



**AIR FORCE NUCLEAR WEAPONS SURETY  
PROGRAM**

**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 AMC/SEW (Mr. Ron Chase)  
Supersedes AFI 91-101 AMCS 1, 31 May 2001

Certified by: HQ AMC/SEW (Mr. Dennis Green)  
Pages: 10  
Distribution: F

---

**AFI 91-101, 24 February 2000**, is supplemented as follows. This publication applies to Air Mobility Command commanders, managers, supervisors, Safety staffs, base support staffs, aircrew, and workers associated with the transport of nuclear weapons and related components. This supplement does not apply to Air National Guard or US Air Force Reserve units. **The OPR for this supplement is HQ AMC/SEW (Mr. Ron Chase).** The reporting requirements in this supplement are exempt from licensing in accordance with paragraph 2.11.12, AFI 37-124, *The Information Collections and Reports Management Program; Controlling Internal, Public, and Interagency Air Force Collections.*)

**SUMMARY OF REVISIONS**

This change incorporates interim change (IC) 2002-1.

Deletes paragraph 2.16.4. in its entirety. A “[” indicates revised material since the last edition.

**1.1. AMC Nuclear Surety Goal.** The goal of the Air Mobility Command (AMC) Nuclear Surety Program is to ensure the safety and security of nuclear weapons while in the air transportation system and accomplishment of the special mission without incident. This goal is accomplished by a network of MAJ-COM, NAF, and wing people combined with support from other DoD organizations. The NSM must work closely, in staffing issues of joint concern, with the wing weapons safety manager. These functions should combine efforts involving site planning, operational instructions and mishap reporting.

**1.3. Commander’s Emphasis.** Officers being assigned to command a unit with a nuclear airlift mission or one that provides support to a nuclear mission are required to attend the command’s Nuclear Surety Orientation Course (NSOC) after completing the AMC Pre-Command course. OPR for the NSOC is HQ AMC/SEW. See specific details of the course are addressed in the AMC/DPA Pre-Command course announcement message.

1.3.2. If issued for exercises, ensure personnel remove “fishtail” style protective overboots. These boots have a tendency to become untied and create a tripping hazard.

1.3.4. The Nuclear Surety Manager at a nuclear support base will ensure the Operational Support Squadron is aware of these requirements.

2.3.1. HQ AMC/SEW is responsible for the command’s nuclear surety program.

2.3.3. Appropriate HQ AMC staff functions ensure formal and proficiency training includes functional tasks related to AMC nuclear operations.

2.3.3.9. (Added) Nuclear Airlift operations.

2.3.3.10. (Added) Cross-loading of nuclear and nuclear-related cargo.

2.3.3.11. (Added) Maintaining nuclear certified equipment and vehicles.

2.3.5.2. Civil engineer readiness personnel assist the Disaster Control Group (DCG).

2.3.7. HQ AMC OPR is LGA, and DOO.

2.3.8. HQ AMC OPR is IGI.

2.3.9. HQ AMC staff functions supporting the headquarters Nuclear Surety Working Group (NSWG) also support USAF Nuclear Weapons System Safety Group (NWSSG) activities, as required.

2.3.10. The diversity of the nuclear airlift mission requires a team of functional staff support. Listed below is the AMC POCs for nuclear issues:

<u>STAFF FUNCTION</u>	<u>RESPONSIBILITY</u>
CEX	EOD, FIRE PREVENTION, DISASTER PREPARDNESS
DPF	PERSONNEL RELIABILITY PROGRAM (PRP)
DOO	PNAF OPERATIONS
LGA	AIRCRAFT SELECTION and MAINTENANCE
LGT	VEHICLE MAINTENANCE and OPERATIONS
SEW	NUCLEAR SURETY PROGRAM
SFO	INSTALLATION SECURITY
SGP	MEDICAL AND PRP
TACC	AIRLIFT MISSION SCHEDULING

2.3.11. (Added) HQ AMC NSWG is supported by action officers from staff functions with responsibility for AMC nuclear airlift operations. The staff functions are CE, DO, DP, IG, LG, SE, SG, SF, and TACC. HQ AMC/SEW or designated representative is the Group’s chairperson. The NSWG meets regularly to address the command’s Nuclear Surety Program and PNAF operations. Responsibilities of Group members are:

2.3.11.1. (Added) Assist in developing Nuclear Surety policy and procedures.

2.3.11.2. (Added) Present a briefing at each Nuclear Surety Orientation Course (NSOC). The NSOC is held in conjunction with the Pre-command course. The staff briefings provide new commanders with an understanding of nuclear surety functional requirements and responsibilities.

