

**BY ORDER OF THE COMMANDER
SPANGDAHLEM AB (USAFE)**

**SPANGDAHLEM AIR BASE
INSTRUCTION**



91-101

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Safety

NUCLEAR SURETY STANDARDS

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements Air Force Policy Directives (AFPD) 91-1, *Nuclear Weapons and Systems Surety*, AFPD 91-2, *Safety Programs*, DESR 6055.09_DAFMAN 91-201, *Explosives Safety Standards* and Department of the Air Force Instruction (DAFI) 91-202, *The US Air Force Mishap Prevention Program* and DAFI 91-101, *Air Force Nuclear Weapons Surety Program*. The purpose of this instruction is to ensure safety and surety standards are adhered to for conditions unique to Spangdahlem Air Base (SAB) and its Geographically Separated Units (GSUs). This instruction establishes a central source for managing nuclear surety in a manner consistent with established standards. It outlines Nuclear Surety program management for the Munitions Support Squadrons (MUNSS). Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Instruction (AFI) 33-322, *Records Management and Information Governance Program*, and disposed of in accordance with Air Force Records Information Management System (AFRIMS) Disposition Schedule (RDS). Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the DAF Form 847, *Recommendation for Change of Publication*; route DAF Forms 847 through appropriate chain of command. 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 DAFI 90-160, *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 Publication OPR for non-tiered compliance items.

SUMMARY OF CHANGES

This document has been substantially revised and must be completely reviewed. Major changes include removing outdated/non-applicable guidance, adding additional guidance in accordance with USAFE-AFAFRICA guidance and clarifying unit responsibilities.

1. Program Overview

1.1. The purpose of 52 FW Weapons Safety (SEW) weapons surety program is to ensure safe working environments and prevent injuries and/or mishaps.

1.1.1. Nuclear Surety Programs are located on the 52 FW/SEW SharePoint Page at: <https://usaf.dps.mil/sites/52fw/se/sew/sitepages/main.aspx>

2. Responsibilities

2.1. MUNSS/CC Responsibilities.

2.1.1. Appoint at least two Unit Safety Representative (USR) personnel to conduct Additional Duty Weapons Safety Representative (ADWSR) and nuclear surety duties, consisting of at least one (1) 21M officer and one (1) 2WXXX Noncommissioned Officer (NCO).

2.2. MUNSS Unit Safety Representative Responsibilities.

2.2.1. Schedule and complete training from 52 FW/SEW within 30 days of appointment.

2.2.2. Ensure surety training is completed, documented, and tracked for required unit individuals.

2.2.2.1. Annually review the Installations Explosive Location Map (E-12) and provide changes and corrections to 52 FW/SEW. Review must be documented in memorandum format and coordinated with USR; Deputy Officer and Host Nation/SEW equivalent.

2.2.2.2. Gather required information from the host nation and coordinate E-12 explosive map updates with 52 FW/SEW and Base Civil Engineering.

2.2.3. Monitor new or proposed construction projects from the host nation. Ensure information on construction projects is delivered to the Wing Weapons Safety Office in a timely matter.

2.2.4. Review the unit's AF Form 2047, *Explosives Facility License(s)* annually for continued requirement and applicability. USRs/ADWSRs will document all reviews using signed Memo for Record (MFR) format. Maintain signed MFRs with the current/approved AF Form 2047.

2.2.5. Ensure compliance and provide oversight of host nation activities concerning Lightning Protection System requirements IAW AFMAN32-1065_USAFEAFRICASUP, *Grounding & Electrical Systems*.

2.2.6. Coordinate with the Host Nation, unit Communications Flight, and all applicable users of any known emitter changes on the installation.

2.2.7. Brief and interface with Unit Commanders concerning their responsibilities IAW DAFI 91-101, *USAFE-AFAFRICASUP*, paragraph 2.28.

2.2.8. Provide oversight and facilitate said responsibilities. MUNSS USRs perform a unique mission and must directly interface with the Commander regularly to ensure mission success and uphold nuclear surety standards.

