develop partnerships and processes to ensure standardization and use of best practices across nuclear inspections, exercises, operations, and support mission subsets.

2.17.5.13.7. Maintain a Nuclear Chief Scientist Group to focus the science and technology community on nuclear mission requirements; communicate Commander, AFGSC intent to organizations and individuals with equities in the Air Force nuclear mission; and advise Commander, AFGSC on science and technology issues.

**2.17.6. Air Force Installation and Mission Support Center (AFIMSC).** As a FOA aligned under AFMC, the center consolidates the delivery of installation and mission support capabilities and provides globally integrated management, resourcing and combat support operations for Air Force programs. AFIMSC will:

2.17.6.1. Provide enterprise-wide investment recommendations to the Air Force Corporate Structure, including civil engineering, base infrastructure supporting NC2/NC3 with the intent to prioritize investments of unique nuclear systems, logistics readiness, security forces, and transportation relevant to the Air Force nuclear mission.

2.17.6.2. When requested by the AFMC voting member, appoint a qualified individual to serve as a technical advisor to the Nuclear Weapons System Surety Group.

**2.17.7. Air Force Materiel Command (AFMC).** AFMC provides effective nuclear materiel management (NMM) support to the warfighter by managing human capital, organizations, processes, and procedures used to conduct, execute, and support nuclear deterrence. Included are nuclear weapons infrastructure and lifecycle activities, delivery platforms and supporting systems, and intellectual and technical competencies to ensure robust, reliable, flexible, and survivable Air Force nuclear systems. NMM responsibilities cut across all AFMC and headquarters organizations and must be focused on providing agile cradle-to-grave support to the warfighter. With the exception of

AFNWC, all AFMC centers are supporting centers. In coordination with AF/A10, AFMC will:

- 2.17.7.1. Develop and adhere to nuclear policy and guidance and strengthens relationships with organizations contributing to nuclear deterrence.
    - 2.17.7.1.1. Organize, train, and equip to execute NMM functions necessary to acquire, modernize, and sustain nuclear systems and associated support and test equipment.
  - 2.17.7.2. Coordinate Interagency efforts to sustain and extend the life of nuclear warheads and bombs for the airborne and ground-based legs of the triad.
  - 2.17.7.3. Provide support to AFNWC to effectively execute its NMM and direct support responsibilities. Provide necessary information and assistance from AFMC centers to AFNWC regarding all aspects of NMM that are external to, or not the direct responsibility of, AFNWC. These efforts may involve systems or programs that have both nuclear and conventional missions and are not directly assigned to AFNWC, Air Force Program Executive Officer for Strategic Systems (AFPEO/SS) or Air Force Program Executive Officer for Nuclear Command, Control and Communications (AFPEO/NC3).
  - 2.17.7.4. Assist AFGSC in defining, assessing, and refining MAJCOM nuclear requirements to address capability gaps and shortfalls, defining materiel solutions, and coordinating on operational topics, strategy development, and PPBE.
  - 2.17.7.5. Conduct and report on lifecycle planning, resource management, sustainment, maintenance status, and requirements for assigned systems associated with NC3.
  - 2.17.7.6. Provide input to AETC, AFGSC, and ACC (specifically, the Air Force Weapons School) on plans for professional development, career field management training, and education of NC3 practitioners.
  - 2.17.7.7. Develop the Air Force plan for electromagnetic pulse testing across all conventional and nuclear systems for all MAJCOMs and provide to AFGSC the MAJCOM-validated Air Force-wide electromagnetic pulse test plan and requirements.
  - 2.17.7.8. Serve as a member on the Air Force NLCC/NC3 Council, NLCC/NC3 Board, and NLCC/NC3 Group.
  - 2.17.7.9. Serve as a member of the AFNOC.
- 2.17.8. **Air Force Nuclear Command Control and Communications Center (AFNC3C).** AFNC3C is the AFGSC-supported center responsible for lead command management of and centralized organize, train, and equip functions of the Air Force NC3 weapon system (AN/USQ-225). The AFNC3C delivers strategic vision, dynamic capabilities, and sustainment of the AN/USQ-225 and serves as the focal point for all Air Force-owned national-level NC3 systems that ensure national leaders have survivable, secure, and resilient NC3 capabilities to execute NC2. Reference AFI 13-550, *Air Force Nuclear Command, Control, and Communications*, for additional AFNC3C responsibilities. AFNC3C will:



