

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

AIR FORCE POLICY DIRECTIVE 13-5

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

AIR FORCE NUCLEAR ENTERPRISE

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This Directive implements Department of Defense Directive (DoDD) 3150.01, *Joint DoD-Department Of Energy/National Nuclear Security Administration (DoD-DOE/NNSA) Nuclear Weapon Life-Cycle Activities*, Department of Defense Instruction (DoDI) S-3730.01, *Nuclear Command, Control, and Communications (NC3) System*, DoDI 5030.55, *DoD Procedures for Joint DoD-DOE Nuclear Weapons Life-Cycle Activities*, DoDI 5210.42, *DoD Nuclear Weapons Personnel Reliability Assurance*, DoDD S-5210.81, *United States Nuclear Weapons Command and Control, Safety and Security*. This Directive is consistent with DoDD 2060.02, *Department of Defense Combating Weapons of Mass Destruction (WMD) Policy*, DoDI 2060.03, *Application of the National Security Exclusion to the Agreements Between the United States of America and the International Atomic Energy Agency for the Application of Safeguards in the United States of America*, DoDD 2060.1, *Implementation of, and Compliance with, Arms Control Agreements*, DoDI 3150.09, *The Chemical, Biological, Radiological and Nuclear (CBRN) Survivability Policy*, DoDD S-3710.01, *(U) National Leadership Command Capability (NLCC)*, DoDD 4500.54E, *DoD Foreign Clearance Program (FCP)*, DoDD 5160.05E, *Roles and Responsibilities Associated with the Chemical and Biological Defense (CBD) Program (CBDP)*, and DoDI 5210.88, *Security Standards for Safeguarding Biological Select Agents and Toxins (BSAT)*. This Air Force Policy Directive (AFPD) establishes Air Force policy for the management of the Air Force Nuclear Enterprise and Nuclear Operations. This Directive applies to all Regular Air Force (RegAF), Air National Guard of the United States (U.S.), Reserve, Department of the Air Force civilian personnel, and contractors tasked with the responsibility to operate, maintain, control, secure, inspect, manage, and account for nuclear equipment and accomplish nuclear-related tasks. This Directive assigns specific responsibilities and establishes supported and supporting relationships among Air Force organizations for the efficient and

effective operation of the Air Force Nuclear Enterprise. 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*. 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. This Directive may not be supplemented.

SUMMARY OF CHANGES

This document has been substantially revised and must be completely reviewed. Major changes include revising and adding organizational responsibilities, updating definitions of *Air Force Nuclear Operations* and *Air Force Nuclear Enterprise*, and making changes required by Program Action Directive (PAD) D16-01, *Centralized Management of the Nuclear Enterprise*, and 10 United States Code (USC) § 8040, *Oversight of Nuclear Deterrence Mission*.

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1. Air Force Nuclear Operations . Nuclear operations are that portion of the range of military operations pertaining to nuclear weapons and includes deterrence, crisis response, strike, assessment, and return to stability. Air Force nuclear operations comprise weapons, weapon delivery systems, and forces that conduct nuclear command and control (NC2); operate, sustain, maintain, and secure nuclear weapons; ensure nuclear weapons surety across the stockpile-to-target sequence (STS); and support the Air Force Nuclear Enterprise as a whole.

2. Air Force Nuclear Enterprise. The Air Force Nuclear Enterprise consists of the people, organizations, processes, procedures, and systems conducting, executing, and supporting nuclear operations. It includes Air Force forces and organizations responsible for nuclear policy and guidance.

3. Air Force Nuclear Enterprise Policy. At a Service level, the Air Force organizes, trains, and equips nuclear forces for day-to-day capabilities to support Combatant Commander (CCDR) requirements. At the national level, Air Force nuclear operations support national security goals of deterring adversaries from attacking the U.S. and its interests with nuclear weapons, other

WMD, or large-scale conflict; support non-proliferation efforts; assuring allies and partners of our capability to protect them; and defeating adversaries. To provide a credible nuclear capability, the Air Force will:

3.1. Present forces to CCDRs to assure allies and partners, deter adversaries, extend deterrence on behalf of allies and partners, and conduct nuclear operations.

3.2. Organize, train, and equip those personnel, weapons systems (i.e., intercontinental ballistic missiles (ICBM), dual capable heavy bombers, dual capable fighters, and NC3), support forces (e.g., tanker, airlift, command and control (C2), and reconnaissance/surveillance assets, and space, missile warning, and communications systems), and support infrastructure (e.g., wing command posts and mobile support teams) required to conduct nuclear operations.

3.2.1. Conduct robust, reliable, flexible, and survivable nuclear operations to support U.S. national security objectives and U.S. Government international agreements.

3.2.2. Implement nuclear weapons surety policies, procedures, controls, and actions to ensure there are no nuclear weapon accidents, incidents, unauthorized detonations, or degradation of weapon effectiveness during its STS.

3.2.3. Ensure weapon security objectives satisfy mission requirements.

3.2.4. Promote weapon safety, security, and reliability needed to sustain nuclear force capabilities over the long term.

3.2.5. Promote a culture of accountability, self-assessment, and uncompromising performance. Within the context of the Air Force Nuclear Enterprise, accountability is the acknowledgment and assumption of responsibility for nuclear-related actions, decisions, and policies and includes authority, administration, and implementation. Accountability encompasses the obligation to report, consistent with existing Air Force policies and instructions, and answer to appropriate authorities for resulting consequences.

3.3. Advocate for the necessary investments and resources to sustain, modernize, and recapitalize nuclear forces and supporting infrastructure.

4. Component Functions of the Air Force Nuclear Enterprise.

4.1. 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.

4.2. NC3. Air Force Global Strike Command (AFGSC) is the Service's lead command for Air Force specific NC3 communications systems and components as well as the lead command for the Air Force NC3 weapon system IAW AFPD 10-9, *Lead Command Designation and Responsibilities for Weapon Systems*, through which the President exercises

NC2. AFGSC is the supported major command (MAJCOM) for NC3; all other MAJCOMs are supporting for oversight, planning, programming, budgeting, and execution (PPBE), readiness, resources, sustainment, requirements development, and assessments. NC3 provides the capability through which Presidential authority for employment and termination of nuclear weapons operations is exercised and through which operational C2 over U.S. nuclear forces is conducted. Air Force Instruction (AFI) 13-550, *Air Force Nuclear Command, Control, and Communications*, provides a description of NC3 functions. Of note, the Air Force NC3 weapon system does not incorporate all NC3 systems, and AFGSC does not own all Air Force NC3 systems.

4.3. Stockpile Management. The Air Force maintains an inventory of nuclear weapons to fulfill operational requirements. Weapons reliability depends on sustainment and surveillance activities. Sustainment programs include alterations, modifications, life extension programs, and limited life component exchanges. Surveillance involves periodic dismantlement and inspection of deployed weapons to uncover any defects. The combination of trained personnel, inspections, the proper equipment, and facilities all help ensure nuclear weapons remain robust, reliable, flexible, and survivable. Stockpile management requires planning and budgeting for nuclear weapon sustainment and surveillance efforts in order to satisfy national security objectives.

4.4. Nuclear Materiel Management (NMM). Activities associated with Air Force Materiel Command (AFMC) responsibilities for acquisition, sustainment, research and development, test and evaluation, and installation mission support that enable the warfighting capabilities of the Air Force Nuclear Enterprise.

4.5. Countering WMD and Nuclear-related Treaty Compliance. These activities are connected with the Air Force Nuclear Enterprise as described in AFPD 10-26, *Countering Weapons of Mass Destruction (CWMD) Enterprise*, AFPD 16-6, *International Arms Control and Nonproliferation Agreements*, and the DoD Foreign Clearance Program, and *The United States Air Force Counter-Chemical, Biological, Radiological, and Nuclear Master Plan FY 2010-2015*.

