

**BY ORDER OF THE COMMANDER
HEADQUARTERS UNITED STATES
AIR FORCES EUROPE COMMANDER
UNITED STATES AIR FORCES AFRICA**

**AIR FORCE MANUAL 21-200 UNITED
STATES AIR FORCES IN EUROPE-AIR
FORCES AFRICA Supplement**

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Maintenance

**MUNITIONS AND MISSILE
MAINTENANCE MANAGEMENT**



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AFMAN 21-200, 9 August 2018, is supplemented as follows: This supplement applies to all United States Air Forces in Europe (USAFE) units with a capability to maintain, handle and account for nuclear munitions previously identified in AFI 21-204, Nuclear Weapons Maintenance Procedures, USAFE Supplement. It is published according to provisions of Air Force Instruction (AFI) 33-360, Publications and Forms Management. This supplement does not apply to the Air National Guard (ANG) or Air Force Reserve Command (AFRC) units. Units will not publish a supplement to this publication. Units will contact the Office of Primary Responsibility (OPR) for interpretations of the guidance contained in this supplement. The authorities to waive wing/unit level requirements in this publication are identified with a Tier ("T-0, T-1, T-2, T-3") number following the compliance statement. See AFI 33-360, *Publications and Forms Management*, for a description of the authorities associated with the Tier numbers. Submit requests for waivers through the chain of command to the appropriate Tier waiver approval authority, or alternately, to the Publication OPR for non-tiered compliance items. Ensure that all records created as a result of processes prescribed in this publication are maintained IAW Air Force Manual (AFMAN) 33-363, *Management of Records*, and disposed of IAW Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS). Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of*

Publication; route AF Forms 847 from the field through the appropriate functional chain of command.

SUMMARY OF CHANGES

This document has been revised to align with the parent re-write and change from AFI to an AFMAN. Specific historical data documentation requirements have been added for nuclear certified hoist/cranes and hooks, the Weapon Storage and Security System (WS3), and the Secure Transportable Maintenance System (STMS). Additionally, USAFE specific items and increased sampling percentages have been added to the Quality Assurance (QA) tables covering minimum sampling requirements for inspections and Personal Evaluations.

2.5.10. **(Added)** Ensure a Field Assist Request (FAR) is submitted using Air Force Nuclear Munitions Command and Control (NMC2) within three duty days of encountering any abnormal WS3/Secure Transportable Maintenance System (STMS) related issue. **(T-2)**

2.5.11. **(Added)** Provide NMC2 support to communications maintenance for WS3 FAR submission. **(T-2)**

2.6.3. **(Added)** Ensure AFTO Form 95 (digital or paper) entries are made for the below identified items/circumstances and these records are maintained for the life of the item: **(T-2)**

2.6.3.1. **(Added)** Nuclear Certified crane/hoist and hooks: periodic inspections, repairs, and tests. **(T-2)**

2.6.3.2. **(Added)** Weapon Storage and Security System: intermediate level maintenance, significant repairs, and major modifications. **(T-2)**

2.6.3.3. **(Added)** Secure Transportable Maintenance System: intermediate level maintenance, significant repairs, and major modifications. **(T-2)**

4.1.7.3. The weekly schedule will be signed by the Operations Officer or Maintenance Superintendent. **(T-2)**

6.1.5.2. **(Added)** USAFE units that utilize the WS3 or dedicated secure rooms for TYPE 3 A/B/C trainer storage, do not require a key and lock program solely for the purpose of TYPE 3 trainer storage. Ensure dedicated secure rooms meet all the requirements in AFI 16-1404, Air Force Information Security Program **(T-2)**.

7.2.1. Group Commanders (or equivalent) will: **NOTE:** For units not falling under a parent Maintenance Group and NOT geographically separated, responsibilities will fall to the parent Group Commander (or equivalent) **(T-2)**.

7.2.2.9.1. **(Added)** HQ USAFE-AFAFRICA does not require an activity inspection program. **(T-2)**

7.2.2.15.2.5. **(Added)** Nuclear weapons maintenance evaluators are required to complete the HQ USAFE-AFAFRICA Nuclear Evaluators course.

7.2.2.15.2.5.1. **(Added)** Evaluators will contact HQ USAFE-AFAFRICA/A10NM for course availability and scheduling within 90 days of appointment.