- 2.17.8.1. Coordinate with program offices, other Services, CCMDs, and agencies that have Air Force NLCC/NC3-related systems.
- 2.17.8.2. Identify warfighting Air Force NC3 requirements for presentation of forces to CCMDs in assigned mission areas.
- 2.17.8.3. Serve as the Air Force Nuclear Enterprise Configuration Manager for Air Force NLCC/ NC3 capabilities supporting CCMDs, HAF, MAJCOMs, and Defense Information Systems Agency's Joint System Engineering and Integration Office (DISA/JSEIO), and ensure Air Force NLCC/NC3 capabilities satisfy DoD strategic goals.
- 2.17.8.4. Collaborate with DoD, Joint Staff, CCMDs, HAF, MAJCOMs, DISA/JSEIO, and Sister Services to identify, document, and assist in resolving operational gaps that affect Air Force NC3 systems.
- 2.17.8.5. Manage internal and monitor external Air Force NC3 weapon system programs, projects, and life cycle sustainment (e.g., milestones, action items, and program risk).
- 2.17.8.6. Coordinate and execute Air Force NC3 weapon system resource management functions.
- 2.17.8.7. Consolidate and prioritize NC3 unfunded requirements for processing by the Air Force Corporate Structure and the AFMC Centralized Asset Management Structure.
- 2.17.8.8. Support AFGSC in assessing the adequacy of investments in Air Force NC3 weapon system capabilities.
- 2.17.8.9. Coordinate with AETC and career field functional managers to develop and sustain Air Force NC3 supplemental training, advocate for funding, and ensure training programs satisfy Air Force operational requirements.
- 2.17.8.10. Provide oversight, strategic direction, and advocacy for Air Force NLCC/NC3 through the Air Force NLCC/NC3 Council, NLCC/NC3 Board, and NLCC/NC3 Group.
- 2.17.8.11. Provide logistics support for Air Force NC3 maintenance and sustainment, supply chain management, airfield security, and weapon systems infrastructure.
- 2.17.8.12. Develop Air Force NC3 requirements for bomber recapitalization and staff them through the JCIDS process.
- 2.17.8.13. Liaise with AFGSC on matters involving identification, evaluation, rapid development, acquisition, fielding, and sustainment of Air Force NC3 special access required advanced technologies across all AFGSC capability areas.
- 2.17.8.14. Collaborate with AFGSC to manage Air Force NC3 technology transition efforts, including flagship capability concepts; advanced technology demonstrations; Joint capability technology demonstrations; and research, development, test, and evaluation efforts.

**2.17.9. Air Force Nuclear Weapons Center (AFNWC).** AFNWC is the AFMC supported center responsible for synchronizing NMM across AFMC and the Air Force. AFNWC is delegated direct support authority in support of AFGSC regarding all areas of NMM. Commander, AFNWC derives authority to organize, train, and equip from Commander, AFMC and is dual-hatted as AFPEO/SS. The AFNWC NC3 Integration Director is dual-hatted as AFPEO/NC3 to provide integration and portfolio management across the Air Force NC3 weapon system. Acquisition authorities for AFPEO/SS and AFPEO/NC3 flow from SAF/AQ. In coordination with AF/A10 and AFGSC, AFNWC will:

2.17.9.1. Synchronize all NMM activities across AFMC and, as designated by Commander, AFMC via direct support authority, serve as the command's supported center and principal representative to AFGSC for all NMM-related matters with primary responsibility, authority, and accountability to provide agile support to the warfighter. This also includes the responsibility to serve as AFMC's primary advocate for NMM-related resource prioritization and to communicate directly with AFGSC at all levels regarding such matters.

2.17.9.2. Serve as the primary advocate for all NMM requirements across the Air Force and collaborate with HAF, MAJCOMs, and AFMC centers to identify strategy, planning, and programming process and sustainment requirements relevant to NMM, including NMM requirements for dual and multi-use platforms and systems.

2.17.9.3. Communicate and collaborate with AFGSC at all levels to ensure force provider NMM requirements are satisfied in a timely manner.

2.17.9.4. Collaborate with program offices, North Atlantic Treaty Organization (NATO) allies, USAFE, and AFSEC in the oversight and execution of nuclear safety, security, and compatibility design guidance for nuclear weapon/weapon systems and engineering consulting to system program offices and product support centers.

2.17.9.5. Support Air Force program executive officers and program managers by providing integration authority related to air-delivered capabilities and the NC3 weapon system. Authority and responsibility pertain to weapon system architecture, configuration management, integration, test, verification, and certification.

2.17.9.5.1. To assist in focusing on the nuclear program elements associated with air-delivered capabilities and key organizations associated with the NC3 weapon system, embed nuclear experts in program management, product support, and NC3 at applicable locations.

2.17.9.6. Develop and execute the Air Force electromagnetic pulse test program IAW AFGSC direction.

2.17.9.6.1. Partner with System Program Offices and MAJCOM representatives to generate a MAJCOM-validated electromagnetic pulse test priority list to include aircraft, line replaceable units, facilities, ground support equipment, and NC3 systems.

2.17.9.6.2. Perform program management functions for the Air Force electromagnetic pulse test program in order to coordinate asset and test facility availability, perform data review and analysis, identify problems, suggest remediation strategies, perform risk analysis, and provide oversight and insight.