5. Roles and Responsibilities.

5.1. **Secretary of the Air Force (SecAF)** . The SecAF, or his/her designee, formulates Air Force nuclear policies and programs consistent with national security objectives, implements nuclear policy, program, and budget decisions, and fulfills Combatant Command (CCMD) operational requirements IAW 10 USC § 8013, *Secretary of the Air Force*. The SecAF provides authority, direction, and control for the Chief of Staff of the Air Force (CSAF) in executing his responsibilities in the nuclear deterrence mission IAW 10 USC § 8040. The SecAF develops policy, guidance, and procedures for response task force operating requirements IAW DoDD 3150.08, *Department of Defense Response to Nuclear and Radiological Incidents*, and ensures the surety of all nuclear weapons and weapon systems for which the Air Force has a life-cycle management responsibility. The SecAF develops detailed technical and operational procedures that govern nuclear weapon operations, transportation, storage, and maintenance through the complete STS IAW DoDD 3150.02, *DoD Nuclear Weapons Surety Program*, and executes responsibilities as EA for the DoD FCP IAW DoDD 4500.54E and has delegated these responsibilities to AF/A10 in HAF MD 1-60, *Deputy Chief of Staff of the Air Force Strategic Deterrence and Nuclear Integration*.

5.2. Chief of Staff of the Air Force (CSAF) . The CSAF carries out SecAF-approved plans and recommendations of the Air Staff pertaining to the Air Force Nuclear Enterprise IAW 10 USC § 8033, *Chief of Staff*. Subject to the authority, direction, and control of the SecAF, the CSAF is responsible for overseeing the safety, security, reliability, effectiveness, and credibility of the nuclear deterrence mission of the Air Force IAW 10 USC § 8040. Further, the CSAF assigns responsibilities and establishes supported and supporting relationships among subordinate organizations that operate or support nuclear weapons and nuclear weapons systems through this policy directive.

5.3. Under Secretary of the Air Force (USecAF). The USecAF is responsible to provide Secretariat executive-level representation of the Air Force Nuclear Enterprise. The USecAF contributes to the development of nuclear policy and strategy, identification of funding options and solutions, and sustainment of nuclear career fields. The USecAF advocates for the nuclear mission at all levels of the U.S. Government.

5.4. Commander, Air Force Global Strike Command (AFGSC/CC). Commander, AFGSC serves as the single accountable officer to the SecAF and the CSAF for all operational aspects of the Air Force nuclear mission, specifically, forces in support of United States Strategic Command (USSTRATCOM), as contemplated by the National Defense Authorization Act for Fiscal Year 2016. Commander, AFGSC chairs the Air Force Nuclear Operations Council (AFNOC). Reference para 5.20.7. for command responsibilities.

5.5. Deputy Chief of Staff for Strategic Deterrence and Nuclear Integration (AF/A10). AF/A10 serves as the HAF accountable officer responsible to the SecAF and the CSAF for the Air Force Nuclear Enterprise IAW HAF MD 1-60. AF/A10 provides direction, guidance, integration, and advocacy regarding the nuclear deterrence mission of the Air Force IAW 10 USC § 8040. AF/A10 retains higher headquarters responsibilities for Air Force NLCC/NC3 policy, strategy, and planning IAW Air Force, DoD, and Chairman of the Joint Chiefs of Staff policies. The directorate provides guidance for all organizations with nuclear weapons or responsibilities and authorities for systems supporting nuclear operations. Guidance may pertain to implementing national-level directives as directed by SecAF/CSAF and includes 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 Enterprise activities. AF/A10 will:

5.5.1. Conduct monitoring and oversight activities regarding the safety, security, reliability, and effectiveness of the nuclear deterrence mission of the Air Force.

5.5.2. Conduct periodic comprehensive assessments of all aspects of the Air Force's nuclear deterrence mission IAW 10 USC § 8040 and provide these assessments to the SecAF and the CSAF. Consolidated assessments of the health and status of the Air Force Nuclear Enterprise provide analytical support to leaders at all levels, equip them to better advocate for the Air Force Nuclear Enterprise, and facilitate risk decisions at appropriate levels. Assessments are built on robust self-inspection at each level of authority and are conducted IAW AFI 90-201, *The Air Force Inspection System*.

5.5.3. Serve as the Air Force entry point for Office of the Secretary of Defense (OSD), Joint Staff (JS), Air Staff, MAJCOMs, Department of Energy (DOE), and other agencies concerning matters related to the Air Force Nuclear Enterprise.

- 5.5.4. Chair and charter the Nuclear Enterprise Action Committee (NEAC).
- 5.5.5. On behalf of the SecAF and the CSAF, represent the Air Force to the Nuclear Weapons Council (NWC) IAW 10 USC § 179, *Nuclear Weapons Council*, and to the NLCC Executive Management Board (EMB). Provide support to organizations subordinate to the NWC.
- 5.5.5.1. Act as the primary Air Force interface to DoD CIO as the chair for the NLCC EMB and its subordinate boards and working groups, providing technical information and framing issues to support Air Force NC3 requirements. AF/A10 will defer to SAF/CIO A6 on non-NC3 related issues.
- 5.5.6. Integrate strategic planning and future concept development for nuclear weapons and nuclear weapon systems across the Air Force.
- 5.5.7. Lead Air Force participation in DoD-sponsored program budget reviews and participate in Service-level programming, budgeting, and resourcing activities.
- 5.5.7.1. Present Air Force Nuclear Enterprise equities to stakeholders and identify innovative and cost-effective solutions throughout the strategic planning and programming process (SP3). These equities are communicated through the *United States Air Force (USAF) Strategic Master Plan* to risk-assessed core function support plans (CFSP) developed by Service Core Function (SCF) Core Function Leads (CFL). Close coordination with AF/A5/8 and SCF CFLs in eleven of the twelve SCFs ensures the PPBE process not only reflects Nuclear Enterprise risk-assessed capabilities, gaps, and shortfalls but also sustainment, modernization, and recapitalization plans and maintaining and constructing appropriate facilities and providing the force with properly maintained equipment.
- 5.5.8. Lead 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 (NMCS).
- 5.5.9. Lead Air Force participation in DoD program budget reviews for the Air Force Nuclear Enterprise and Air Force NLCC/NC3 programs and resources.
- 5.5.10. Participate in programming, budgeting, and resourcing activities for Air Force NLCC/NC3 programs and resources.
- 5.5.11. Develop, implement, and evaluate Air Force Personnel Reliability Assurance Program (PRAP) policy and procedures IAW DoD Personnel Reliability Assurance (PRA) policy guidelines; provide oversight of Air Force nuclear weapons PRAP; liaise with the Department of the Navy and other DoD agencies on PRA policy interpretation; and serve as the technical advisor on behalf of the CSAF for PRAP-related issues.
- 5.5.12. 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).
- 5.5.13. As the Air Force Nuclear Enterprise Functional Authority (NEFA) 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.

The NEFA prioritizes limited resources, defines and articulates human capital requirements, validates and approves key nuclear billets (KNB), deliberately develops assigned Airmen, and supports other nuclear-related functional authorities (FA).

5.5.13.1. As the Nuclear and Missile Operations (13N) career field FA and functional manager, provide strategic oversight for nuclear force development efforts. Charter, convene, and chair development teams (DT), support accession processes, and validate advanced academic degree requirements and professional continuing education requirements in coordination with AF/A1.

5.5.14. Lead arms control and international treaties implementation and compliance measures that affect the Air Force Nuclear Enterprise as well as conventional arms control treaties, agreements, and nonproliferation measures.

