

**BY ORDER OF THE COMMANDER
82D TRAINING WING (AETC)**

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



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Safety

NUCLEAR CERTIFIED EQUIPMENT

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OPR: 82 TRW/SEW

Certified by: 82 TRW/SE
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This instruction implements AFD 91-1, *Nuclear Weapons and System Surety*. It defines responsibilities and establishes local procedures to identify and monitor Nuclear Certified Equipment (NCE) and establishes local procedures for reporting suspected NCE deficiencies (flagword) "DULL SWORD" to the Wing Safety office. It applies to all military and civilian personnel in units that handle or maintain NCE. Ensure that 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 the Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS) or any updated statement provided by the AF Records Management Office (SAF/CIO A6P). Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using Air Force (AF) Form 847, Recommendation for Change of Publication; route AF Forms 847 from the field through the appropriate functional's chain of command. If there is any conflict between statements in this instruction and AFRIMS regarding retention of records, AFRIMS applies. Refer recommended changes and questions about this publication to the OPR. The use of the name or mark of any specific manufacturer, commercial product, commodity, or service in this publication does not imply endorsement by the Air Force. See Attachment 1 for a Glossary of References and Supporting Information.

1. General. Reinvigoration of the Air Force nuclear mission is a high priority. Reporting malfunctions, failures, and abnormalities involving Nuclear Certified Equipment (NCE) in use at non-nuclear units is one aspect of the nuclear reinvigoration effort. The DULL SWORD nuclear deficiency report provides a means of trend analysis to identify issues that could affect the safety and reliability of an NCE asset for use in nuclear operations. This instruction serves to define responsibilities and establishes local procedures to identify and monitor NCE, as well as

procedures for reporting suspected NCE deficiencies to the Wing Safety office for investigation and up-channel reporting as warranted. Furthermore when a product quality deficiency report is submitted involving a nuclear certified asset the unit will also complete a Sheppard AFB Form 16, *DULL SWORD WORKSHEET*. The 82d Training Wing Safety office will determine if the product quality deficiency also warrants DULL SWORD reporting. Tenant units on AF installations will follow reporting guidelines IAW host installation's Weapon Safety Office with a courtesy message transmitted through Commander channels to the 82nd WG/CC.

2. Responsibilities:

2.1. Wing Weapons Safety Manager will:

- 2.1.1. Serve as the installation DULL SWORD program manager.
- 2.1.2. Provide training to unit NCE monitors and perform staff assistance visits as requested.
- 2.1.3. Verify unit NCE listings are validated semi-annually.
- 2.1.4. Conduct inspection of unit NCE program in conjunction with annual safety inspection.
- 2.1.5. Investigate and submit reportable NCE malfunctions, failures, and abnormalities to the Air Force Safety Center through the Air Force Safety Automated System (AFSAS).

2.2. Unit commanders with Nuclear Certified Equipment assigned will:

- 2.2.1. Appoint primary and alternate unit NCE monitors possessing at least a 5-skill level to serve as liaisons to the Wing Weapons Safety office. Personnel serving as Unit Weapons Safety Representatives may also be designated NCE monitors at the commanders' discretion.
- 2.2.2. Appointees will be replaced 30 days prior to separation, PCS, or deployment in excess of 30 days.
- 2.2.3. Ensure appointees receive initial NCE monitor training from the Wing Weapons Safety office within 30 days of appointment.
- 2.2.4. Ensure procedures for reporting mishaps/deficiencies involving NCE are included in unit mishap reporting procedures.
- 2.2.5. Certify semi-annual unit NCE verification listing (Attach 2).
- 2.2.6. Squadrons under the command of a group in which multiple squadrons have NCE assigned (i.e. 82 TRG) may consolidate NCE into a single listing for certification by the Group Commander.

2.3. Unit Nuclear Certified Equipment Monitors will:

- 2.3.1. Identify all NCE assigned to their unit utilizing the Master Nuclear Certified Listing (MNCL). Listing is located at <https://wwwmil.nwc.kirtland.af.mil/MNCL/index.cfm>.
- 2.3.2. Compile unit NCE listing and submit to the owning commander for certification. Unit listings will be revalidated semiannually. A copy will be submitted to Wing Safety.

2.3.3. Ensure 100% of unit assigned NCE is surveyed and documented on an annual basis to ensure legibility of identification information (i.e., data plate, information plate, appropriate markings, etc.) and that the information matches the MNCL listing (this may be incorporated into periodic inspections). Discrepancies will be reported via command channels to the appropriate program office with engineering authority for the item or system in question and via the MNCL feedback/problem reporting process at <https://wwwmil.nwc.kirtland.af.mil/MNCL/index.cfm>.

2.3.4. Brief, at least semi-annually, all unit personnel required to use or train the use of NCE as part of their duties or responsible for personnel who use or train the use of NCE as part of their duties the specific NCE owned/operated by the unit and DULL SWORD reporting procedures. Positive confirmation of this briefing (i.e. a sign-in sheet with legible names and signatures) shall be retained for no less than 18 months.