2.17.9.7. Provide direct support to AFGSC by synchronizing modernization and procurement of Air Force NLCC/NC3 systems using AFGSC delineation and prioritization of warfighter needs.

2.17.9.8. Share portfolio health assessments on nuclear programs with AFGSC and AF/A10.

2.17.9.9. Synchronize with other MAJCOMs for Air Force NLCC/NC3-related activities and programs under their purview.

2.17.9.10. When requested by the AFMC voting member, appoint a qualified individual to serve as a technical advisor to the Nuclear Weapons System Surety Group.

2.17.9.11. Serve as an advisory member of the Air Force NLCC/NC3 Council, NLCC/NC3 Board, and NLCC/NC3 Group.

**2.17.10. Air Force Personnel Center (AFPC).** As a FOA of AF/A1, AFPC supports the development of all human capital policies for the Air Force nuclear mission and executes those policies at the operational and tactical level. AFPC leads and manages all personnel activities and programs for Regular Air Force and federal civilian employees, including, but not limited to, officer and enlisted accessions, military assignments, civilian staffing, classification, professional development, civilian benefits and entitlements, military separations and retirements, awards and recognition, evaluations, personnel data retrieval and analysis, officer and enlisted promotions, and procedural development and execution of the Personnel Reliability Assurance Program for nuclear weapons and Personnel Reliability Assurance Program Administrative Qualification Central Cell operations. AFPC will:

2.17.10.1. Monitor manning levels across all nuclear career fields, ensuring that nuclear units are manned per SecAF/CSAF direction, to include development and modification of enlisted manning points and personnel processing codes. (T-2)

2.17.10.2. Coordinate with Air Staff to achieve and maintain sustainable accession levels for officer and enlisted nuclear career fields. (T-2)

2.17.10.3. Review and provide program advice regarding key nuclear billets IAW AFI 13-504, *Management of Nuclear Billets*. (T-2)

2.17.10.4. Evaluate and assess Air Force nuclear mission civilian billet lists. (T-2)

2.17.10.5. Provide Personnel Reliability Assurance Program administrative qualification reviews and recommendations to gaining certifying officials. (T-2)

2.17.10.6. Provide expert procedural and operational guidance for management of the Personnel Reliability Assurance Program for nuclear weapons. (T-2)

- 2.17.10.7. Provide ad hoc and recurring personnel data retrieval and analysis services (including metrics initiatives) consistent with customer needs and other requirements. (T-2)
- 2.17.10.8. Manage the Developmental Education Designation Board process for officers and federal civilians. The Senior Advisor for Nuclear Integration, Air Force Personnel Center (AFPC/DP3AM), will serve as an adjunct member of, and advisor to, the Developmental Education Designation Board for nuclear-related fellowships and academic programs. (T-2)
- 2.17.10.9. Provide support to civilian, officer, and enlisted career field managers for human capital initiatives and restructure efforts pertaining to the Air Force nuclear mission. (T-2)
- 2.17.10.10. Provide civilian classification and staffing action support for civilian positions within the Air Force nuclear mission. (T-2)
- 2.17.10.11. Support civilian, officer, and enlisted development teams meetings to fulfill career field management objectives. (T-2)
- 2.17.10.12. Adjust officer and enlisted classification directories in coordination with career field managers. (T-2)
- 2.17.10.13. Monitor non-rated Line of the Air Force officer classification model results, ensuring Air Force nuclear mission career fields are appropriately represented in the model outcomes based on Air Force needs, cadet quality measures, commission sources, and cadet preferences. (T-2)
- 2.17.10.14. As a key mission partner, attend and support all Air Force nuclear mission deep dives for civilian, officer, and enlisted nuclear career fields. (T-2)
- 2.17.10.15. Director, Air Force Personnel Center Nuclear Integration (AFPC/CDN) will serve as a member of the Deterrence Education Task Force. (T-2)
- 2.17.11. **Air Force Research Laboratory (AFRL).** AFRL conducts research and development activities addressing technology and capability gaps across the Air Force. AFRL will:
- 2.17.11.1. Conduct research and development of nuclear technology and capability gaps, with requirements provided by ACC, AFGSC, AFMC, AFNWC, AFSPC, and AMC.
  - 2.17.11.2. Conduct research and development of future capabilities and enabling technology, in coordination with ACC, AFGSC, AFMC, AFNWC, AFSPC, and AMC.
- 2.17.12. **Air Force Space Command (AFSPC).** AFSPC provides resilient, defensible, and affordable space capabilities for the Air Force, Joint Force, and the Nation. Space capabilities are an integral part of all military operations, providing strategic, operational, and tactical advantages. AFSPC effectively integrates space across the spectrum of operations, from peacetime through a fully-contested environment, across cyber, air, land, and maritime operations. This integration enables precise fires, real-time critical decision-making, effective command and control, global operational reach, and decisive

power projection. AFSPC performs this mission within a broad and complex space enterprise encompassing DoD, intelligence community, civil (e.g., National Aeronautics and Space Administration, National Oceanic and Atmospheric Administration), and commercial space partners. Space capabilities vital to the nuclear mission include Integrated Tactical Warning and Attack Assessment and satellite communications. In coordination with AF/A10 and AFGSC, AFSPC will:

