

**BY ORDER OF THE COMMANDER  
DOVER AIR FORCE BASE**

**DOVER AIR FORCE BASE  
INSTRUCTION 91-101**

**13 JULY 2010**

**Safety**



**DOVER NUCLEAR WEAPONS  
SURETY PROGRAM**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This Dover Air Force Base Instruction (DAFBI) implements Air Force Policy Directive (AFPD) 91-1, *Nuclear Weapons and Systems Surety* and Air Force Instruction (AFI) 91-101, *Air Force Nuclear Weapons Surety Program*. This instruction is the nuclear surety portion of the wing mishap prevention plan. It provides guidance and establishes a program for reporting deficiencies of nuclear-certified equipment as DULL-SWORD Material Deficiency Reports (MDRs) In Accordance With (IAW) Technical Order (T.O.) 00-35D-54, *United States Air Force (USAF) Deficiency Reporting, Investigation, and Resolution*, AFI 91-204, *Safety Investigations and Reports*, and Air Force Manual (AFMAN) 91-221, *Weapons Safety Investigations and Reports*. It applies to all base organizations that operate or perform maintenance on general purpose, special purpose, and material handling equipment that are nuclear safety certification. Tasked organizations may develop operating instructions (OI) in support of this instruction. If unit-level OIs are developed, provide a copy to the Wing Safety (436 AW/SE). Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with AFMAN 33-363, *Management of Records*, and disposed of in accordance with the Air Force Records Disposition Schedule (RDS) located at <https://afrims.amc.af.mil/>. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF IMT 847, *Recommendation for Change of Publication*; route AF IMT 847s from the field through the appropriate functionals chain of command.

**1. General:** Nuclear Surety Program for Dover Air Force Base (DAFB) includes nuclear-certified equipment deficiency reporting, emergency nuclear airlift mission support, and SAFE HAVEN procedures.

1.1. DAFB does not routinely support nuclear airlift missions or maintain facilities for storage and handling of nuclear weapons or components. As an emergency nuclear airlift support base, DAFB is required to maintain an awareness program and support emergency diversions of nuclear airlift missions. Information and specific guidance is located in 436 Airlift Wing (AW) Operation Plan (OPLAN) 31-08, *Installation Security Plan*.

1.2. Day-to-day cargo handling operations are accomplished by units using general purpose, special purpose, and material handling equipment that has been nuclear certified for weapons/components use. Accurate and timely reporting of deficiencies that could impact combat readiness of this equipment is mandatory.

1.3. DAFB must have plans to support the Department of Energy (DOE) if they request SAFE HAVEN for a nuclear convoy.

## **2. Responsibilities:**

2.1. Installation Commander (436 AW/CC) will:

2.1.1. Organize a Nuclear Surety Council, as required.

2.1.1.1. Chair the Nuclear Surety Council or delegate this responsibility to the 436 Airlift Wing Vice Commander (436 AW/CV).

2.1.1.2. Include functional experts who support the nuclear surety program as advisors.

2.1.1.3. As required, request tenant units provide attendees to nuclear surety councils.

2.1.2. Oversee development and implementation of a Wing Nuclear Surety Program and associated plans.

2.1.2.1. Ensure plans and procedures are in place to support SAFE HAVEN requirements.

2.1.2.2. Establish nuclear accident/incident response organization IAW AFI 10-2501, *Air Force Emergency Management Program Planning and Operations* and Department of Defense Instruction (DODI) 3150.8 M, *Nuclear Accident Response Procedures*.

2.1.3. Ensure nuclear surety deficiency reporting procedures are in place.

2.1.4. Appoint, in writing, a Wing Nuclear Surety Officer (NSO) from the Wing Weapons Safety office IAW AFI 91-101 and AFI 91-101 AMC Supplement. The NSO duties are outlined in para. 2.5.

2.2. Group Commanders and the Director of Staff will be members of the Nuclear Surety Council.

2.3. Unit Commanders will:

2.3.1. Ensure compliance with the nuclear surety program and safety requirements within each unit.

2.3.2. Ensure all personnel who may potentially operate or maintain nuclear-certified equipment are aware of proper reporting procedures for material deficiencies and

understand the importance of protecting classified information to avoid mission compromise.

2.4. Chief of Safety (436 AW/SE) will:

2.4.1. Oversee the management of the base Nuclear Surety Program.

2.4.2. Act as a validation and certifying official on all MDRs where damage or injury resulting from a material deficiency is reported as a mishap or DULL SWORD MDR.