5.5.15. Lead policy and guidance development for the peacetime airlift of nuclear and nuclear-related cargo IAW the DoD Foreign Clearance Guide (FCG) and the FCG Special Weapons Overflight Guide Supplement. Manage the Aircraft and Personnel Automated Clearance System.

5.5.16. Review this Directive IAW AFI 33-360, *Publications and Forms Management*, to ensure it remains current.

5.5.17. Perform other duties as described in HAF MD 1-60.

5.6. Deputy Chief of Staff, Manpower, Personnel and Services (AF/A1). AF/A1 manages personnel performing nuclear-related duties and/or assigned to KNBs and is responsible for approval of personnel policies. In coordination with AF/A10, AF/A1 will:

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

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

5.6.3. Serve as subject matter expert for Air Force specialty codes related to KNBs, additional qualification designators, and enlisted classifications.

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

5.6.5. Partner with AF/A10 to assess the health of the Air Force Nuclear Enterprise by supporting requests for data, analysis, and other inputs to the assessment process.

5.7. Deputy Chief of Staff, Intelligence, Surveillance, and Reconnaissance (AF/A2). The directorate executes policy formulation, planning, evaluation, oversight, and leadership of Air Force intelligence, surveillance, and reconnaissance capabilities for the purpose of supporting intelligence requirements for global Air Force nuclear operations. In coordination with AF/A10, AF/A2 will:

5.7.1. Establish mechanisms to develop and maintain recurring intelligence products covering non-U.S. nuclear systems and incorporating threat assessments and analysis of security risks and vulnerabilities; promulgate these products with Air Combat Command

(ACC), AFGSC, Air Force Space Command (AFSPC), AFMC, AF/A10, subordinate units, and other units at the request of ACC, AFGSC, AFSPC, AFMC, or AF/A10.

5.7.2. Establish policies and processes to provide intelligence and threat support to Air Force NLCC/NC3 programs IAW AFI 14-111, *Intelligence Support to the Acquisition Life-Cycle*, and promulgate these 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.

5.8. Deputy Chief of Staff, Operations (AF/A3). AF/A3 organizes, trains, and equips nuclear forces for Joint warfighters by providing near real-time, accurate, and relevant solutions to nuclear operational challenges and requirements. In coordination with AF/A10, AF/A3 will:

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

5.8.2. Include nuclear operations capabilities and effects in appropriate concepts of operations (CONOPS) and properly coordinate all nuclear and related NMCS requirements with AF/A10.

5.8.3. Participate in executing the orders and direction of the President of the United States (POTUS), Secretary of Defense (SecDef), JS, or National Military Command Center during actual or exercise nuclear weapons accidents and incidents.

5.8.4. Maintain Air Force Key Capability Areas, to include nuclear capabilities identified within the Air Force Nuclear Enterprise Capability Viewpoints, at the direction of AFGSC.

5.8.5. Include Air Force Nuclear Enterprise and Air Force NLCC/NC3 capabilities into the Air Force Warfighter Mission Area at the direction of AFGSC.

5.8.6. Partner with AF/A10 to assess the health of the Air Force Nuclear Enterprise by providing data, analysis, and other inputs to the assessment process.

5.9. Deputy Chief of Staff for Logistics, Engineering and Force Protection (AF/A4). AF/A4 provides leadership, management, human capital development, and integration of Air Force engineering, logistics readiness, security forces, materiel management, transportation, and aircraft, nuclear weapons, munitions, and missile maintenance relevant to the Nuclear Enterprise. The directorate is responsible to advocate for military construction, facilities sustainment, restoration and maintenance, and base operations support requirements for the Air Force Nuclear Enterprise. In coordination with AF/A10, AF/A4 will:

5.9.1. 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, and nuclear weapon accident response.

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

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

5.9.4. Develop policy and guidance for agile combat support related to the Air Force Nuclear Enterprise.

5.9.5. Develop logistics policy and guidance in support of Prime Nuclear Airlift Forces (PNAF) operations.

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

5.9.7. Partner with AF/A10 to assess the health of the Air Force Nuclear Enterprise by providing data, analysis, and other inputs to the assessment process.

5.10. Deputy Chief of Staff for Strategic Plans and Requirements (AF/A5/8). As lead for the Air Force's SP3, the directorate is responsible for integrating nuclear planning and programming requirements into Air Force resource allocation and PPBE policy and guidance as well as Air Force SP3 activities. In coordination with AFGSC/A5/8 and AF/A10, AF/A5/8 will:

5.10.1. Coordinate nuclear plans and requirements with all Air Force components that have Air Force Nuclear Enterprise equities.

5.10.2. Translate vision and strategy into planning to reflect the CSAF's strategic priorities for the development of CFSPs and near-, mid-, and far-term investment strategies pertaining to Air Force nuclear weapons and weapons systems.

5.10.3. Develop capabilities and program requirements for nuclear deterrence.

5.10.4. Serve as Air Force lead for applicable JS Functional Capabilities Board.

5.10.5. Partner with AF/A10 to assess the health of the Air Force Nuclear Enterprise by providing data, analysis, and other inputs to the assessment process.

5.11. Director, Studies, Analyses and Assessments (AF/A9). AF/A9 is responsible for the integration of studies, analyses, and assessments of programs, plans, and operations related to the Air Force Nuclear Enterprise. In coordination with AF/A10, AF/A9 will:

5.11.1. Assess future nuclear force structure/alternatives.

5.11.2. Synchronize DoD and Air Force nuclear capabilities and requirements analyses and optimize nuclear force personnel and infrastructure through the Support for Strategic Analysis (SSA) community tri-chaired by OSD(CAPE), OSD(P), and JS/J8.

5.11.3. As a member of the DoD Analysis Community, validate SSA products (i.e., integrated security constructs or scenarios) involving the use or employment of Air Force nuclear weapons.

5.11.4. Guide the assessment of all elements of the Air Force Nuclear Enterprise.

5.11.5. Validate risk assessment models created by CFLs to assess risk to Air Force SCFs with Air Force Nuclear Enterprise equities.

5.11.6. Partner with AF/A10 to assess the health of the Air Force Nuclear Enterprise by providing analysis and technical advice on the assessment process.

5.12. Air Force Chief of Safety (AF/SE) and Air Force Safety Center (AFSEC) Commander. AF/SE (Commander, AFSEC) provides capabilities to identify, assess, and mitigate strategic, operational, and tactical risks to the safe accomplishment of the nuclear mission. In coordination with AF/A10, AF/SE (Commander, AFSEC) will:

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

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

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

5.12.4. Appoint the Chairperson to the Nuclear Weapons System Surety Group (NWSSG), which conducts nuclear weapon system safety studies and operational safety reviews to evaluate Air Force nuclear weapon systems and ensure DoD Nuclear Weapon System Surety Standards are met in weapon system design and operations IAW DoD Manual (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*.

5.12.5. 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)*.

5.12.6. Fulfill the requirements of DoDD S-5210.81 related to surety of nuclear weapons and weapons systems, DoDD 3150.02, AFI 91-101, and AFI 91-102.

5.12.7. Partner with AF/A10 to assess the health of the Air Force Nuclear Enterprise by providing data, analysis, and other inputs to the assessment process.

5.13. Air Force Surgeon General (AF/SG). AF/SG is responsible to enable medically fit forces, provide expeditionary medics, and improve the health of those performing the nuclear mission. In coordination with AF/A10, AF/SG will:

5.13.1. 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*.

5.13.2. 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, AFPD 91-1, *Nuclear Weapons and Systems Surety*, AFI 91-108, *Nuclear Weapons Intrinsic Radiation (INRAD) and 91(B) Radioactive Material Safety Program*, DoDI 6055.01, *DoD Safety and Occupational Health (SOH) Program*, and DoDI 6055.05, *Occupational and Environmental Health (OEH)*.