- 2.17.12.1. Advocate for national requirements inherent in ground and space-based missile warning systems including, but not limited to, Integrated Tactical Warning and Attack Assessment systems, military satellite communications systems, and supporting infrastructure (e.g., survivable and endurable components and supporting communication links).
  - 2.17.12.2. Advocate for AFSPC resources assigned to the nuclear mission and coordinate with AFGSC to prioritize nuclear mission capabilities and assess risk to the nuclear portfolio.
  - 2.17.12.3. Provide direct support to Commander, AFGSC, as needed, and assist in defining and refining NC3 requirements and coordinating on operational topics, strategy development, and PPBE.
  - 2.17.12.4. Serve as a member on the Air Force NLCC/NC3 Council, NLCC/NC3 Board, and NLCC/NC3 Group.
  - 2.17.12.5. Provide input on plans for professional development, career field management training, and education of NC3 practitioners.
  - 2.17.12.6. Immediately notify Commander, AFGSC via the operational reporting process of any degrade(s) of any space or terrestrial system (e.g., Integrated Tactical Warning and Attack Assessment, nuclear detonation detection package) that negatively impacts the Air Force nuclear mission.
  - 2.17.12.7. Conduct and report on lifecycle planning, resource management, sustainment, maintenance status, and requirements for assigned NC3-related systems.
  - 2.17.12.8. Serve as a member of the AFNOC.
- 2.17.13. **Air Force Technical Applications Center (AFTAC).** AFTAC performs research and development of proliferation detection technologies to enhance treaty verification and encourage nonproliferation. AFTAC will:
- 2.17.13.1. Perform nuclear treaty monitoring, operate the U.S. Atomic Energy Detection System, and use the U.S. Nuclear Detonation Detection System to inform National Command Authorities of nuclear events.
  - 2.17.13.2. Provide National Command Authorities with quality technical measurements and analysis to monitor treaty compliance.
  - 2.17.13.3. Directly enable and inform Integrated Tactical Warning and Attack Assessment, Nuclear Force Management, Space Control missions in support of NC3 Enterprise, and Space Situational Awareness through nuclear surveillance efforts.

2.17.13.4. Provide key support under DoDD S-2060.04, *DoD Support to the National Technical Nuclear Forensics (NTNF) Program (U)*, for nuclear forensics in the event of a nuclear terrorism or asymmetric attack involving nuclear materials.

**2.17.14. Air Mobility Command (AMC).** AMC provides worldwide cargo and passenger delivery, air refueling, and aeromedical evacuation of nuclear forces. AMC organizes, trains, and equips air refueling and airlift forces for rapid air mobility in support of the nuclear mission. In coordination with AF/A10, AMC will:

2.17.14.1. Provide air refueling, airlift, NC3 (tanker relay), and Prime Nuclear Airlift Force capabilities in support of nuclear operations across the range of military operations.

2.17.14.2. Advocate for AMC resources assigned to the nuclear mission and coordinate with AFGSC to prioritize nuclear capabilities and assess risk to the nuclear portfolio.

2.17.14.3. Provide direct support to Commander, AFGSC, as needed, and assist in defining and refining NC3 requirements and coordinating on operational topics, strategy development, and PPBE.

2.17.14.4. Serve as a member on the Air Force NLCC/NC3 Council, NLCC/NC3 Board, and NLCC/NC3 Group.

2.17.14.5. Serve as the Air Force lead command for Senior Leader Command, Control, and Communications System-Airborne, a subset of the Senior Leader Command, Control, and Communications System consisting primarily of airlift aircraft, and coordinate with AFGSC on changes to NC3-related systems.

2.17.14.6. Advocate for Senior Leader Command, Control, and Communications System-Airborne requirements having a direct association to the NC3 mission through the Air Force NLCC/NC3 Board and the NC3 Oversight Council.

2.17.14.7. Conduct and report on lifecycle planning, resource management, sustainment, maintenance status, and requirements for assigned NC3-related systems.

2.17.14.8. Serve as a member of the AFNOC.

**2.17.15. Air Reserve Component.**

2.17.15.1. Air National Guard (ANG). As the Air Force component of the National Guard, ANG provides Title 10 combat-ready forces for nuclear operations and associated logistical and mission support. ANG will:

2.17.15.1.1. Provide input on matters of policy and procedures affecting the ANG federal mission in support of the Air Force nuclear mission.