2.3.5. Maintain a NCE Program continuity binder which will contain the following information:

2.3.5.1. Table of Contents.

2.3.5.2. Tab A - Unit NCE Monitor appointment letter.

2.3.5.3. Tab B – Current unit NCE listing certified by owning commander.

2.3.5.4. Tab C – Annual NCE identification survey documentation and any discrepancies reported documentation.

2.3.5.5. Tab D – Semi-annual NCE briefings and positive confirmation documentation.

2.3.5.6. Tab E – Submitted Sheppard Air Force Base Form(s) 16, DULL SWORD Worksheet.

2.3.5.7. Tab F – Miscellaneous (DULL SWORD reports, publicity items, etc.)

2.3.6. Report all NCE malfunctions, failures, and abnormalities meeting criteria outlined in section 3 within three duty days to Wing Safety utilizing the Sheppard AFB Form 16, DULL SWORD Worksheet.

3. DULL SWORD Conditions:

3.1. Refer to AFMAN 91-221, *Weapons Safety Investigations and Reports*, for complete criteria.

3.1.1. Malfunction, failure, or anomaly during operations or testing, potentially resulting in a safety or coded device to arm or be left in an unsafe condition (e.g., Safe and Arm devices).

3.1.2. Stability, steering or brake system problems that affect the safe steering, stopping, towing, or holding in park of a tow or transport vehicle (cargo, loading, or lifting). Do not include dents, flat tires, corrosion, or electrical malfunctions and failures resulting from fair wear and tear.

3.1.3. Defects or failures in vehicle structural members (including the pintle hooks and mounting structure, fifth wheels) that support the load or transmit the towing or braking force.

- 3.1.4. Inadequate restraint of loads attributed to trailer tie down points or tie down patterns.
- 3.1.5. Unsafe condition or improper operation of the hydraulic, mechanical, and structural components of lift vehicles (e.g., forklifts and K-loaders) resulting in unresponsive operation, uncontrolled raising or lowering, or improper cargo restraint.
- 3.1.6. Exceeding the rated load-capacity of any equipment/vehicle listed in the MNCL.
- 3.1.7. Damage, malfunction, failure, or anomaly involving test equipment listed in the MNCL.
- 3.1.8. Recognizable failure modes where specific diagnostic and corrective actions are outlined in current technical data, including fair wear and tear, are not reportable.

DARRYL W. BURKE, Brigadier General, USAF
Commander

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

AFI 21-101, *Aircraft and Equipment Maintenance Management*, 26 July 2010

AFI 63-125, *Nuclear Certification Program*, 8 August 2012

AFI 91-101, *Air Force Nuclear Weapons Surety Program*, 13 October 2010

AFI 91-204, *Safety Investigations and Reports*, 12 February 2014

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

AFMAN 91-221, *Weapons Safety Investigations and Reports*, 8 November 2010

AFPD 91-1, *Nuclear Weapons and System Surety*, 13 December 2010

Adopted Forms

AF Form 847, *Recommendation for Change of Publication*

Prescribed Form

SAFB Form 16, *DULL SWORD Worksheet*

Abbreviations and Acronyms

AF—Air Force

AFMAN—Air Force Manual

AFRIMS—Air Force Records Information Management System

AFSAS—Air Force Safety Automated System

MNCL—Master Nuclear Certification Listing

NCE—Nuclear Certified Equipment

RDS—Records Disposition Schedule

Attachment 2

SAMPLE UNIT NUCLEAR CERTIFIED EQUIPMENT LISTING

MEMORANDUM FOR 82 TRW/SEW (Date)

FROM: (Owning Commander)

SUBJECT: XX XXX Nuclear Certified Equipment (NCE) Listing

This certifies that the XX XXX/XXXX NCE listing semi-annual validation occurred on XX XXX XX. All equipment/items were referenced to the Master Nuclear Certification List (MNCL) located at <https://wwwmil.nwc.kirtland.af.mil/MNCL/index.cfm>. The MNCL is the sole authority for determining nuclear certification status.

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Weapon System	Nomenclature	Hardware Type	Model #	NIIN	Part #	Cert Status	Last Update	Qty
NON SPECIALIZED	ADAPTER ASSEMBLY, FORK	MUNITIONS HANDLING EQUIPMENT	MHU 101/E	00 943 8306	65E35468 1	NUCLEAR	XX Apr XX	X
NON SPECIALIZED	TRUCK, TRACTOR, 24,000 GVW	TRUCK TRACTOR	1750	01 022 8438	NONE	NUCLEAR	XX Apr XX	X

Types and quantities of NCE equipment have been coordinated with the users.

Direct questions to the XXXXXX Unit NCE Monitor at XXX-XXXX.

JOHN Q. PUBLIC, Lt Col, USAF
Commander