5.13.3. 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, DoDI 3150.10, *DoD Response to U.S. Nuclear Weapon Incidents*, and DoDM 3150.08, *Nuclear Weapon Accident Response Procedures (NARP)*.

5.14. Director, Air Force Test and Evaluation (AF/TE). AF/TE oversees test and evaluation (T&E) of Air Force nuclear weapons delivery systems IAW AFI 99-103, *Capabilities-Based Test and Evaluation*. In coordination with AF/A10, AF/TE will:

- 5.14.1. Provide guidance and review of T&E plans, execution, policies, programs, and budgets.
- 5.14.2. Determine the adequacy of T&E resources required to support Air Force weapon system development.
- 5.14.3. Resolve developmental and operational test programmatic issues for Air Force systems.

5.15. Administrative Assistant to the Secretary of the Air Force (SAF/AA). SAF/AA provides oversight for accountability, training, and delivery of accurate guidance for the handling, safeguarding, protecting, or releasing of nuclear-related information pursuant to Title 42 USC 2011 et seq., *Atomic Energy Act of 1954*, 10 Code of Federal Regulations Part 1045, *Nuclear Classification and Declassification*, and DoDI 5210.02, *Access to and Dissemination of Restricted Data and Formerly Restricted Data*. SAF/AA also serves as the Restricted Data Management Official on behalf of the Air Force Nuclear Enterprise.

5.16. Assistant Secretary of the Air Force for Acquisition (SAF/AQ). SAF/AQ leads the acquisition (i.e., research, development, production, and support) of Air Force nuclear weapons delivery systems and related materiel in coordination with federal agencies for which the Air Force has life cycle management responsibility. In coordination with AF/A10, SAF/AQ will:

- 5.16.1. Through multiple Air Force program executive offices (AFPEO), ensure the timely delivery and life-cycle sustainment of Air Force Nuclear Enterprise system capabilities and equipment to the warfighter based on validated requirements and funding.
- 5.16.2. Partner with AF/A10 to assess the health of the Air Force Nuclear Enterprise by providing data, analysis, and other inputs to the assessment process.

5.17. Chief, Information Dominance and Chief Information Officer (SAF/CIO A6). SAF/CIO A6 provides warfighting integration and net-centric advocacy supporting resourcing and delivery of Air Force NC3 system capabilities, equipment to warfighters, and sustainment to the Air Force Nuclear Enterprise. In coordination with AF/A10, SAF/CIO A6 will:

- 5.17.1. Coordinate with AFGSC and AF/A10 to provide Air Force NLCC/NC3-related cyber security policy, guidance, and oversight. Advocate for, and provide feedback on, Air Force NLCC/NC3 cybersecurity and related issues to the National Security Agency.
- 5.17.2. Coordinate with AFGSC and AF/A10 on additional Air Force NLCC/NC3-related development, career field management, training, and education for cyber communications and information Air Force Specialty Code and occupational series.
- 5.17.3. Coordinate with Defense Information Systems Agency (DISA), AFGSC, and AF/A10 on Air Force NLCC/NC3 architecture requirements and, in coordination with AFGSC, ensure future Air Force NLCC/NC3 systems satisfy data strategy requirements.

5.17.4. In coordination with Air Mobility Command (AMC), oversee the Air Force portion of the Senior Leader Command, Control, and Communications System (SLC3S), a principal mission area of the NLCC.

5.17.5. Partner with AF/A10 to assess the health of the Air Force Nuclear Enterprise by providing data, analysis, and other inputs to the assessment process.

5.18. Inspector General of the Air Force (SAF/IG). SAF/IG enhances nuclear inspection processes, ensures consistent nuclear inspection standards, and assesses the readiness, economy, efficiency, and the state of discipline of the Air Force Nuclear Enterprise. In coordination with AF/A10, SAF/IG will:

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

5.18.2. Advise on trends and issues of compliance with established DoD and Air Force nuclear weapons systems safety, security, accident and incident response, reliability, and personnel policy based on inspection results.

5.18.3. Partner with AF/A10 to assess the health of the Air Force Nuclear Enterprise by providing data, analysis, and other inputs to the assessment process.

5.18.4. Commander, Air Force Inspection Agency (AFIA). As a SAF/IG field operating agency (FOA), AFIA conducts independent inspections, evaluations, and analyses to advance continuous improvement of Air Force mission effectiveness within the Air Force Nuclear Enterprise. AFIA duties are prescribed by AFI 90-201. In coordination with AF/A10, AFIA will:

5.18.4.1. Conduct oversight assessments to provide independent validation and verification of Air Force inspections and promote standardization across the Air Force Nuclear Enterprise.

5.18.4.2. Provide feedback to SAF/IG and MAJCOM commanders on the efficiency, effectiveness, and consistency of MAJCOM Inspector General (IG) teams conducting inspections. Feedback is derived from over-the-shoulder observation of inspection planning and execution, focusing on the quality, standardization, objectivity, thoroughness, and conduct of the MAJCOM IG team.

5.18.4.3. Integrate with MAJCOM IG teams on all scheduled and no-notice nuclear surety inspections (NSI) used to operationally certify and verify nuclear-capable units, support NSI re-inspections, select Initial NSIs, and provide expertise across various nuclear surety major graded areas.

5.18.4.4. Provide technical assistance in the operation and inspection of nuclear-capable units. This assistance will pertain to all matters related to the robust, reliable, flexible, and survivable operation and maintenance of nuclear weapons and nuclear weapons systems and promote the correction of deficiencies found during inspections.

5.18.4.5. Provide instruction to all NSI inspectors.

5.19. **Deputy Under Secretary (Space) (SAF/SP).** SAF/SP supports the SecAF in all matters pertaining to both the Air Force and the National Security Space (NSS) enterprise, including those space enterprise capabilities directly supporting the Air Force Nuclear Enterprise. The directorate oversees all Air Force departmental space matters, including policies, strategies, plans, programming, and architecture assessment across the Space Enterprise. This includes space capabilities performing Integrated Tactical Warning and Attack Assessment (ITW/AA) and survivable/endurable NC3 systems in support of the Air Force Nuclear Enterprise. In coordination with AF/A10, SAF/SP will:

5.19.1. Advance NSS strategies through established processes for PPBE, space program acquisition, and space policy development.

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

5.20. **MAJCOM, FOA, and Direct Reporting Unit (DRU) Responsibilities.**

5.20.1. MAJCOMs, FOAs, and DRUs will enhance and reinforce nuclear partnerships among each other to ensure the viability of the Air Force Nuclear Enterprise.

5.20.2. With the exception of Pacific Air Forces (PACAF), MAJCOMs, FOAs, and DRUs conducting or supporting nuclear operations will develop plans, guidance, procedures, training, and budgets in coordination with MAJCOM commanders and AF/A10. MAJCOMs integrate nuclear capabilities into appropriate CONOPS, provide standardized nuclear mission materials for training and operational use by crews and NC3 maintainers, and establish uniform implementation guidance and procedures. MAJCOMs will conduct operations in compliance with treaty obligations.

5.20.3. Appropriate MAJCOMs with Air Force Nuclear Enterprise responsibilities and equities have established an A10 directorate (or equivalent) as their focal point for strategic deterrence and nuclear integration matters. The purpose of the A10 directorate (or equivalent) is to review MAJCOM guidance governing the Air Force Nuclear Enterprise and consolidate relevant MAJCOM 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 on Air Force Nuclear Enterprise issues.

5.20.4. MAJCOMs, FOAs, and DRUs will partner with AF/A10 to assess the health of the Air Force Nuclear Enterprise by providing data, analysis, and other inputs to the assessment process.