2.17.15.1.2. Through training and mobilization readiness, prepare forces to conduct assigned nuclear mission responsibilities while in Title 32 status.

2.17.15.1.3. Serve as a member of the AFNOC.

- 2.17.15.2. Air Force Reserve Command (AFRC). AFRC will organize, train, and equip assigned combat-ready Reserve forces to conduct strategic deterrence; command and control; intelligence, surveillance, and reconnaissance; space; cyberspace; rapid global mobility; and agile combat support operations in support of CCDR requirements.
- 2.17.15.2.1. Assist AFGSC in defining, assessing, and refining MAJCOM nuclear requirements to address capability gaps and shortfalls, defining materiel solutions, and coordinating on operational topics, strategy development, and PPBE.
  - 2.17.15.2.2. Support AMC as needed and assist in defining, assessing, and refining air refueling and airlift capabilities in support of nuclear operations.
  - 2.17.15.2.3. Serve as a member on the Air Force NLCC/NC3 Council, NLCC/NC3 Board, and NLCC/NC3 Group.
  - 2.17.15.2.4. Serve as a member of the AFNOC.
- 2.17.16. **National Guard Bureau (NGB).** NGB will provide a representative to serve as a voting member on the Air Force NLCC/NC3 Council, NLCC/NC3 Board, and NLCC/NC3 Group.
- 2.17.17. **Pacific Air Forces (PACAF).** PACAF delivers rapid and precise air, space, and cyberspace capabilities to protect and defend the U.S., its territories, and its allies and partners. PACAF is responsible to support robust, reliable, flexible, and survivable nuclear operations through international cooperative agreements founded in U.S. national security requirements. PACAF will:
- 2.17.17.1. Assist AFGSC in defining, assessing, and refining MAJCOM nuclear requirements to address capability gaps and shortfalls, defining materiel solutions, and coordinating on operational topics, strategy development, and PPBE.
  - 2.17.17.2. Serve as a member on the Air Force NLCC/NC3 Council, NLCC/NC3 Board, and NLCC/NC3 Group.
  - 2.17.17.3. Serve as a member of the AFNOC.
- 2.17.18. **United States Air Forces in Europe (USAFE).** As a component MAJCOM of United States European Command (USEUCOM), USAFE is, in its organize, train, and equip role, responsible to the SecAF and CSAF for the presentation of forces (e.g., dual-capable fighter aircraft forces, NC3 weapon system components, gravity nuclear weapons, and supporting fighter operations squadrons) to NATO in coordination with USEUCOM. Presentation of these forces is IAW AFPD 10-4, *Operations Planning: Air & Space Expeditionary Force (AEF)*. Commander, USAFE serves as the Joint Force Commander to NATO. In coordination with AF/A10, USAFE will:
- 2.17.18.1. Provide compatible NC2 capabilities and NC3 systems in the USEUCOM theater for the Air Force nuclear mission in coordination with AFGSC and ACC.
  - 2.17.18.2. Conduct weapons storage and security system maintenance functions.

- 2.17.18.3. Fulfill weapons storage and security system sustainment mission requirements in the USEUCOM area of responsibility and integrate infrastructure, communications, and security systems support.
- 2.17.18.4. Provide command and control for nuclear accident/incident response in the area of responsibility through the Response Task Force.
- 2.17.18.5. Enable robust, reliable, flexible, and survivable nuclear operations in support of U.S. national security requirements and international agreements.
- 2.17.18.6. Coordinate with ACC, AFSPC, and AFGSC in their roles as lead commands for weapon systems affecting the Air Force nuclear mission throughout the strategy, planning, and programming process.
- 2.17.18.7. Assist AFGSC in defining, assessing, and refining MAJCOM nuclear requirements to address capability gaps and shortfalls, defining materiel solutions, and coordinating on operational topics, strategy development, and PPBE.
- 2.17.18.8. Serve as a member on the Air Force NLCC/NC3 Council, NLCC/NC3 Board, and NLCC/NC3 Group.
- 2.17.18.9. Conduct and report on lifecycle planning, resource management, sustainment, maintenance status, and requirements for assigned NC3-related systems.
- 2.17.18.10. Serve as a member of the AFNOC.
- 2.18. Nuclear Mission Assessment.** Fulfilling the requirement of 10 USC § 8040, the Nuclear Mission Assessment is an evaluation of the Air Force nuclear mission that enables a thorough understanding of current capabilities and forecasts the Service's future ability to execute the nuclear mission and correct or mitigate actions that address capability gaps. The Nuclear Mission Assessment effectively and consistently evaluates nuclear mission capability trends, identifies current and projected abilities of MAJCOMs to execute their portion of the Air Force nuclear mission, and provides advocacy on issues as appropriate.
- 2.18.1. Nuclear Mission Assessment Responsibilities. Tasked HAF and MAJCOM organizations will:
- 2.18.1.1. Develop reports using existing analysis, metrics, established reporting systems, and other information to assess current and projected ability to execute the nuclear mission, and provide deliverables to AF/A10 for periodic, comprehensive Nuclear Mission Assessments of all aspects of the Air Force's nuclear deterrence mission IAW 10 USC § 8040.
- 2.18.1.1.1. At a minimum, identify problems, gaps, and shortfalls associated with Human Capital, Readiness, Sustainment, Modernization, and Effectiveness; corrective actions; and projected "get well" dates in these reports.
- 2.18.1.2. Submit reports from the organization's deputy commander (or equivalent) to AF/A10 on a semiannual basis (before the end of the second quarter and fourth quarter each fiscal year).