2.3.11.3. (Added) Develop and maintain checklists for the NSAV program. HQ AMC/SEW maintains a master copy of checklists, prepares a checklist index, and distributes documents as required.

2.3.11.4. (Added) Provide functional expertise for nuclear airlift operations and support requirements.

2.3.11.5. (Added) Serve as a member of the MAJCOM NSAV team.

2.3.11.6. (Added) Support USAF NWSSG activities, as required.

2.3.12. (Added) HQ AMC Nuclear Surety Steering Committee (NSSC). The Committee consists of senior officers from the same staff functions represented in the NSWG. HQ AMC/SE is the Chairperson when AMC/CV is not in attendance. The Committee will meet when directed by AMC/CV or if requested by the director of a staff function. The NSSC meets when leadership attention/involvement is needed to direct MAJCOM-level action with respect to the Nuclear Surety Program and PNAF operations.

2.3.13. (Added) HQ AMC/LGA and DOO assist in verifying aircraft technical orders related to nuclear airlift operations.

2.3.14. (Added) DTRA Inspection reports. Each level of command (wing, NAF, and HQ AMC) has 30 calendar days for submitting a response to the next level of command or AFSC/SEW. The wing response is signed by the commander or vice-commander and forwarded to the NAF/SE for review, staffing, and concurrence of the commander or designated representative. Send the NAF response to HQ AMC/SE.

2.4.1. Nuclear surety program OPR is HQ AMC/SEW (Weapons Safety Division). Address is 510 POW-MIA Dr., Bldg. P-40E, Rm. E-120, Scott AFB IL, 62225-5020. The Division can be contacted @ DSN 779-0950 or commercial 618-229-0950. Other related phone numbers are: FAX - extension 0232 and STU III - extension 0234. E-mail address is <mailto:AMC-SEW@scott.af.mil>.

2.4.7. The wing Nuclear Surety Manager (NSM) may be trained by either a MAJCOM or NAF weapons safety representative. A command-developed plan is used for this training.

2.4.8. Use command-to-command agreements, as appropriate, to identify host command support requirements for PNAF missions.

2.4.10. (Added) Manages the Nuclear Surety Staff Assistance visit (NSAV) program and obtains funds for team travel. An NSAV is accomplished on an 18-month cycle at the request of the wing commander, with a nuclear mission or Personnel Reliability Program. The wing commander provides his written request to HQ AMC/SEW. The NSAV provides a method for ensuring the integrity of the nuclear surety program and PNAF operations. Visits dates are coordinated with the AMC/IG gatekeeper in accordance with AFI 90-201. Staff functions not assigned to the NSWG support the NSAV team on an as required basis.

2.4.11. (Added) Manages the command's Nuclear Surety Orientation course (NSOC).

2.4.12. (Added) Acts as MAJCOM-appointed Corrective Action Report Status (CARS) program monitor IAW AFI 90-201, paragraph 3.8. Reviews reports submitted in accordance with AFI 91-204, AFI 90-201, and AMCI 90-201 for compliance and completeness of corrective actions. Staff reports with HQ AMC staff functions, as appropriate. Responses to IG or DTRA inspection reports are processed in accordance with AFI 90-201, AMCI 90-201, and instructions in the report cover letter.

2.5.2. Train the wing NSM. See paragraph [2.4.7](#).

2.5.3. Purpose of the visit determines whether only the Safety staff or several staff functions visit a unit.

2.5.5. Process responses to AMC/IG and DTRA inspection reports in accordance with AFI 90-201, AMCI 90-201, and paragraph **2.4.11. (Added)** of this supplement.

2.5.8. (Added) The commander appoints a nuclear surety program monitor (NSPM). The NSPM may be from any safety discipline; however, some weapons safety or nuclear airlift experience is desirable. Advise HQ AMC/SEW of the individual's name and date assigned nuclear duties.

2.6.12. (Added) Ensure the Nuclear Surety Program manager is not assigned additional tasks, which detract from program duties and responsibilities.

2.6.13. (Added) The commander of a unit with a nuclear mission or Personnel Reliability Program should request an NSAV every 18 months.

**2.7.** The following subparagraphs pertain to a PNAF wing and nuclear support bases.

2.7.5. Civil Engineering will ensure that actions are taken to:

2.7.5.5. Ensure planning for disaster response to incidents involving radiological materials is included in the Disaster Preparedness Operations Plan and DCG/DRF personnel are trained IAW AFI 32-4001.