5.20.5. **Air Combat Command (ACC).** ACC provides nuclear-capable combat airpower to warfighting commands. ACC is responsible to provide guidance, oversight, and staff activities to sustain an enduring position within the Air Force Nuclear Enterprise. In coordination with AF/A10, ACC will:

5.20.5.1. Advocate for Combat Air Force (CAF)-related Dual Capable Aircraft (DCA) requirements.

5.20.5.2. Support USAFE in its organize, train, and equip responsibilities for DCA.

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

- 5.20.5.4. Integrate AFGSC forces into CAF operations, training, and exercises to support CCDR requirements for global strike and air and space expeditionary forces.
- 5.20.5.5. Develop concepts and strategies to support AFGSC nuclear forces through force packaging and mutual support.
- 5.20.5.6. In coordination with USSTRATCOM, integrate nuclear weapon operations (from employment to accidents and incidents) into operational planning scenarios.
- 5.20.5.7. Support AFGSC in the conduct of the Nuclear Weapon System Evaluation Program for DCA.
- 5.20.5.8. Support AFGSC as needed and assist in defining, assessing, and refining MAJCOM nuclear requirements and coordinating on operational topics, strategy development, and PPBE.
- 5.20.5.9. Conduct and report on lifecycle planning, resource management, sustainment, maintenance status, and requirements for assigned NC3-related systems.
- 5.20.5.10. Provide annual master plans to correct NC3 shortfalls when requested by the AFNOC.
- 5.20.5.11. Liaise with the USAF NC3 Center to enable two-way cooperation on operational topics (e.g., DCA), strategy development, and planning, programming, and budgeting.
- 5.20.5.12. Serve as a member on the Air Force NLCC/NC3 Oversight Council, Board, and Group and AFNOC.
- 5.20.5.13. Incorporate NC3 concepts, nuclear strike missions, and nuclear weapons employment concepts into advanced weapons and tactics training at all USAF Weapons School squadrons and Red Flag exercises.
- 5.20.5.14. 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.
- 5.20.5.15. Air Force Technical Applications Center (AFTAC). Performs nuclear treaty monitoring and nuclear event detection. AFTAC provides national authorities quality technical measurements to monitor treaty compliance. The center performs research and development of proliferation detection technologies to enhance treaty verification and encourage nonproliferation.
- 5.20.6. Air Education and Training Command (AETC).** AETC is responsible for training and educating Airmen assigned to positions that belong to the Air Force Nuclear Enterprise. In coordination with AF/A10, AETC will:
- 5.20.6.1. Develop and sustain robust and realistic nuclear training and education programs. Coordinate with AFGSC to annually review and update existing training and education programs.
- 5.20.6.2. 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.

5.20.6.3. In conjunction with MAJCOMs, develop measures of success to assess readiness and proficiency of Airmen to provide NC3 capabilities.

5.20.6.4. Support AFGSC as needed and assist in defining, assessing, and refining MAJCOM nuclear requirements and coordinating on operational topics, strategy development, and PPBE.

5.20.6.5. 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.

5.20.6.6. Through Air University (AU):

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

5.20.6.6.2. 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.

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

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

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

5.20.6.9. Brief Air Force Nuclear Enterprise senior leaders on all nuclear deterrence education, training, and research initiatives across the Air Force.

5.20.7. Air Force Global Strike Command (AFGSC). As a component MAJCOM of USSTRATCOM and U.S. Northern Command, AFGSC provides combat ready forces for deterrence and global strike operations on behalf of the POTUS and CCDRs. The command is responsible for ICBM systems, dual capable B-2/B-52 bombers with nuclear and conventional missions, conventional B-1 bombers, UH-1N helicopters with escort and emergency response missions, gravity nuclear weapons, nuclear cruise missiles, National Airborne Operations Center aircraft (E-4), Mobile Consolidated Command Center, NC3 weapon system, NLCC (except SLC3S), and supporting strategic operations squadrons. Specifically, AFGSC will:

5.20.7.1. Organize, train, and equip forces to conduct strategic deterrence and NC2 operations.

5.20.7.2. Provide stewardship of nuclear weapons across the Air Force Nuclear Enterprise.

5.20.7.2.1. 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. (CONUS) installations. Transfer custody for nuclear weapons to authorized DOE personnel IAW established procedures and provide security support while transiting the installation.

5.20.7.2.2. Conduct the Nuclear Weapon Stockpile Evaluation Program for ICBM forces and nuclear-capable bomber forces.

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

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

5.20.7.4. Serve as lead command for Air Force NC3 and coordinate with program offices, other Services, CCMDs, and agencies that have NLCC/NC3-related systems.

5.20.7.5. Review and endorse nuclear weapons security policy deviations to 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*.

5.20.7.6. Implement policies related to, provide C2 for, and conduct oversight of CONUS nuclear accident/incident response by:

5.20.7.6.1. 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.

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

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

5.20.7.6.4. Organizing, resourcing, staffing, training, equipping, and exercising a Response Task Force (RTF).

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

5.20.7.7. Conduct C2 activities supporting security of operational nuclear weapons.

5.20.7.8. Conduct cybersecurity oversight of Air Force NC3 systems IAW SAF/CIO 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*.

5.20.7.9. Serve as the Electromagnetic Pulse (EMP) Testing and Hardness Maintenance/Hardness Surveillance oversight authority with resourcing, test planning, and execution responsibilities.

5.20.7.10. Serve as the CFL for the Nuclear Deterrence Operations (NDO) SCF IAW Air Force Guidance Memorandum 2016-90-1101, *Air Force Strategic Planning Process*, and lead command for the NC3 weapon system IAW PAD D16-01. In this role, advocate for NDO requirements and solicit inputs from other MAJCOMs and FOAs with Air Force Nuclear Enterprise equities and consolidate them into their respective portfolio(s).

5.20.7.11. Identify, define, and refine nuclear gaps and requirements and provide solution advocacy through Joint Capabilities Integration and Development System (JCIDS), modification management, and PPBE processes.

5.20.7.12. Lead Air, Ground, and NC3 capability collaboration teams within the NDO portfolio that support science and technology (S&T) processes.

5.20.7.13. Advocate for weapons storage area, weapons storage facility, and weapons storage and security system (WS3) infrastructure requirements related to nuclear weapons maintenance procedures and sustainment IAW host-tenant support agreements.

5.20.7.14. 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.

5.20.7.15. Other responsibilities include:

5.20.7.15.1. Assess and report on readiness of NDO forces.

5.20.7.15.2. Ensure the adequacy of Air Force NDO exercise programs.

5.20.7.15.3. Develop business rules in conjunction with supporting MAJCOMs, SAF/IG, and AFIA to standardize nuclear inspection programs of MAJCOMs supporting NDO.

5.20.7.15.4. Provide input on the adequacy of supporting MAJCOMs' resources dedicated to support and execute NDO. Provide the CSAF and Air Force corporate process a prioritized 1-n list of NDO programs annually.

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

5.20.7.15.6. Maintain a Nuclear Chief Scientist Group to focus the S&T community on NDO requirements, communicate Commander, AFGSC intent to

the Air Force Nuclear Enterprise, and advise Commander, AFGSC and the AFNOC on S&T issues.