2.18.1.3. Provide feedback regarding the end-to-end assessments, reporting, and corrective actions to facilitate iterative and enterprise-wide process improvement.

RICHARD M. CLARK, Lt Gen, USAF  
DCS, Strategic Deterrence & Nuclear Integration

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

AFPD 13-5, *Air Force Nuclear Mission*, 17 July 2018

AFMAN 33-363, *Management of Records*, 1 March 2008

AFI 33-360, *Publications and Forms Management*, 1 December 2015

10 USC § 8040, *Oversight of Nuclear Deterrence Mission*, 15 September 2016

10 USC § 179, *Nuclear Weapons Council*, 3 January 2012

*United States Air Force (USAF) Strategic Master Plan*, May 2015

DoDM 5210.42, *Nuclear Weapons Personnel Reliability*, 13 January 2015

*DoD Foreign Clearance Guide* (current edition)

*DoD Foreign Clearance Guide, Special Weapons Overflight Guide Supplement*, 2 May 2017

AFMAN 13-526, *Nuclear Airlift Operations*, 3 October 2018

AFI 14-111, *Intelligence Support to the Acquisition Life-Cycle*, 18 May 2012

DoDM 3150.02, *DoD Nuclear Weapon System Safety Program Manual*, 31 January 2014  
(Incorporating Change 2, 16 November 2017)

AFI 91-102, *Nuclear Weapon System Safety Studies, Operational Safety Reviews, and Safety Rules*, 12 April 2017

AFI 91-101, *Air Force Nuclear Weapons Surety Program*, 15 August 2014

DoDM S-5210.41 Volume 1, *Nuclear Weapon Security Manual: The DoD Nuclear Weapon Security Program (U)*, 25 October 2016

DoDD S-5210.81, *(U) U.S. Nuclear Weapons Command and Control, Safety, and Security*, 24 April 2017

DoDM 5210.42\_AFMAN 13-501, *Nuclear Weapons Personnel Reliability Program (PRP) Regulation*, 9 March 2017

AFI 31-117, *Arming and Use of Force by Air Force Personnel*, 2 February 2016

AFPD 91-1, *Nuclear Weapons and Systems Surety*, 30 November 2016

AFI 91-108, *Air Force Nuclear Weapons Intrinsic Radiation and 91(B) Radioactive Material Safety Program*, 12 February 2015

DoDI 6055.01, *DoD Safety and Occupational Health (SOH) Program*, 14 October 2014

DoDI 6055.05, *Occupational and Environmental Health (OEH)*, 11 November 2008

DoDD 3150.08, *DoD Response to Nuclear and Radiological Incidents*, 20 January 2010

AFI 90-201, *The Air Force Inspection System*, 21 April 2015

DoDI 3150.10, *DoD Response to U.S. Nuclear Weapon Incidents*, 2 July 2010

DoDM 3150.08, *Nuclear Weapon Accident Response Procedures (NARP)*, 22 August 2013

AFI 16-1404, *Air Force Information Security Program*, 29 May 2015

AFPD 10-9, *Lead Command Designation and Responsibilities for Weapons Systems*, 8 March 2007

DoDM S-5210.41 Volume 2\_AFMAN 31-108, *Nuclear Weapon Security Manual: General Nuclear Weapon Security Procedures*, 11 August 2016

DoDI 8500.01, *Cybersecurity*, 14 March 2014

DoD 8570.01-M, *Information Assurance Workforce Improvement Program*, 10 November 2015

AFI 13-550, *Air Force Nuclear Command, Control, and Communications (NC3)*, 2 October 2014

AFI 13-504, *Management of Nuclear Billets*, 17 August 2018

DoDD S-2060.04, *DoD Support to the National Technical Nuclear Forensics (NTNF) Program (U)*, 1 April 2009 (Incorporating Change 1, 28 January 2013)

AFPD 10-4, *Operations Planning: Air & Space Expeditionary Force (AEF)*, 30 April 2009

