

**BY ORDER OF THE COMMANDER  
LUKE AIR FORCE BASE (AETC)**

**LUKE AIR FORCE BASE  
INSTRUCTION**



**91-101**

**7 JULY 2025**

*Certified Current, 14 January 2026*

**Safety**

**NUCLEAR CERTIFIED EQUIPMENT**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This instruction implements Air Force Instruction (AFI) 63-125, *Nuclear Certification Program*, Department of the Air Force Instruction (DAFI) 91-101, *Air Force Nuclear Weapons Surety Program* and Department of the Air Force Manual (DAFMAN) 91-221, *Weapons Safety Investigations and Reports*. This instruction defines responsibilities and establishes local procedures to identify and monitor Nuclear Certified Equipment (NCE) and establishes local procedures for reporting only 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. It does not apply to foreign owned aircraft equipment or personnel. Also, this publication does not apply to Air Force Reserve Command (AFRC) and Air National Guard (ANG) Units. Refer recommended changes and questions about this publication to the OPR using the DAF Form 847, *Recommendation for Change of Publication*; route DAF Forms 847 from the field through the appropriate functional chain of command. Ensure all records generated as a result of processes prescribed in this publication adhere to Air Force Instruction (AFI) 33-322, *Records Management and Information Governance Program*, and are disposed in accordance with the Air Force Records Disposition Schedule, which is located in the Air Force Records Information Management System. This publication may not be supplemented or further implemented or extended. The authorities to waive wing, unit, delta or garrison level requirements in this publication are identified with a Tier (“T-0, T-1, T-2, T-3”) number following the compliance statement. Submit requests for waivers through the chain of command to the appropriate tier waiver approval authority or alternately to the publication OPR for non-tired compliance items. See DAF Manual (DAFMAN) 90-161,

*Publishing Processes and Procedures*, for a description of the authorities associated with the tier numbers

## **SUMMARY OF CHANGES**

Major changes to this publication are: Unit verification of assigned NCE changed from semi-annual to annual requirement. Updates the references used.

### **1. General.**

1.1. 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. This instruction establishes procedures and responsibilities for DULL SWORD nuclear deficiency reporting within the 56th Fighter Wing. DULL SWORD reporting 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 Luke AFB Form 327, *56 FW DULL SWORD Worksheet*. The 56th Fighter Wing Safety office will determine if the product quality deficiency also warrants DULL SWORD reporting.

### **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 annually.

2.1.4. Conduct inspection of unit NCE program in conjunction with annual safety inspection.

2.1.5. Investigate and submit DULL SWORD reportable malfunctions, failures, and abnormalities involving NCE to the Air Force Safety Center through the Air Force Safety Automated System (AFSAS).

2.2. Unit commanders with Nuclear Certified Equipment 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. Certify annual unit NCE verification listing (**Attachment 2**).

2.2.5. Squadrons under the command of a group in which multiple squadrons have NCE assigned (i.e., MXG) 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://www.mil.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 annually. A copy will be submitted to Wing Safety.

2.3.3. Report all NCE malfunctions, failures, and abnormalities meeting criteria outlined in section 3 to Wing Safety within five duty days utilizing the Luke AFB Form 327, *56 FW DULL SWORD Worksheet* (Attachment 3).

### **3. DULL SWORD Conditions.**

3.1. Refer to Air Force Manual (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.

DAVID J. BERKLAND  
Brigadier General, USAF

Commander, 56th Fighter Wing

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

DAFI 91-101, *Air Force Nuclear Weapons Surety Program*, 26 March 2020 with IC1, 6 April 2022

AFI 63-125, *Nuclear Certification Program*, 16 January 2020

AFI 33-322, *Records Management and Information Governance Program*, 23 March 2020

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

***Prescribed Form***

Luke AFB Form 327, *56 FW DULL SWORD Worksheet*

***Adopted Form***

DAF Form 847, *Recommendation for Change of Publication*

***Abbreviations and Acronyms***

**AF**—Air Force

**AFI**—Air Force Instruction

**AFB**—Air Force Base

**AFMAN**—Air Force Manual

**AFPD**—Air Force Policy Directive

**AFRC**—Air Force Reserve Command

**AFRIMS**—Air Force Records Information Management System

**AFSAS**—Air Force Safety Center through the Air Force Safety Automated System

**ANG**—Air National Guard

**DAFI**—Department of the Air Force Instruction

**MNCL**—Master Nuclear Certified Listing

**NCE**—Nuclear Certified Equipment

## Attachment 2

## SAMPLE UNIT NUCLEAR CERTIFIED EQUIPMENT LISTING

Figure A2.1. Unit Nuclear Certified Equipment Listing.

MEMORANDUM FOR XX FW/SEW

(Date)

FROM: (Owning Commander)

SUBJECT: XX XXX Nuclear Certified Equipment (NCE) Listing

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

2. DISCLOSURE STATEMENT: This information is furnished upon the condition that it will not be released to another nation without the specific authority of the Department of the Air Force of the United States; it will be used for military purposes only; individual or corporate rights originating in the information, whether patented or not, will be respected; recipient will report promptly to the United States any known or suspected compromise; and the information will be provided substantially the same degree of the security afforded it by the Department of Defense of the United States.

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 Flight NCE Monitor at XXX-XXXX.

JOHN Q. PUBLIC, Lt Col, USAF  
Commander

Attachment 3

56 FW DULL SWORD WORKSHEET

Figure A3.1. 56 FW DULL SWORD Worksheet.

DULL SWORD WORKSHEET			56 FW	
DATE DISCOVERED	TIME DISCOVERED	LOCATION		
DISCOVERED BY	DUTY TITLE	ORGANIZATION	DUTY PHONE	
ITEM NOMENCLATURE		ITEM NSN		
ITEM P/N	WORK UNIT CODE	REG/SER#ID#		
MANUFACTURER		REFERENCE		
NARRATIVE (Describe the operation being performed at the time of the discovery or the circumstances leading to the mishap. Include enough information to provide a clear picture of the extent of the damage, actions taken and/or recommended actions.)				
<b>WING PERSONNEL NOTIFIED</b>				
WEAPONS SAFETY OFFICE	DATE	TIME	DUTY PHONE	
<b>SQUADRON PERSONNEL NOTIFIED</b>				
SECTION NCE MONITOR	DATE	TIME	DUTY PHONE	
FLIGHT SUPERVISION	DATE	TIME	DUTY PHONE	
SQUADRON SUPERVISION	DATE	TIME	DUTY PHONE	
QUALITY ASSURANCE (MXG Reports Only)	DATE	TIME	DUTY PHONE	
PHOTOGRAPHS TAKEN? <input type="checkbox"/> YES <input type="checkbox"/> NO				
<b>IF ITEM WAS TURNED IN FOR REPAIR/ASSESSMENT, COMPLETE THE FOLLOWING BLOCKS</b>				
DATE	TIME	DUTY PHONE	SQUADRON	
NAME	SUPPLY DOC		JOB CONTROL	
** IF USING THIS FORM IN THE MANUAL FORMAT, AS A MINIMUM MAKE 3 COPIES NCE MONITOR - 1, WING SAFETY - 1, ATTACH <u>A THIRD COPY</u> TO ITEMS BEING SENT TO A REPAIR/ASSESSMENT AGENCY				
<b>56 FW WEAPONS SAFETY OFFICE USE ONLY</b>				
INDIVIDUAL GRADE-NAME				
DATE	TIME	DUTY PHONE		