2.7.5.6. Ensure EOD team personnel maintain the required nuclear support capabilities. The key to providing this capability will be a sound training program and having the necessary resources to perform this critical mission. AMC EOD units will be tasked with one of the following defined missions: Direct Support Unit (Full Capability Nuclear Support). Unit personnel are assigned in PRP positions. Personnel are trained to perform all necessary EOD actions from site stabilization to site recovery. Indirect Support Unit (Emergency Nuclear Support). Unit personnel maintain technical data and are trained to perform those actions necessary to stabilize an incident site. Unit personnel are not normally on PRP but can perform initial evaluation of an accident/incident and emergency render safe procedures.

2.7.6.4. (Added) Follow procedures outlined in AFI 31-101 and DoD Manual 5210.41M, *Nuclear Security Manual*, Air force and AMC Supplements, in support of nuclear security operations.

2.7.6.4.1. (Added) Ensure personnel who are certified under PRP IAW AFI 36-2104 annually complete nuclear surety training and successfully complete the end-of-training examination.

2.7.7. Vehicle Operations/Maintenance will inform the Wing Nuclear Surety Manager of potential DULL SWORD conditions on nuclear-certified equipment. See AFI 91-204.

2.7.9. (Added) Military Equal Opportunity personnel support PRP requirements.

2.7.10. (Added) Command Post will:

2.7.10.1. (Added) Write Operating Instructions (OI) and/or Quick Reaction Checklists (QRC) IAW AMCI 10-202, Vol. 2, AMC Command and Control (C2) Responsibilities and Procedures.

2.7.10.2. (Added) Ensure controllers coordinate and document required actions IAW AMC, Air Force, and JCS directives. Disseminate appropriate OPREP-3 reports, as applicable.

2.7.10.3. (Added) Ensure command and control facilities possess base regulations/plans to support nuclear support operations.

2.7.10.4. (Added) Ensure controllers are trained and knowledgeable in nuclear-support operations.

2.7.10.5. (Added) Ensure compliance with NSI criteria. See AFI 90-201.

2.7.10.6. (Added) Emphasize the importance of monitoring communications security (COMSEC) to avoid compromise and mission degradation.

2.8.4. (Added) Ensure personnel who are certified under PRP IAW AFI 36-2104 annually complete nuclear surety training and successfully pass the end-of-training examination.

2.8.5. (Added) Ensure aircraft generation squadrons at a PNAF wing and primary nuclear airlift support bases comply with aircraft generation and selection procedures in AFI 11-299.

2.8.6. (Added) Protect classified information to avoid mission compromise. Adhere to AFI 31-401, Information Security; AFI 10-1101, Operations Security; AFI33-211, Communications Security; and Nuclear Weapons Security Classification Guide.

2.8.7. (Added) Appoint a unit nuclear surety representative (UNSR) to oversee the program.

2.8.8. (Added) Emphasize the importance of monitoring communications security (COMSEC) to avoid a compromise of information and mission degradation.

2.8.9. (Added) Prepare operating instructions regarding the nuclear mission, as appropriate.

2.9.4. Inform them of changes to PRP, Two-Person Concept, weapons security, and nuclear weapons system safety rules.

**2.10.** The individual is the most important part of the nuclear surety program. Individuals must be technically competent, understand the nuclear surety aspects of their jobs, and be positively motivated and reliable.

**2.11.** The Nuclear Surety Manager (NSM) is the commander's personal representative and the single point of contact regarding nuclear surety matters. The NSM is a coordinator and advisor to the commander and staff on nuclear surety matters. The NSM's primary responsibility of mishap prevention demands active and aggressive involvement in the daily operation of the unit. The NSM must identify programmatic, procedural or equipment problems to the responsible functional manager for resolution and assist with corrective actions, as appropriate. If a problem is significant or resolution does not appear to be timely and effective, inform the commander. The NSM at a PNAF wing or nuclear support wing is assigned to a funded position earned by application of the Air Force Manpower Standard (AFMS) for Weapons Safety and associated variance for nuclear surety. **NOTE:** The NSM can be, a PNAF Aircraft Commander, PNAF Courier, or PNAF instructor loadmaster or a weapons safety manager knowledgeable of PNAF procedures. Changing the category (example: civilian, enlisted, officer) of a funded authorization is a wing option.

2.11.1.1. (Added) Since the NSM can not be expected to be an expert in all inspected areas consider using other knowledgeable people from the wing, squadron, etc. to assist in the inspection.

2.11.1.2. (Added) The NSM may inspect all functions in one effort or space the inspections throughout a 12-month period. If the NSM inspects all functions in one effort, the inspection should not be completed during the 90-day period following the MAJCOM NSI.