2.4.3. Ensure nuclear surety plans and procedures are reviewed by affected agencies before implementation.

2.5. Wing Nuclear Surety officer will:

2.5.1. Serve as the central point of contact for all matters concerning nuclear surety and material deficiency reports.

2.5.2. Review base security programs and procedures annually to verify all nuclear surety requirements are complied with. Document the inspection in memo format including type of inspection, date, functional area inspected, key personnel contacted/interviewed, findings, observations, and recommended corrective actions.

2.5.3. Review annually base SAFE HAVEN support plans.

2.5.4. Serve as focal distribution point for Air Mobility Command (AMC) Nuclear News (Cross-Tells).

2.5.5. Review all DULL SWORD MDRs for compliance with T.O. 00-35D-54 and maintain a copy on file in the safety office.

2.5.6. Ensure a current copy of the 436 AW/CC signed appointment letter is sent to HQ AMC/IGFN, Scott AFB, Illinois 62225.

2.6. Logistics Readiness Squadron Commander (436 LRS/CC) will:

2.6.1. Ensure supervisors provide training to all applicable personnel on DULL SWORD procedures.

2.6.2. Appoint a member, in writing, to manage DULL SWORD material deficiency reporting for nuclear-certified vehicles and material handling equipment.

2.6.3. Provide a copy of the appointment letter to 436 AW/SE.

2.6.4. Ensure MDRs are coordinated with 436 AW/SEW.

2.6.5. Establish procedures for holding MDR status reports until close-out actions are complete.

2.6.6. Ensure all vehicles have required inspections and proper reporting accomplished, as needed.

2.6.7. Review and validate all vehicle-related MDRs.

2.7. Aerial Port Squadron Commander (436 APS/CC) will ensure aerial port vehicle control officers are trained on DULL SWORD procedures.

2.7.1. Ensure supervisors provide training to all applicable personnel on DULL SWORD procedures.

2.8. Maintenance Squadron Commander (436 MXS/CC) will:

2.8.1. Ensure supervisors provide training to all applicable personnel on DULL SWORD procedures.

2.8.2. Provide secured area inside the Munitions Storage area for protection of nuclear weapons/components during emergency nuclear airlift and SAFE HAVEN operations.

2.9. Civil Engineering Squadron Commander (436 CES/CC) will:

2.9.1. Ensure supervisors provide training to all applicable personnel on DULL SWORD procedures.

2.9.2. Ensure base fire protection personnel are trained to respond to nuclear weapons fires/incidents.

2.9.3. Develop local procedures, in accordance with AFI 10-2501, for a major accident emergency response involving nuclear weapons.

2.9.4. Ensure EOD personnel develop nuclear accident/incident response procedures.

2.10. Command Post (436 AW/CP) will:

2.10.1. Serve as the central point of contact and will establish command and control of DOE/DOD SAFE HAVEN operations and emergency nuclear airlift support.

2.10.2. Initiate appropriate Quick Reaction Checklist for SAFE HAVEN, nuclear divert/airlift missions, and nuclear incidents.

2.10.3. Perform annual formal and scenario training on emergency nuclear airlift support and SAFE HAVEN operations.

2.11. Security Forces Squadron Commander (436 SFS/CC) will:

2.11.1. Ensure supervisors provide training to all applicable personnel on DULL SWORD procedures.

2.11.2. Develop plans and procedures for the protection of nuclear airlift missions and DOE SAFE HAVEN convoys in the 436 AW OPLAN 031-08, Installation Security Plan.

2.11.3. Ensure security forces personnel are trained on the two-man concept requirements of AFI 91-101, Air Force Nuclear Weapons Surety Program.

2.11.4. Notify Command Post of DOE SAFE HAVEN Convoy arrivals.

2.12. Plans and Programs (436 AW/XP) will annually review Wing plans that support nuclear diverts, DOE SAFE HAVEN convoys, and nuclear accidents to ensure currency.

### **3. Investigating and Reporting**

3.1. Material deficiencies on nuclear-certified equipment/vehicles will be investigated and reported as DULL SWORD MDR, IAW T.O. 00-35D-54, AFI 91-204, and AFMAN 91-221. These include, but are not limited to, material handling equipment listed in T.O. 00-1110N-16 (i.e. K-loaders, forklifts, flatbed trailers, aircraft pallets, load binders, etc.) and the vehicle listing maintained by 436 LRS.

3.2. Report DULL SWORD on:

- 3.2.1. Deficiencies that occur during normal operations.
- 3.2.2. Deficiencies for which corrective action procedures are not provided in Technical Orders.
- 3.2.3. Weld cracks, regardless of the existence of corrective action procedures or when discovered.
- 3.2.4. Brake system deficiencies that affect a tow vehicle's capability to operate safely.
- 3.2.5. Deficiencies that affect steering or stability.
- 3.2.6. Weld cracks in pintle hook mounting plates and support brackets or fifth wheels.
- 3.2.7. Deficiencies in tie down points and patterns.
- 3.2.8. Deficiencies in forklift hydraulic, mechanical or structural components of the lifting system.