5.20.8. Air Force Materiel Command (AFMC). AFMC provides effective NMM support to the warfighter by managing the people, organizations, processes, procedures and systems used to conduct, execute and support nuclear deterrence. Included are: the infrastructure and lifecycle activities for nuclear weapons, delivery platforms and supporting systems; intellectual and technical competencies; and the cultural mindset that ensures robust, reliable, flexible, and survivable Air Force nuclear systems. AFMC develops and adheres to nuclear policy and guidance and strengthens relationships with organizations contributing to nuclear deterrence. AFMC's NMM responsibilities cut across all AFMC and headquarters organizations and must be focused on providing agile cradle-to-grave support to the warfighter. To best accomplish this, Commander, AFMC has designated the Air Force Nuclear Weapons Center (AFNWC) as the AFMC supported center with primary responsibility, authority and accountability for synchronizing all NMM activities within the command. As a result, AFNWC has the authority to execute its responsibility in direct support of AFGSC; this does not relieve other AFMC organizations of their respective responsibilities within NMM. Specifically, AFMC designates AFNWC (via direct support authority) as the principal representative of the command for NMM and authorizes AFNWC to communicate directly with AFGSC at all levels regarding such matters. With the exception of AFNWC, all AFMC centers are supporting centers. In coordination with AF/A10, AFMC will:

5.20.8.1. Organize, train, and equip to execute NMM functions necessary to acquire, modernize, and sustain nuclear systems and associated support and test equipment.

5.20.8.2. Coordinate Interagency efforts to sustain and extend the life of nuclear warheads and bombs for the airborne and ground-based legs of the triad.

5.20.8.3. 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. This 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 AFPEO for Nuclear Command, Control and Communications (AFPEO/NC3).

5.20.8.4. Assist in defining, assessing, and refining MAJCOM nuclear requirements and coordinating on operational topics, strategy development, and PPBE.

5.20.8.5. Develop and provide NC3 master plans to AFGSC for review and approval, and conduct annual reviews in coordination with AFGSC.

5.20.8.6. Conduct and report on lifecycle planning, resource management, sustainment, maintenance status, and requirements for assigned systems associated with NC3.

5.20.8.7. Provide input to AETC, AFGSC, and ACC (Weapons School) on plans for professional development, career field management training, and education of NC3 practitioners.

5.20.8.8. Develop the Air Force plan for EMP testing across all conventional and nuclear systems for all MAJCOMs and provide AFGSC the MAJCOM-validated Air Force-wide EMP test plan and requirements.

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

5.20.9. Air Force Installation and Mission Support Center (AFIMSC). AFIMSC provides enterprise-wide investment recommendations to the Air Force Corporate Structure, including civil engineering, logistics readiness, security forces, and transportation relevant to the Air Force Nuclear Enterprise.

5.20.10. Air Force Nuclear Weapons Center (AFNWC) . AFNWC is the AFMC supported center responsible for synchronizing NMM across AFMC and the Air Force. AFNWC delivers quality solutions to sustain, modernize, and recapitalize nuclear warfighting capabilities and ensures robust, reliable, flexible, and survivable nuclear weapons and related nuclear certified systems in support of POTUS and CCDRs. 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. AFNWC NC3 Integration Director is dual-hatted as the AFPEO for NC3, providing integration and portfolio management across the Air Force NC3 weapon system. Acquisition authorities for AFPEO/SS and AFPEO/NC3 flow from SAF/AQ. Additional responsibilities are delineated in AFMC MD 421, *Air Force Nuclear Weapons Center (AFNWC)*. In coordination with AF/A10 and AFGSC, AFNWC will:

5.20.10.1. Synchronize all NMM activities across AFMC and serve as the command's supported center and principal representative to AFGSC for all NMM-related matters. This also includes the responsibility to serve as AFMC's primary advocate for NMM-related resource prioritization.

5.20.10.2. Serve as the primary advocate for all NMM requirements across the Air Force and collaborate with HAF, MAJCOMs, CFLs, and AFMC centers to identify SP3 and sustainment requirements relevant to NMM, including NMM requirements for dual and multi-use platforms and systems.

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

5.20.10.4. Collaborate with program offices, USAFE, North Atlantic Treaty Organization (NATO) allies, 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.

5.20.10.5. Support AFPEO 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.

5.20.10.5.1. To assist in focusing on the nuclear rolls of program offices

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.

- 5.20.10.6. Develop and execute the Air Force EMP program IAW AFGSC direction.
 - 5.20.10.6.1. Partner with System Program Offices and MAJCOM representatives to generate a MAJCOM-validated EMP Test Priority List to include aircraft, line replaceable unit, facilities, ground support equipment, and NC3 systems.
 - 5.20.10.6.2. Perform program management functions for the EMP 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.
 - 5.20.10.7. Provide direct support to AFGSC by synchronizing modernization and procurement of Air Force NLCC/NC3 systems using AFGSC delineation and prioritization of warfighter needs.
 - 5.20.10.8. Share portfolio health assessments on nuclear programs with AFGSC.
 - 5.20.10.9. Synchronize with other MAJCOMs for Air Force NLCC/NC3-related activities and programs under their purview.
 - 5.20.10.10. Appoint a qualified individual to serve as a permanent member to the Air Force NWSSG.
 - 5.20.10.11. Serve as an advisory member of the Air Force NLCC/NC3 Oversight Council, Board, and Group and AFNOC.
- 5.20.11. **Air Force Personnel Center (AFPC).** As a FOA under AF/A1, AFPC supports the development of all human capital policies across the Air Force Nuclear Enterprise and executes those policies at the operational and tactical level. AFPC leads and manages all personnel activities and programs for RegAF 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 nuclear weapons PRAP and PRAP Administrative Qualification Central Cell operations. AFPC will:
- 5.20.11.1. 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.
 - 5.20.11.2. Coordinate with Air Staff to achieve and maintain sustainable accession levels for officer and enlisted nuclear career fields.
 - 5.20.11.3. Review and provide program advice regarding KNBs IAW AFI 13-504, *Key Nuclear Billet (KNB) Program*.
 - 5.20.11.4. Evaluate and assess Air Force Nuclear Enterprise civilian billet lists.

- 5.20.11.5. Provide PRAP administrative qualification reviews and recommendations to gaining certifying officials.
 - 5.20.11.6. Provide expert procedural and operational guidance for management of nuclear weapons PRAP.
 - 5.20.11.7. Provide ad hoc and recurring personnel data retrieval and analysis services (including metrics initiatives) consistent with customer needs and other requirements.
 - 5.20.11.8. Manage the Developmental Education Designation Board (DEDB) process for officers and federal civilians. Director, Nuclear Integration will serve as an adjunct member of, and advisor to, the DEDB for nuclear-related fellowships and academic programs.
 - 5.20.11.9. Provide support to Air Force Nuclear Enterprise civilian, officer, and enlisted career field managers for human capital initiatives and restructure efforts.
 - 5.20.11.10. Provide civilian classification and staffing action support for Air Force Nuclear Enterprise civilian positions.
 - 5.20.11.11. Support civilian, officer, and enlisted DT meetings to fulfill career field management objectives.
 - 5.20.11.12. Adjust officer and enlisted classification directories in coordination with career field managers.
 - 5.20.11.13. Monitor non-rated Line of the Air Force officer classification model results, ensuring Air Force Nuclear Enterprise career fields are appropriately represented in the model outcomes based on Air Force needs, cadet quality measures, commission sources, and cadet preferences.
 - 5.20.11.14. As a key mission partner, attend and support all Air Force Nuclear Enterprise deep dives for civilian, officer, and enlisted nuclear career fields.
 - 5.20.11.15. Director, Nuclear Integration will serve as a member of the Air Force Nuclear Working Group.
 - 5.20.11.16. Director, Nuclear Integration and Superintendent, Nuclear Integration will serve on the NEAC.
 - 5.20.11.17. Appropriate officials will support the Nuclear Enterprise Human Capital Working Group.
 - 5.20.11.18. Director, Nuclear Integration will serve as a member of the Deterrence Education Task Force.
- 5.20.12. **Air Force Space Command (AFSPC)**. AFSPC provides resilient space and cyberspace capabilities to Joint warfighters. In coordination with AF/A10 and AFGSC, AFSPC will:
- 5.20.12.1. Advocate for national requirements inherent in ground and space-based missile warning systems including, but not limited to, ITW/AA systems, military satellite communications systems, and supporting infrastructure (e.g., survivable and enduring components and supporting communication links).

