

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

AIR FORCE POLICY DIRECTIVE 91-1

30 NOVEMBER 2016



Safety

**NUCLEAR WEAPONS AND SYSTEMS
SURETY**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

ACCESSIBILITY: Publications and forms are available on the e-Publishing website at www.e-publishing.af.mil for downloading or ordering.

RELEASABILITY: There are no releasability restrictions on this publication.

OPR: AFSEC/SEW

Certified by: AF/SE
(Maj Gen Andrew M. Mueller)

Supersedes: AFPD, 13 December 2010

Pages: 4

This Directive implements Department of Defense Directive (DoDD) 3150.02, *Department of Defense Nuclear Weapons Surety Program*. It also establishes the Air Force Nuclear Surety Program. The potential destructive power of nuclear weapons is well known, and all radioactive materials pose hazards if not properly controlled. Nuclear systems require special handling and other protective measures to prevent accidents, unauthorized use, or dangerous exposure. This Directive provides policies for managing nuclear weapons and weapon systems, and for protecting personnel, property, and the environment from hazardous exposure to radioactive materials. These policies apply to all Air Force personnel, including the Air National Guard of the United States (i.e., the Air National Guard in Title 10 status), the Air Force Reserve, nuclear certified equipment, and facilities involved with nuclear weapons, nuclear weapon systems, radioactive materials-related programs, and nuclear systems certified software. Personnel involved with nuclear weapons, nuclear weapon systems, and radioactive materials are responsible for compliance. This publication may not be supplemented. Refer recommended changes and questions about this policy directive to the Office of Primary Responsibility using the AF Form 847, *Recommendation for Change of Publication*. Ensure all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual (AFMAN) 33-363, *Management of Records*, and disposed of in accordance with Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS).

SUMMARY OF CHANGES

Added AF/A10 coordination role with AF/SE. Added roles and responsibilities for AF/SG, SAF/AA, and SAF/AQ. Clarified the AF/SE's nuclear surety oversight role of nuclear weapons and weapon systems is throughout the Stockpile-To-Target Sequence. Also renumbered document to comply with AFI 33-360 formatting requirements.

1. Policy.

1.1. Nuclear Surety as defined in DoDD 3150.02, *DoD Nuclear Weapons Surety Program*, is the centerpiece of the Air Force Nuclear Enterprise. Air Force leaders at all levels will provide emphasis to ensure focus remains on nuclear surety. Priority will be to strengthen nuclear surety compliance in accordance with guidance contained in Air Force publications and technical orders.

1.2. The Air Force will ensure nuclear weapons and weapon systems receive special attention and consideration because of their political and military importance, their destructive power, and the potential consequences of an accident, unauthorized act, or public perception of such.

1.3. The Air Force will ensure that personnel, the environment, and property are protected from undue risk of damage or harm by maintaining risks as low as reasonably possible consistent with mission requirements. This policy applies to nuclear weapons, nuclear weapon systems, nuclear energy power and propulsion systems, and the life cycle of all terrestrial reactors. Also included are radioactive sources intended for missile or space use.

1.4. The Air Force will keep personnel exposures to intrinsic ionizing radiation from nuclear weapons as low as reasonably achievable (also known as ALARA) consistent with mission requirements.

1.5. The Air Force will establish and conduct programs to maintain surety of nuclear weapons and weapon systems in Air Force custody through the complete Stockpile-to-Target Sequence (STS). Additionally, the Air Force will ensure the safety and security of terrestrial reactors the Air Force owns or operates; all nuclear energy power and propulsion systems, and radioactive sources intended for missile or space use.

2. Roles and Responsibilities.

2.1. The Assistant Secretary of the Air Force, Installations, Environment and Energy (SAF/IE) will, in accordance with the HAF Mission Directive (HAFMD) 1-18, provide guidance, direction, and oversight of all matters pertaining to the formulation, review, and execution of policies, plans, programs, and budgets relative to environment, safety, occupational health, radiation safety, and radioactive materials management matters. SAF/IE coordination is required before this document is changed, reissued, or rescinded.

2.2. The Chief of Safety (AF/SE) will provide guidance, direction, and oversight of all matters pertaining to nuclear surety of all nuclear weapons and weapon systems in Air Force custody throughout the STS. AF/SE will, in accordance with Air Force Policy Directive (AFPD) 13-5, *Air Force Nuclear Enterprise*, coordinate with the Deputy Chief of Staff for Strategic Deterrence and Nuclear Integration (AF/A10) to develop and establish Air Force Nuclear Surety standards, guidance, training, planning, programs, and safety design certification of nuclear weapon systems and components.

2.3. The Surgeon General (AF/SG) and AF/SE will issue coordinated guidance on radiological health matters.

2.4. The Administrative Assistant to the Secretary of the Air Force (SAF/AA) is the Restricted Data/Formerly Restricted Data Management Official and provides oversight for accountability, training, and provision of accurate guidance for handling, safeguarding, protecting, or releasing nuclear-related information pursuant to Title 42 United States Code Section 2011 et seq. *Atomic Energy Act of 1954*; 10 CFR Part 1045, *Nuclear Classification and Declassification*; and Department of Defense Instruction (DoDI) 5210.02, *Access to and Dissemination of Restricted Data and Formerly Restricted Data*.

2.5. The Assistant Secretary of the Air Force, Acquisition (SAF/AQ) provides guidance, direction, and oversight of all matters pertaining to acquisition life cycle activities on Air Force nuclear weapons delivery systems and specific non-nuclear component/subsystems as described in DoDD 5000.01, *The Defense Acquisition System*, DoDI 5000.02, *Operation of the Defense Acquisition System*, AFPD 13-5, AFI 63-101/20-101, *Integrated Life Cycle Management*, and HAFMD 1-10, *Assistant Secretary of the Air Force (Acquisition)*.

Deborah Lee James
Secretary of the Air Force

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

DoDD 3150.02, *DoD Nuclear Weapons Surety Program*, 24 April 2013

DoDD 5000.01, *TheitectDefense Acquisition System*, 12 May 2003

DoDI 5000.02, *Operation of the Defense Acquisition System*, 7 January 2015

DoDI 5210.02, *Access to and Dissemination of Restricted Data and Formerly Restricted Data*, 3 June 2011

DoDI 6055.08, *Occupational Ionizing Radiation Protection Program*, 15 December 2009

HAFMD 1-10, *Assistant Secretary of the Air Force (Acquisition)*, 24 June 2014

HAFMD 1-18, *Assistance Secretary of the Air Force (Installations, Environment and Energy)*, 10 July 2014

AFI 63-101/20-101, *Integrated Life Cycle Management*, 7 March 2013

AFPD 13-5, *Air Force Nuclear Enterprise*, 6 July 2011

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

42 USC Section 2011 et.seq., *Atomic Energy Act of 1954*

10 CFR Part 1045, *Nuclear Classification and Declassification*, 1 January 2011

Adopted Form

AF Form 847, *Recommendation for Change of Publication*

Abbreviations and Acronyms

AF—Air Force

AFMAN—Air Force Manual

ALARA—As Low As Reasonably Achievable

DoD—Department of Defense

DoDD—Department of Defense Directive

DoDI—Department of Defense Instruction

HAFMD—HQ Air Force Mission Directive

OPR—Office of Primary Responsibility

STS—Stockpile-To-Target Sequence