

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



**AIR FORCE INSTRUCTION 91-103**

**AIR FORCE MATERIAL COMMAND**

**Supplement 1**

**14 SEPTEMBER 1995**

**Safety**

**AIR FORCE NUCLEAR SAFETY  
CERTIFICATION PROGRAM**

**"HOLDOVER"**

***"The basic publication has changed; impact on supplemental information is under review by the OPR. Users should follow supplemental information that remains unaffected."***

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

---

**NOTICE:** This publication is available digitally on the AFDPO WWW site at:  
<http://www.e-publishing.af.mil>

---

OPR: HQ AFMC/SEW (Mr. Johnny S. Davis)

Certified by: HQ AFMC/SEW  
(Mr. Johnny S. Davis)

Pages: 3

Distribution: F

---

**AFI 91-103, 11 February 1994, is supplemented as follows:**

This supplement applies to all AFMC organizations and Air Force associate units with safety staffs and personnel located on AFMC and non-AFMC installations. Send suggested changes to this supplement to the Weapons Safety Division, HQ AFMC/SEW, 4375 Chidlaw Rd., Suite 6, Wright-Patterson AFB OH 45433-5006. This supplement does not apply to the Air National Guard or US Air Force Reserve units and members.

2. The objective of evaluations and reviews of delivery vehicles, equipment, software, and procedures is to ensure a sufficient level of safety and appropriate safety features are designed into the various parts of the nuclear weapon systems as well as prevent accidents and incidents during operational use. The certification process assures all aspects of safety are evaluated so these parts can function safely together as a nuclear weapon system to accomplish the operational mission.

3.3. Air Force Materiel Command.

- **First Bullet.** This supplement outlines AFMC's nuclear safety certification program.

- **Second Bullet.** HQ AFMC/SEW manages the nuclear safety certification program for the command. Each system program office (SPO), or single managers at the product centers and air logistics centers that have program management responsibility for nuclear weapon system, hardware, software will designate a nuclear surety manager or obtain support from the center/wing safety office to manage the nuclear surety

program. The weapons safety manager (WSM) has management responsibility for the program at the center/wing/unit level.

- **Fourth Bullet.** Nuclear surety evaluations (NSE) are the responsibility of the developing agency for hardware, software, and procedures. NSEs must be coordinated through the center/wing weapons safety office and forwarded to HQ AFSA/SEWA with a copy to SA-ALC/NWI (independent review agency). If tasked by HQ AFSA/SEWA, SA-ALC/NWI will perform the independent evaluation or assessment according to the basic instruction, paragraph 7.

- **Fifth Bullet.** Nuclear surety impact statement (NSIS) are prepared by center/wing and program executive officer (PEO) and designated acquisition commander (DAC) programs offices, single managers, etc., and submitted to SA-ALC/NWI for evaluation. HQ AFSA/SEWA evaluates and approves the NSIS proposed certification approach. NSIS should be coordinated with weapons safety manager or center/wing/DAC safety personnel.

- **Seventh Bullet.** Unauthorized launch (UL) studies will be prepared by the developing agency with program management responsibility of nuclear weapon system. Distribution will be according to AFI 91-106, *Unauthorized Launch and Launch Action Studies* (formerly AFR 122-6).

- **Eighth Bullet.** SA-ALC/MWI will support the development and evaluation process for tamper detection indicators (TDI).

- **Ninth Bullet.** Operational certification (OPCERT) and decertification (DECERT) procedures are developed by the developing agency that manages the particular nuclear weapon system/component. Send copies of the OPCERT and DECERT procedures to HQ AFSA/SEWA and SA-ALC/NWI.

- **Twelfth Bullet.** The developing agency with technical and logistical support responsibility for the system/equipment in question reviews nuclear deficiencies (material deficiencies reports, service bulletins, and DULL SWORD reports) for possible impact on nuclear surety or certification status and implements required corrective action. SA-ALC/NWI will assist HQ AFSA/SEWA and the developing agency in resolving any specific nuclear surety concern and ensure corrective action is taken when required.

- **Thirteenth Bullet.** SA-ALC/NWI will evaluate support equipment provided by other DoD agencies for use with Air Force procedures.

- **Fourteenth Bullet.** SA-ALC/NWI evaluates Air Force use of Department of Energy (DOE)-certified equipment.

7.1. The SPO, single manager, etc., identifies hardware and software that may require nuclear safety design certification. The list of equipment identified as requiring certification will be coordinated with HQ AFSA/SEWA and SA-ALC/NWI.

7.2. The SPO, single manager, etc., will develop nuclear certification plans (NCP) for system/component in question. Send copies to HQ AFSA/SEWA for approval and to SA-ALC/NWI for independent review. Also, a copy of NCP should be sent to HQ AFMC/SEW.

7.3.1. The SPO, single manager, etc., will develop NSISs for system/component in question. Send copies to HQ AFSA/SEWA for approval and to SA-ALC/NWI for independent review. Also, a copy of NSIS should be sent to HQ AFMC/SEW.

7.4.

- **First Bullet.** The developing agency incorporates nuclear surety design requirements into development contract and ensures compliance with nuclear criteria, reflected in AFI 91-107, *Design, Evaluation Troubleshooting, and Maintenance Criteria for Nuclear Weapon Systems*.

- **Third Bullet.** The SPO, single manager, etc., will develop NSEs for system/component in question. Send copies to HQ AFSA/SEWA and to HQ AFMC/SEW. Send a copy to SA-ALC/NWI for independent review.

7.5. The SPO, single manager, etc., will send the NSE and certification recommendation to HQ AFSA/SEWA. A copy will also be sent to SA-ALC/NWI for an independent review.

7.6. SA-ALC/NWI is the designated review agency to perform an independent review for AFMC.

8.1. The SPO, single manager, etc., will develop and review procedures for consistency and safety.

9. The developing agency will perform tasks identified in basic instruction, paragraph **9**.

10.1. The developing agency will perform tasks identified in basic instruction, paragraph **10.1**. Coordinate actions with SA-ALC/NWI.

10.5. The technical requirements and the NSE for TDI requirements of the specific system/component will be provided by the developing agency.

11. The developing agency will perform tasks identified in basic instruction, paragraphs 11.1 and 11.2.

13.1. The developing agency will perform NSE for facility lifting/suspension system.

PAUL M. GUTTMAN, Colonel, USAF  
Director of Safety