- 5.20.12.2. Advocate for AFSPC resources assigned to the nuclear mission and coordinate with AFGSC to prioritize NDO mission capabilities over a 30-year investment period and assess risk to the NDO portfolio within the CFSP development process.
- 5.20.12.3. 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.
- 5.20.12.4. Serve as a member on the Air Force NLCC/NC3 Oversight Council, Board, and Group and AFNOC.
- 5.20.12.5. Provide input on plans for professional development, career field management training, and education of NC3 practitioners.
- 5.20.12.6. Immediately notify Commander, AFGSC via the operational reporting process of any degrade(s) of any space or terrestrial system (e.g., ITW/AA, nuclear detonation detection package) that negatively impacts the Air Force Nuclear Enterprise.
- 5.20.12.7. Conduct and report on lifecycle planning, resource management, sustainment, maintenance status, and requirements for assigned NC3-related systems.
- 5.20.12.8. Provide annual master plans to correct NC3 shortfalls when requested by the AFNOC.
- 5.20.13. 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:
- 5.20.13.1. Provide air refueling, airlift, NC3, and PNAF capabilities in support of nuclear operations across the range of military operations.
- 5.20.13.2. Advocate for AMC resources assigned to the nuclear mission and coordinate with AFGSC to prioritize NDO capabilities over the 30-year investment period and assess risk to the NDO portfolio within the CFSP development process.
- 5.20.13.3. 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.
- 5.20.13.4. Serve as a member on the Air Force NLCC/NC3 Oversight Council, Board, and Group and AFNOC.
- 5.20.13.5. Serve as the Air Force lead command for SLC3S Airborne (SLC3S-A), a subset of the SLC3S consisting primarily of airlift aircraft, and coordinate with AFGSC on changes to NC3-related systems.
- 5.20.13.6. Advocate for SLC3S-A requirements having a direct association to the NC3 mission through the Air Force NLCC/NC3 Board and the NC3 Oversight Council.

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

5.20.13.8. Provide annual master plans to correct NC3 shortfalls when requested by the AFNOC.

5.20.14. Air Reserve Component (ARC).

5.20.14.1. National Guard Bureau. Provide a representative to serve as a voting member on the Air Force NLCC/NC3 Council, Board, and Group and AFNOC.

5.20.14.2. 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:

5.20.14.2.1. Provide input on matters of policy and procedures affecting the ANG federal mission in support of the Air Force Nuclear Enterprise.

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

5.20.14.3. Air Force Reserve Command (AFRC). AFRC will organize, train, and equip assigned combat-ready reserve forces to conduct strategic deterrence, C2, intelligence, surveillance, and reconnaissance, space, cyberspace, rapid global mobility, and agile combat support operations in support of CCDR requirements.

5.20.14.3.1. Support AFGSC as needed and assist in defining, assessing, and refining MAJCOM nuclear requirements and coordinating on operational topics, strategy development, and PPBE.

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

5.20.15. Pacific Air Forces (PACAF). PACAF provides air and space power to promote U.S. interests and extend deterrence of adversaries in the Asia-Pacific region. 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:

5.20.15.1. Support AFGSC as needed and assist in defining, assessing, and refining MAJCOM nuclear requirements and coordinating on operational topics, strategy development, and PPBE.

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

5.20.15.3. Support United States Pacific Command NC3 requirements and theater taskings for prioritization, lifecycle management, resources, and sustainment.

5.20.16. United States Air Forces in Europe (USAFE). USAFE is responsible to organize, train, equip, and present DCA forces to NATO in coordination with United States European Command (USEUCOM). Commander, USAFE serves as the Joint Force Commander to NATO. In coordination with AF/A10, USAFE will:

- 5.20.16.1. Provide compatible NC2 capabilities and NC3 systems in the USEUCOM theater for the Air Force Nuclear Enterprise in coordination with AFGSC and ACC.
- 5.20.16.2. Conduct WS3 maintenance functions.
- 5.20.16.3. Fulfill WS3 system sustainment mission requirements in the USEUCOM area of responsibility and integrate infrastructure, communications, and security systems support.
- 5.20.16.4. Provide C2 for nuclear accident/incident response in the area of responsibility through the RTF.
- 5.20.16.5. Enable robust, reliable, flexible, and survivable nuclear operations in support of U.S. national security requirements and international agreements.
- 5.20.16.6. Coordinate with ACC and AFGSC on Air Force CFSPs affecting the Air Force Nuclear Enterprise throughout the SP3.
- 5.20.16.7. Support AFGSC as needed and assist in defining, assessing, and refining MAJCOM nuclear requirements and coordinating on operational topics, strategy development, and PPBE.
- 5.20.16.8. Serve as a member on the Air Force NLCC/NC3 Oversight Council, Board, and Group and AFNOC.
- 5.20.16.9. Conduct and report on lifecycle planning, resource management, sustainment, maintenance status, and requirements for assigned NC3-related systems.
- 5.20.16.10. Provide annual master plans to correct NC3 shortfalls when requested by the AFNOC.

6. Implementing Publications.

- 6.1. AF/A10 develops and maintains specified AFIs (reference Attachment 1) to ensure standardization of nuclear operations across the Air Force.
- 6.2. Unless expressly prohibited, MAJCOMs, FOAs, and Direct Reporting Units may supplement AFIs. These supplements will not be less restrictive than AFIs. Forward proposed supplements to AF/A10 for coordination.

Heather Wilson
Secretary of the Air Force

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

DoDD 3150.01, *Joint DoD-Department Of Energy/National Nuclear Security Administration (DoD-DOE/NNSA) Nuclear Weapon Life-Cycle Activities*, 4 August 2016.

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Abbreviations and Acronyms

ACC—Air Combat Command

AETC—Air Education and Training Command

AFGSC—Air Force Global Strike Command

AFI—Air Force Instruction

AFIA—Air Force Inspection Agency

AFIMSC—Air Force Installation and Mission Support Center

AFMAN—Air Force Manual

AFMC—Air Force Materiel Command

AFNOC—Air Force Nuclear Operations Council

AFNWC—Air Force Nuclear Weapons Center

AFPC—Air Force Personnel Command

AFPD—Air Force Policy Directive

AFPEO—Air Force Program Executive Office

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
ARC—Air Reserve Component
AU—Air University
BSAT—Biological Select Agents and Toxins
CAF—Combat Air Force
C2—Command and Control
CBD—Chemical and Biological Defense
CBDP—Chemical and Biological Defense Program
CBRN—Chemical, Biological, Radiological and Nuclear
CCDR—Combatant Commander
CCMD—Combatant Command
CFL—Core Function Lead
CFSP—Core Function Support Plan
CIO—Chief Information Officer
CONOPS—Concept of Operations
CONUS—Continental United States
CSAF—Chief of Staff, United States Air Force
CSS—Central Security Service
CWMD—Countering Weapons of Mass Destruction
DCA—Dual Capable Aircraft
DEDB—Developmental Education Designation Board
DISA—Defense Information Systems Agency
DoD—Department of Defense
DoDD—Department of Defense Directive
DoDI—Department of Defense Instruction
DoDM—Department of Defense Manual
DOE—Department of Energy
DOS—Department of State
DRU—Direct Reporting Unit
DT—Development Team
DTRA—Defense Threat Reduction Agency
EA—Executive Agent