3.3. Do not report DULL SWORD on:

- 3.3.1. Discrepancies noted during routine maintenance inspections where corrective action is provided in the applicable Technical Order.
- 3.3.2. Traffic accidents not involving nuclear weapons and not caused by a vehicle deficiency.
- 3.3.3. Minor discrepancies such as dents, rust and corrosion that do not affect the normal operation/use of the vehicle.
- 3.3.4. Deficiencies in electrical accessories including lights and windshield wipers.

3.4. DULL SWORD Material Deficiency Reports will be prepared IAW AFMAN 91-221, Attachment 4.

#### **4. Adopted Forms.**

AF IMT 847, *Recommendation for Change of Publication*

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Commander, 436 Airlift Wing

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

AFI 10-2501, *Air Force Emergency Management (EM) Program Planning and Operations*, 24 January 2007

AFPD 91-1, *Nuclear Weapons and Systems Surety*, 13 February 2007

AFI 91-101, *Air Force Nuclear Weapons Surety Program*, 19 December 2005

AFI 91-204, *Safety Investigations and Reports*, 24 September 2008

AFMAN 91-221, *Weapons Safety investigations and Reports*, 18 June 2004

DOD 3150.8 M, *Nuclear Accident Response Procedures*, 22 February 2005

T.O. 00-110N-16, *USAF Nuclear Certified Equipment and Software*, 22 March 2006

T.O 00-35D-54, *USAF Deficiency Reporting, Investigation, and Resolution*, 01 May 2007

436 AW OPLAN 31-08, *Installation Security Plan*, 30 September 2009

436 AW OPLAN CEMP 10-2, *Comprehensive Emergency Management Plan*, 21 January 2010

***Abbreviations and Acronyms***

**AFB**—Air Force Base

**AFPD**— Air Force Policy Directive

**AFI**—Air Force Instruction

**AFMAN**—Air Force Manual

**AMC**—Air Mobility Command

**AW**—Airlift Wing

**CC**— Commander

**CV**—Vice Commander

**DAFB**— Dover Air Force Base

**DAFBI**—Dover Air Force Base Instruction

**DOD**— Department of Defense

**DOE**— Department of Energy/

**EOD**—Explosive Ordinance Disposal

**HQ**—Headquarters

**IAW**—In Accordance With

**LRS**— Logistic Readiness Squadron

**MDR**—Material Deficiency Report

**NSO**— Nuclear Surety Officer

**OI**— Operating Instructions

**OPLAN**—Operation Plan

**OPR**—Office of Primary Responsibility

**OPREP**—3-Operational Reporting

**RDS**— Records Disposition Schedule

**SE**—Safety

**SEW**—Weapons Safety

**TO**—Technical Order

**USAF**—United States Air Force

*Terms*

**Nuclear Surety**—A term used to encompass all activities that ensure Air Force compliance with the four DOD Nuclear Safety Standards defined in AFI 91-101, Air Force Nuclear Weapons Surety Program.

**Nuclear—Certified Equipment**—Support equipment, combat and non-combat delivery vehicles that have received a nuclear safety certification and are authorized for use with nuclear weapons.

**SAFE HAVEN**—Code name for an agreement between the DOE and the Department of Defense (DOD) authorizing the temporary storage of DOE classified shipments at DOD facilities in the event of natural disaster, civil disorder, or other emergency.

**DULL SWORD**—Flag word used to identify a material deficiency on nuclear-certified equipment.

**Material Deficiency**—A product anomaly which occurs after program management responsibility transfer or the service report cutoff date. This anomaly, if uncorrected, would cause death, severe injury, occupational illness, or loss or damage of a major weapons system.

**Attachment 2****EXAMPLE SELF-INSPECTION CHECKLIST****Figure A2.1. Self Inspection Checklist**

*NOTE: Questions in this are only for units that may support an emergency nuclear surety mission. In the case of a units noncompliance, point of contact would be 436 AW/SEW.*

Does the squadron have an effective nuclear surety awareness training program (DAFBI 91-101, para 1.1)?

Has the unit designated an individual to manage DULL SWORD reports for nuclear certified vehicles and equipment (DAFBI 91-101, para 2.6.1)?

Has the unit prepared emergency response procedures involving nuclear weapons or components (DAFBI 91-101, para 2.9.2)?

Are operating personnel periodically reviewing unit OIs for compliance with Dover's Nuclear Surety Program (DAFBI 91-101, para 2.3.1)?

Are units reviewing nuclear support programs annually for compliance (DAFBI 91-101, para 2.5.2)?