2.2.9. Provide oversight into management of the unit Nuclear Certified Equipment (NCE), Lightning Protection (LPS) System, and Dual-Capable Aircraft Seal programs.

2.2.10. Provide oversight for training courses relevant to the management of the weapons safety program (ex. LPS Monitor training requirements IAW AFMAN32- 1065_ *USAFE-AFAFRICASUP*).

2.3. MUNSS USR Delegated Responsibilities.

2.3.1. In accordance with DAFI91-101, *USAFE-AFAFRICASUP*, para 2.13.6. specific Weapons Safety Manager (WSM) responsibilities are authorized to be delegated to the MUNSS USRs to best meet nuclear surety and safety requirements. The following responsibilities are delegated to MUNSS Safety offices:

2.3.2. Conduct and/or assist in nuclear safety reporting as prescribed in DAFI 91-204, *Safety Investigations and Reports* and DAFMAN 91-221, *Weapons Safety Investigations and Reports*, to include safety reporting of NCE located in both nuclear and non-nuclear units. Units will utilize USAFE-AFAFRICA Form 1115, *Potential Dull Sword Worksheet* to report any Potential Dull Swords within 2 calendar days of event discovery unless otherwise directed by 52FW/SEW.

2.3.3. Review and disseminate information from nuclear mishap and deficiency reports.

2.3.4. Keep the unit commander, staff, and supervisors informed of issues and changes in the nuclear surety program.

2.3.5. Prior to operations, attend all planning meetings, review site plans, verify the Hazards of Electromagnetic Radiation to Ordnance (HERO) environment, and brief the commander on any safety concerns before the operations.

2.3.6. Participate in preparation of Safe Haven and Primary Nuclear Airlift Force (PNAF) mission support plans.

2.3.7. Attend PNAF meetings, review site plans, verify the HERO environment, and brief the commander on any safety concerns before the mission.

2.3.8. Perform spot inspections of areas involved with nuclear surety and emphasize nuclear surety culture. All spot inspections will be documented using the Air Force Safety Automated System (AFSAS). Contact 52 FW SEW/SEG to gain AFSAS access. Nuclear surety concerns discovered will be briefed to the Commander. Nuclear surety spot inspections will be specified as such in the inspection one-liner narrative (ex. (NUC) or comparable verbiage at the beginning of the one-liner.)

2.3.9. Develop localized specific training, as applicable, and incorporate into the standardized nuclear weapons surety training lesson plan. Additional training should be inserted into the appropriate section to ensure proper flow of lesson objectives. Specific training above the mandatory requirements may be added at the end of the lesson plan. Spot checks of training sessions shall be performed periodically IAW DAFI 91-202.

2.3.10. Coordinate locally added additions to the AFSEC nuclear surety training plan with 52 FW/SEW for approval prior to implementation.

2.3.11. Review all locally developed checklists, instructions, operating procedures, and plans impacting nuclear surety. For locally developed work cards, checklists, job guides, and page supplements for nuclear munitions follow guidance in TO 00-5-1, *AF Technical Order System*.

2.3.12. Document reviews initially and annually thereafter unless more stringent criteria exist. Initial reviews will be routed through all applicable agencies and documented using DAF Form 673, *Department of the Air Force Publication/Form Action Request*. Maintain locally developed spreadsheet/list for validation of review documentation.

2.3.13. Ensure currency/completeness of Electromagnetic Radiation surveys IAW DAFI 91-208, *Hazards of Electromagnetic Radiation to Ordnance (HERO) Certification and Management*.

2.3.14. Verify the Hazards of Electromagnetic Radiation to Ordnance (HERO) environment at least quarterly.

2.3.14.1. Develop and maintain a visual guide/picture slideshow and map that tracks emitters on the installation that impact munition operations to include that primary and alternate explosive routes, to assist with program continuity.

2.3.15. Ensure compliance with Two-Person Concept in accordance DAFI 91-101, Chapter 5.

2.3.16. Ensure compliance with safety requirements and precautions regarding weapons handling, assembly, maintenance, storage operations, and logistics movements.