EMB—Executive Management Board
EMP—Electromagnetic Pulse
FA—Functional Authority
FCG—Foreign Clearance Guide
FCP—Foreign Clearance Program
FOA—Field Operating Agency
HAF—Headquarters Air Force
IAW—In Accordance With
ICBM—Intercontinental Ballistic Missile
IG—Inspector General
INRAD—Nuclear Weapons Intrinsic Radiation
ITW/AA—Integrated Tactical Warning and Attack Assessment
JCIDS—Joint Capabilities Integration and Development System
JS—Joint Staff
KNB—Key Nuclear Billets
MAJCOM—Major Command
MD—Mission Directive
NARP—*Nuclear Weapon Accident Response Procedures*
NATO—North Atlantic Treaty Organization
NC2—Nuclear Command and Control
NC3—Nuclear Command, Control, and Communications
NDO—Nuclear Deterrence Operations
NEAC—Nuclear Enterprise Action Committee
NEFA—Nuclear Enterprise Functional Authority
NIRI—Nuclear Issues Resolution and Integration Board
NLCC—National Leadership Communications Capability
NMCS—National Military Command System
NMM—Nuclear Materiel Management
NNSA—National Nuclear Security Administration
NOB—Nuclear Oversight Board
NSA—National Security Agency
NSI—Nuclear Security Inspection

NSS—National Security Space
NWC—Nuclear Weapons Council
NWG—Nuclear Working Group
NWSSG—Nuclear Weapons System Surety Group
OEH—*Occupational and Environmental Health*
OSD—Office of the Secretary of Defense
OT—Oversight Team
PACAF—Pacific Air Forces
PAD—Program Action Directive
PNAF—Prime Nuclear Airlift Forces
POTUS—President of the United States
PPBE—Planning, Programming, Budgeting, and Execution
PRA—Personnel Reliability Assurance
PRAP—Personnel Reliability Assurance Program
RegAF—Regular Air Force
RTF—Response Task Force
S&T—Science and Technology
SCF—Service Core Function
SecAF—Secretary of the Air Force
SecDef—Secretary of Defense
SLC3S—Senior Leader Command, Control, and Communications
SLC3S-A—Senior Leader Command, Control, and Communications – Airborne
SOH—Safety and Occupational Health
SP3—Strategic Planning and Programming Process
SSA—Support for Strategic Analysis
STS—Stockpile-to-Target Sequence
T&E—Test and Evaluation
U.S—United States
USAFE—United States Air Forces Europe
USC—United States Code
USecAF—Under Secretary of the Air Force
USEUCOM—United States European Command

USSTRATCOM—United States Strategic Command

USTRANSCOM—United States Transportation Command

WMD—Weapons of Mass Destruction

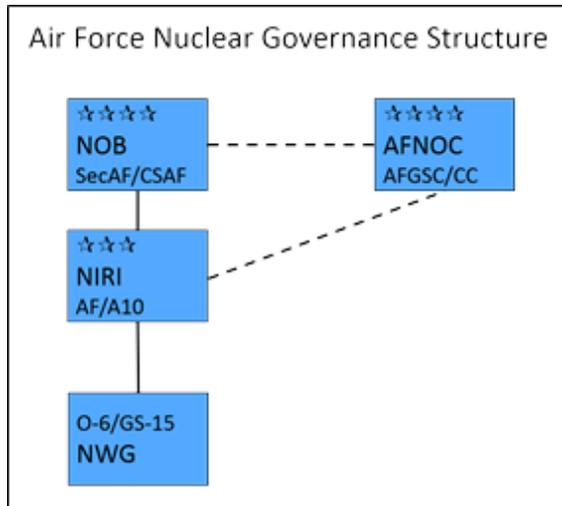
WS3—Weapons Storage and Security System

Attachment 2

AIR FORCE NUCLEAR ENTERPRISE GOVERNING BODIES

A2.1. Air Force Nuclear Enterprise Governance Structure. The major deliberative bodies of the Air Force Nuclear Enterprise Governance Structure (reference Figure A2.1.) include the Nuclear Oversight Board (NOB), Air Force Nuclear Operations Council (AFNOC), the Nuclear Issues Resolution and Integration (NIRI) Board, and the Nuclear Working Group (NWG).

Figure A2.1. Air Force Nuclear Governance Structure.



A2.2. Nuclear Oversight Board (NOB). Co-chaired by the SecAF and the CSAF and comprising MAJCOM commanders and other members as designated, the NOB provides senior-level executive oversight and strategic direction to the Air Force Nuclear Enterprise. The NOB is the primary forum for Air Force Nuclear Enterprise issues related to policy, national strategy implementation, organization, assessments, and strategic communications. The NOB resolves Air Force Nuclear Enterprise issues and ensures senior-level stewardship of the Air Force Nuclear Enterprise. AF/A10 will work with MAJCOM commanders and HAF two-letters to ensure all Air Force nuclear issues are brought forward for discussion and resolution.

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

- A2.2.1.1. Identify and vet potential issues and/or impacts on the Air Force Nuclear Enterprise 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 two times each calendar year or as directed by the SecAF or the CSAF. Meetings will be held in conjunction with CORONA or other four-star forums, when practical.

A2.2.3. NOB invitees are by name. If a named invitee is unable to attend, he/she may nominate a general officer or civilian equivalent for SecAF/CSAF approval. Once approved by the SecAF and the CSAF 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. Air Force Nuclear Operations Council (AFNOC). Commander, AFGSC chairs the AFNOC with support and input from Air Force Nuclear Enterprise MAJCOM and stakeholder members. The AFNOC chair provides updates and decisions to the SecAF and the CSAF via AFGSC's governance structure and, in conjunction with AF/A10, identifies Air Force Nuclear Enterprise concerns and issues. The AFNOC will accommodate CAF-related DCA for purposes of readiness, inspection, exercise, and resource adequacy assessments, and reporting.

A2.3.1. AF/A10 will coordinate with the AFNOC to ensure a synchronized approach to supporting the Air Force Nuclear Enterprise. AF/A10 will refer to the AFNOC for resolution of issues involving nuclear operations, readiness, inspections, and exercises. Commander, AFGSC will report resolution of such issues to the SecAF and the CSAF through the NOB.

A2.4. 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 Enterprise. The NIRI brings decision-quality issues to the NOB and AFNOC 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 supporting USSTRATCOM, and USAFE, as a Service component supporting USEUCOM, will brief the NIRI on issues affecting their areas of responsibility.

A2.4.1. The NIRI will address issues arising from Air Force Nuclear Enterprise assessments, nuclear-related boards, commissions, panels, task forces, or any similar groups, and oversee implementation of direction and guidance given by the SecAF and the CSAF.

A2.4.2. Guidelines.

A2.4.2.1. The NIRI will meet at least quarterly and as directed by AF/A10.

A2.4.2.2. On a case-by-case basis, AF/A10 may invite other USAF, DoD, or Interagency organizations as "special invitees." When attending, these organizations must be represented by a general officer or civilian equivalent.

A2.5. Nuclear Working Group (NWG). As the "action arm" of the NIRI, the NWG ensures execution of NOB and NIRI tasks and integrates actions from other Air Force Nuclear Enterprise governing bodies, as required. The z reviews, refines, and resolves issues or refers them for NIRI, AFNOC, or NOB consideration. The NWG provides O-6 level oversight of the Nuclear Enterprise Health Assessment prior to presentation to the NOB and NIRI. AF/A10 will designate an O-6 or GS-15 as the NWG Chair. The NWG comprises O-6s or civilian equivalents from across the Air Force Nuclear Enterprise. AF/A10 is responsible for maintaining a current list of NWG representatives.

A2.5.1. The NWG and Nuclear Enterprise Health Assessment working groups will assist AFGSC in accomplishing its role as the NDO CFL.