2.11.1.3. (Added) Document an annual NSI in letter format including type of inspection, date, functional area inspected, key personnel contacted/interviewed, findings, observations and recommended corrective actions (if appropriate). Route reports through the Chief of Safety and the wing commander to the unit commander. Track open inspection findings until closeout. Require timely status reports on open findings.

2.11.1.4. (Added) The unit annual nuclear surety inspection may be combined with other safety inspections required by AFI 91-202.

2.11.2. Use inspection reports from other units to improve your program. Cross-tell the information to appropriate wing units.

2.11.4. Review Special Airlift Mission Report (SAAMREPs) reports for nuclear surety related issues including DULL SWORD reports applicable to the wing and changes to nuclear weapon system safety rules.

2.11.6.1. (Added) Accompany the MPF PRP monitor periodically on visits to staff agencies (Military Equal Opportunity, medical and dental facilities, etc.) involved with PRP. When the NSM accompanies the MPF PRP monitor on a visit, it may be used to meet the requirements of the PRP portion of the unit annual nuclear surety inspection.

2.11.11. The review includes a periodic observation of training sessions and the lesson plan test conducted at the squadron level. HQ AMC/SEW is the approval authority for lesson plans and test.

2.11.15. (Added) Ensure subordinate units are aware of nuclear-certified equipment identified in TO 00-110N-16, USAF Nuclear Certified Equipment and Software, and comply with deficiency reporting requirements in AFI 91-204, *Investigating and Reporting US Air Force Mishaps*, and AFI 11-299, *Nuclear Airlift Operations*. Monitor closeout action on DULL SWORD reports.

2.11.16. (Added) Recommend the NSM attend the Defense Threat Reduction Agency (DTRA) Nuclear Weapons Orientation Course.

2.11.17. (Added) The NSM attends MAJCOM training within 90 days of being assigned to a nuclear surety manager position. OPR for the MAJCOM training is AMC/SEW.

2.11.18. (Added) A NSM is appointed (in writing) by the wing commander.

2.11.19. (Added) Publish policy for appointing, training, and defining responsibilities of a Unit Nuclear Surety Representative (UNSR).

2.11.20. (Added) NSM will assist the base Exercise Evaluation Team (EET) in planning a BROKEN ARROW response exercise. See AFI 32-4001.

2.11.21. (Added) PNAF wing requirement. The NSM will fly quarterly on a nuclear airlift mission to monitor the mission and base support operations. Send a copy of the trip report to HQ AMC/SEW and 15 AF/SEG/W.

2.16.1. The wing should supplement the command nuclear surety lesson plan with local requirements. The re-test should, as a minimum, examine areas in which the individual failed to demonstrate acceptable understanding on the initial test. The re-test should be structured the same as the original test (i.e., subjective or objective) and have the same number of questions. The retraining and retest should ensure an understanding of the basic concepts of nuclear surety as the original training and test. Send the lesson plan to NAF/SEG/W. The NAF coordinates on the plan and forwards to HQ AMC/SEW for approval.

2.16.4. (Added) DELETED.

2.17.1.5. (Added) Below the MAJCOM level, a Nuclear Surety Council (NSC) is established to monitor, evaluate, and improve policies and procedures for nuclear airlift operations and base support functions. A NSC is required at a PNAF wing and nuclear support wing.

2.17.1.6. (Added) Functions of a NSC:

- 2.17.1.6.1. (Added) Review current policies and recommend improvements.
- 2.17.1.6.2. (Added) Resolve or monitor resolution of subordinate unit SAAMREPs as appropriate.
- 2.17.1.6.3. (Added) Review applicable problems noted on other unit's SAAMREPs.
- 2.17.1.6.4. (Added) Review mishap reports applicable to nuclear airlift and support operations.
- 2.17.1.6.5. (Added) Monitor status of subordinate unit DULL SWORD reports.
- 2.17.1.6.6. (Added) Review AMC NSI and NSAV results.
- 2.17.1.6.7. (Added) Monitor preparations for a NSI.
- 2.17.1.7. (Added) The following functions require representation at NSC meetings:
  - 2.17.1.7.1. (Added) Aerial Port Operations Officer or designated representative
  - 2.17.1.7.2. (Added) Medical
  - 2.17.1.7.3. (Added) Ramp Services
  - 2.17.1.7.4. (Added) Civil Engineering
  - 2.17.1.7.5. (Added) Facility Support (as applicable)
  - 2.17.1.7.6. (Added) Explosive Ordnance Disposal (EOD)
  - 2.17.1.7.7. (Added) Fire Fighting
  - 2.17.1.7.8. (Added) CE Readiness (Disaster Preparedness)
  - 2.17.1.7.9. (Added) Logistics/Aircraft Maintenance
  - 2.17.1.7.10. (Added) Aircraft Generation
  - 2.17.1.7.11. (Added) Quality Assurance
  - 2.17.1.7.12. (Added) Munitions (as required)
  - 2.17.1.7.13. (Added) Operations
  - 2.17.1.7.14. (Added) Aircrew Standardization and Evaluation (PNAF wing only)
  - 2.17.1.7.15. (Added) Command and Control
  - 2.17.1.7.16. (Added) Current Operations (PNAF wing only)
  - 2.17.1.7.17. (Added) Intelligence
  - 2.17.1.7.18. (Added) Squadron Commander, Operations Officer, or Designee. The Commander should be present if possible. (PNAF wing only)
  - 2.17.1.7.19. (Added) Squadron Nuclear Airlift Monitor (PNAF wing only)
  - 2.17.1.7.20. (Added) Training
  - 2.17.1.7.21. (Added) Personnel
  - 2.17.1.7.22. (Added) Public Affairs
  - 2.17.1.7.23. (Added) Safety
  - 2.17.1.7.24. (Added) Security Forces

2.17.1.7.25. (Added) Military Equal Opportunity

2.17.1.7.26. (Added) Transportation-vehicle maintenance/operations

2.17.1.7.27. (Added) Others deemed appropriate by the Chairperson; (e.g., Air Traffic Control, Office of Special Investigations, Plans, etc.).

2.17.1.8. (Added) A recorder should be present for all NSC meeting. Meeting minutes will include specific actions taken, OPR, and the estimated completion date (ECD) for each item. Send minutes to NAF/SEG/W and HQ AMC/SEW.

***References (Added)***

AMCI 90-201, *The Inspection System*

AFI 11-299, *Nuclear Airlift Operations*

AFI 91-202, *The US Air Force Mishap Prevention Program*

***Abbreviations and Acronyms (Added)***

**C2**—Command and Control

**COMSEC**—Communications Security

**DCG**—Disaster Control Group

**DRF**—Disaster Response Force

**DTRA**—Defense Threat Reduction Agency

**EET**—Exercise Evaluation Team

**NSAV**—Nuclear Surety Staff Assistance Visit

**NSC**—Nuclear Surety Council

**NSSC**—Nuclear Surety Steering Committee

**NSM**—Nuclear Surety Manager

**NSPM**—Nuclear Surety Program Monitor

**NSOC**—Nuclear Surety Orientation Course

**NSWG**—Nuclear Surety Working Group

**OI**—Operating Instruction

**OPSEC**—Operational Security

**QRC**—Quick Reaction Checklist

**SAAMREP**—Special Assignment Airlift Mission Report

**UNSR**—Unit Nuclear Surety Representative

***Terms (Added)***

**Nuclear Support Base (NSB)**—A base that supports nuclear logistics missions, and bases listed in AFI

11-299.

**Nuclear Surety Manager (NSM)**—As used in this supplement, the term NSM identifies individuals performing nuclear surety functions as a primary duty at AMC headquarters, and wing-level.

**Nuclear Surety Program Monitor. (NSPM)**—As used in this supplement, the term NSPM identifies individuals performing nuclear surety functions as a primary duty at the NAF level.

**Unit Nuclear Surety Representative (UNSR)**—As used in this supplement, the term UNSR identifies an individual responsible for many of the nuclear surety program requirements at the group and squadron level.

**Nuclear Surety Orientation Course (NSOC)**—A course designed to give new squadron commanders an overview of the nuclear surety program. The course is tailored to the AMC mission and provides commanders information and tools necessary to have a successful program.

**Nuclear Surety Staff Assistance Visit (NSAV)**—The purpose of the NSAV is to explore nuclear surety program improvements. This is an evaluation not an inspection by MAJCOM. It is requested by the wing commander every 18 months, which is midway between Nuclear Surety Inspections. It is a collaborative process tailored to a review of a unit's nuclear mission and nuclear surety program.

**Attachment 4 (Added)****IC 02-01, TO AFI 91-101\_AMCSUP 1, 31 MAY 2001  
AIR FORCE NUCLEAR WEAPONS SURETY PROGRAM*****SUMMARY OF REVISIONS***

This change incorporates interim change (IC) 2002-1 (Attachment 4). It deletes paragraph 2.16.4. (Added). \*2.16.4. DELETED.

DAVID R. ZIEGLER, Colonel, USAF  
Director of Safety