AFPD 10-26, *Countering Weapons of Mass Destruction Enterprise*, 17 June 2015

AFPD 16-6, *International Arms Control and Nonproliferation Agreements, and the DoD Foreign Clearance Program*, 27 March 2018

AFI 36-2640, *Executing Total Force Development*, 30 August 2018

AFMAN 36-2647, *Institutional Competency Development and Management*, 25 March 2014

### ***Prescribed Forms***

None

### ***Adopted Forms***

AF Form 847, *Recommendation for Changes of Publication*, 22 September 2009

### ***Abbreviations and Acronyms***

**ACC**—Air Combat Command

**AETC**—Air Education and Training Command

**AFGSC**—Air Force Global Strike Command

**AFI**—Air Force Instruction

**AFIMSC**—Air Force Installation and Mission Support Center

**AFMAN**—Air Force Manual

**AFMC**—Air Force Materiel Command

**AFNC3C**—Air Force Nuclear Command Control and Communications Center

**AFNWC**—Air Force Nuclear Weapons Center

**AFPC**—Air Force Personnel Center  
**AFPD**—Air Force Policy Directive  
**AFRC**—Air Force Reserve Command  
**AFSEC**—Air Force Safety Center  
**AFSPC**—Air Force Space Command  
**AFTAC**—Air Force Technical Applications Center  
**AMC**—Air Mobility Command  
**ANG**—Air National Guard  
**CCDR**—Combatant Commander  
**CCMD**—Combatant Command  
**CSAF**—Chief of Staff of the Air Force  
**DoD**—Department of Defense  
**DoDD**—Department of Defense Directive  
**DoDI**—Department of Defense Instruction  
**DoDM**—Department of Defense Manual  
**FOA**—Field Operating Agency  
**HAF**—Headquarters Air Force  
**IAW**—In Accordance With  
**JCIDS**—Joint Capabilities Integration and Development System  
**MAJCOM**—Major Command  
**NATO**—North Atlantic Treaty Organization  
**NC3**—Nuclear Command, Control, and Communications  
**NGB**—National Guard Bureau  
**NIRI**—Nuclear Issues Resolution and Integration Board  
**NLCC**—National Leadership Command Capability  
**NMM**—Nuclear Materiel Management  
**NOB**—Nuclear Oversight Board  
**PACAF**—Pacific Air Forces  
**PPBE**—Planning, Programming, Budgeting, and Execution  
**SecAF**—Secretary of the Air Force  
**U.S.**—United States  
**USAF**—United States Air Force

**USAFE**—United States Air Forces in Europe

**USC**—United States Code

**USEUCOM**—United States European Command

**USSTRATCOM**—United States Strategic Command

## Attachment 2

### AIR FORCE NUCLEAR MISSION GOVERNING BODIES

**A2.1. Air Force Nuclear Mission Governance Structure.** The major deliberative bodies of the Air Force Nuclear Mission Governance Structure include the NOB and the NIRI.

**A2.2. Nuclear Oversight Board (NOB).** Co-chaired by the SecAF and the CSAF and comprising MAJCOM commanders and other designated members, the NOB provides senior-level executive oversight and strategic direction to the Air Force nuclear mission. The NOB is the primary forum for Air Force nuclear mission issues related to policy, national strategy implementation, organization, assessments, and strategic communications. The NOB resolves Air Force nuclear mission issues and ensures senior-level stewardship of the Air Force nuclear mission.

A2.2.1. As the NOB Secretariat, AF/A10 will:

A2.2.1.1. Work with MAJCOM commanders and HAF two-letters to identify, discuss, vet, and resolve issues and/or impacts on the Air Force nuclear mission stemming from evolving national policies, strategies, studies, and reviews.

A2.2.1.2. Task and track issues and/or actions to appropriate Air Force organizations.

A2.2.1.3. Charter and chair the NIRI.

A2.2.2. Guidelines. The NOB will meet at least three times each calendar year or as directed by the SecAF/CSAF. When practical, meetings will be held in conjunction with CORONA or other four-star forums.

A2.2.3. NOB invitees are by name. If unable to attend, a named invitee may nominate a general officer or civilian equivalent for SecAF/CSAF approval. Following SecAF/CSAF approval prior to the NOB, invitees will present their respective briefings. Approved subject matter experts will be present only for their briefing and will depart upon completion.

**A2.3. Nuclear Issues Resolution and Integration Board (NIRI).** Chaired by AF/A10, the NIRI provides senior-level Air Force oversight and strategic direction to resolve key issues affecting the Air Force nuclear mission. The NIRI brings decision-quality issues to the NOB to address issues and implements direction from the SecAF and the CSAF. HAF deputy two-letters, MAJCOM vice commanders, and others as designated comprise the NIRI. AFGSC, as a Service component of USSTRATCOM, and USAFE, as a Service component of USEUCOM, will brief the NIRI on issues affecting their areas of responsibility.