2.3.17. Ensure compliance with nuclear weapons system safety rules and safety practices.

2.3.18. Ensure nuclear certified equipment monitors are thoroughly trained in accordance with DAFI 63-125, *USAFE-AFAFRICA Supplement* to identify nuclear certified equipment within the unit; use the Master Nuclear Certification List to identify and report deficiencies in accordance with DAFMAN 91-221.

2.3.19. Observe at least one technical operation (WR or training) per quarter to ensure compliance with Paragraphs 2.3.16, 2.3.17, 2.3.18, 2.3.19..

2.3.20. Responsibilities not delegated in this instruction will be accomplished by the 52 FW/SEW office.

2.4. Unit Safety Representative Program Management.

2.4.1. The 52 FW/SEW SharePoint page will be the primary location for maintaining nuclear surety program documentation IAW 52 FW/SEW guidance.

2.4.2. Unless otherwise directed, at minimum units will upload the following to the 52FW/SEW SharePoint:

2.4.2.1. ADWSR(s) appointment letter(s), nuclear surety training instructors and Nuclear Certified Equipment (NCE) monitors. Include respective training documentation.

2.4.2.2. AF Form 2047, *Explosive Facility License(s)* and annual review documentation.

2.4.2.3. E-12 Maps and the respective annual review documentation.

2.4.2.4. Nuclear certified equipment listings, verifications, and host nation documentation.

2.4.2.5. HERO surveys and supporting documentation.

2.4.2.6. Additional documentation as directed by 52 FW/SEW.

WILLIAM D. LUTMER, Col, USAF
Commander, 52d Fighter Wing

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

AFI33-322, *Management of Records*, 1 March 2008, and USAFESUP, 26 June 2025

AFMAN 32-1065, *Grounding & Electrical Systems*, 17 July 2020

DAFI 91-202, *Department of the Air Force Mishap Prevention Program*, 10 April 2024

DAFI 91-208, *Hazards of Electromagnetic Radiation to Ordnance (HERO) Certification and Management*, 17 June 2025

DAFMAN 91-221, *Weapons Safety Investigations and Reports*, 12 September 2024

AFPD 91-1, *Nuclear Weapons and Systems Surety*, 24 October 2019

AFPD 91-2, *Safety Programs*, 25 June 2024

DAFI 91-101, *Air Force Nuclear Weapons Surety Program*, 26 March 2020 and USAFESUP, 16 July 2025

DAFI 91-204, *Safety Investigations and Reports*, 10 March 2021

DESR 6055.09_DAFMAN91-201, *Explosive Safety Standards*, 18 June 2025

T.O. 00-5-1, *AF Technical Order System*, 15 February 2019

Prescribed Forms

USAFE-AFAFRICA Form 1115, *Potential Dull Sword Worksheet*

Adopted Forms

DAF Form 673, *Department of Air Force Publication/Form Action Request*

DAF Form 847, *Recommendation for Change of Publication*

Abbreviations and Acronyms

ADWSR—Additional Duty Weapons Safety Representative

DAFI—Department of Air Force Instruction

DAFMAN—Department of Air Force Manual

AFPD—Air Force Policy Directives

AFRIMS—Air Force Records Information Management System

AFSAS—Air Force Safety Automated System

AFSEC—Air Force Safety Center

CC—Commander

DESR—Defense Explosives Safety Regulation

FW—Fighter Wing

GSU—Geographically Separated Unit

HERO—Hazards of Electromagnetic Radiation to Ordnance

IAW—In Accordance With

MAJCOM—Major Command

MMG—Munitions Maintenance Group

MUNSS—Munitions Support Squadron

NCE—Nuclear Certified Equipment

OPR—Office of Primary Responsibility

RDS—Records Disposition Schedule

SAB—Spangdahlem Air Base

SE—Safety

SEW—Weapons Safety

TO—Technical Order

SAFE—United States Air Forces in Europe

USR—Unit Safety Representative

WR—War Reserve

WSM—Weapons Safety Manager