A2.3.1. The NIRI addresses issues arising from Air Force nuclear mission assessments, nuclear-related boards, commissions, panels, task forces, or similar groups, and oversees implementation of direction and guidance given by the SecAF and the CSAF.

A2.3.2. Guidelines.

A2.3.2.1. The NIRI charter specifies that the board should meet at least quarterly and as directed by AF/A10.

A2.3.2.2. AF/A10 may invite other Air Force, DoD, or Interagency organizations as “special invitees” on a case-by-case basis. A general officer or civilian equivalent must represent these organizations.

### Attachment 3

## KEY FUNCTIONS OF THE AIR FORCE NUCLEAR MISSION

### A3.1. Key Functions.

A3.1.1. Human Capital Development. The Air Force provides combat capabilities and technical expertise for the planning, employment, and execution of the nuclear mission on behalf of CCDRs. These trained, certified, and combat-ready forces conduct nuclear operations, maintenance, sustainment, security, and support functions. Through Service-wide development of the force via training, education, assignments, exercises, and evaluations, the Air Force sustains nuclear expertise and a culture of excellence throughout the nuclear mission. To successfully execute the nuclear mission and maintain nuclear surety, the Air Force will fill key leadership positions of high-level responsibility with personnel appropriately trained and qualified in the nuclear mission.

**A3.2. Nuclear Command, Control, and Communications.** Nuclear command, control, and communications provide the capability through which Presidential authority for employment and termination of nuclear weapons operations is exercised and operational command and control over U.S. nuclear forces is conducted. AFI 13-550, *Air Force Nuclear Command, Control, and Communications*, provides a description of nuclear command, control, and communications functions.

**A3.3. Stockpile Management.** The Air Force maintains an inventory of nuclear weapons to fulfill operational requirements. Weapons reliability depends on sustainment and surveillance activities. Sustainment includes alterations, modifications, life extension programs, limited life component exchanges, and other related activities. Surveillance involves flight and laboratory testing of assigned weapons to uncover defects and ensure systems continue to satisfy requirements. Stockpile management requires coordination among Air Force stakeholder organizations as well as Office of the Secretary of Defense, Joint Staff, CCMDs, National Nuclear Security Administration, and U.S. nuclear weapon national laboratories. Planning, programming, and budgeting for nuclear weapon stockpile management activities, Air Force delivery systems, and other Service-provided equipment are essential to satisfy U.S. national security objectives.

**A3.4. Nuclear Materiel Management.** This activity is associated with responsibilities for acquisition, sustainment, research and development, test and evaluation, and installation mission support that enable the warfighting capabilities of the Air Force nuclear mission.

**A3.5. Countering Weapons of Mass Destruction and Nuclear-related Treaty Compliance.** These activities are associated with the Air Force nuclear mission as described in AFPD 10-26, *Countering Weapons of Mass Destruction Enterprise*, and AFPD 16-6, *International Arms Control and Nonproliferation Agreements, and the DoD Foreign Clearance Program*.

## Attachment 4

### NUCLEAR OCCUPATIONAL COMPETENCIES

**A4.1. Background.** Deliberate development of military and civilian Airmen supporting the Air Force nuclear mission should include nuclear occupational competencies to ensure mission success. Each competency should be coupled with a proficiency level delineated by rank and grade to span a nuclear Continuum of Learning (as described in AFI 36-2640, *Executing Total Force Development*). Reference AFMAN 36-2647, *Institutional Competency Development and Management*, for further information regarding competencies and proficiency levels. IAW AFI 36-2640, AF/A10 has established the following six nuclear occupational competencies:

A4.1.1. Nuclear Policy and Strategy. Comprehend the complexities of the changing international security environment — to include treaties and agreements — and the role of nuclear weapons in U.S. security policy to deter aggression and coercion and to assure Allies and partners.

A4.1.2. Nuclear Operations and U.S. Nuclear Forces. Comprehend U.S. nuclear force structure, with an emphasis on Air Force forces, to understand the strengths, challenges, and support requirements of each element of the force.

A4.1.3. U.S. Nuclear Support and Infrastructure. Recognize acquisition, infrastructure, and support requirements for nuclear forces and weapons to sustain the nuclear mission.

A4.1.4. Nuclear Surety. Understand Air Force nuclear weapons surety program to assure nuclear weapons system safety, security, and reliability, and to ensure nuclear weapons remain under positive control per DoDD 3150.02.

A4.1.5. Nuclear Command, Control, and Communications. Understand NC2 requirements, functions, related authorities, and policies, and how NC3 systems support planning and execution of the nuclear mission.

A4.1.6. Unique Aspects of the Nuclear Mission. Understand the nuclear operating environment produces unique challenges for leadership, personnel, and systems.