7.2.2.15.2.5.2. **(Added)** Course completion will be documented in members' TBA. **(T-2)**

Table 7.3. Minimum Sampling requirements for Inspections.

Tasks	Frequency	Remarks
Tools, Test, Tiedown and Handling (TTT&H) equipment	One SI per Quarter ²	
Nuclear Certified Hoists including: <ol style="list-style-type: none"> 1. Payload Transporter 2. Transportable Maintenance System 3. Nuclear certified slings and attachments 4. Cruise Missile Hoisting Equipment (MHU- 186/E/F, MHU- 166/E, MHU-224/E, and HLU- 290/E) 	100% Annually	
Munitions Control, Missile Maintenance Operations Center	One SI per Quarter ²	
TYPE 3 trainers, Bomb Dummy Units, Inert/Dummy Training Items	25% Annually	Undocumented deficiencies to training assets will also be identified as SIs during PEs, certifications, etc.
Nuclear Storage and Maintenance Facilities	10% Annually	
Launch Facilities	10% Annually	
Missile Alert Facilities	1 per Quarter	
Weapons stockpile	10% Annually	(USAFE) 100% Annually (T-2)
Cruise Missile Stockpile	10% Annually	All cruise missiles loaded on launchers
		and pylons; does not include demilitarization coded assets
High Security Key and Lock, Cell Unlock Device (CUD), and WS3	One SI per Quarter ²	

Communication Security (COMSEC) Programs		
Permissive Action Link (PAL) and Command Disable System Management Program	One SI per Quarter ²	
Nuclear Accountability & Reporting Programs (accountable records, Unit Spares Authorization Listing, SEV/ Semiannual Inventory Report packages)	One SI per Quarter ²	
AF 2435, <i>Load Training and Certification Documents.</i>	100% Annually	
Unit managed lesson plans	100% Annually	Not applicable for headquarters managed lesson plans
Single Missile Final Assembly Inspection	25% per Quarter	
Fully Loaded Pylon or Full EWO Load	50% per Quarter	In Integrated Maintenance Facility after final Supervisory Inspection
Fully Loaded Launcher or Full EWO Load	50% per Quarter	In Integrated Maintenance Facility after final Supervisory Inspection
Inspect RV Components	25% per Quarter	QVI
Inspect RS Components	25% per Quarter	QVI
Inspect Built-Up Reentry System	50% per Quarter	In the Maintenance and Inspection Facility after final supervisory inspection.
(USAFE) Secure Transportable Maintenance System (STMS)	100% Annually (T-2)	
NOTE:		
1. For the purposes of this table, a nuclear maintenance and inspection activity is any element		

or flight level organization that performs Force Development Evaluation (FDE) activities, nuclear weapons maintenance, weapons mate/demate and weapons handling. This also includes Plans and Scheduling, Munitions Control or Missile Maintenance Operations Center supporting these operations.

2. The scope and focus of the SI are determined jointly among QA, the OO/MX SUPT, and the Flight Chief.

3. (USAFE) Perform one SI quarterly on Plans and Scheduling (P&S). (T-2)

Table 7.4. Minimum Sampling Requirements & Maximum AQLs for PEs.

Tasks	Frequency ²	AQL
Common Weapons Maintenance		
General Maintenance (GM)	25% per quarter (USAFE) 50% (T-2)	4
Limited Life Component Exchange (LLCE) ³	25% per quarter (USAFE) 50% (T-2)	4
H1616/1700 Packaging and Backfill Operation	25% per quarter (USAFE) 50% (T-2)	2
Parachute Exchange (PC)	25% per quarter (USAFE) 50% (T-2)	4
Retrofit or Alteration (ALT) ⁴	25% per quarter (USAFE) 50% (T-2)	4
PAL Operations to include Unlock/Release	Determine Locally	2
Command Disable System	Determine Locally	1
All maintenance actions, documentation, and reporting associated with changing a retired weapon's status to inactive or active.	100% per quarter	1
Common Weapons Handling Tasks		
Transfer	10% per quarter	2

	(USAFE) 50% (T-2)	
Transport	10% per quarter (USAFE) 50% (T-2)	2
Safeguard Transport Upload/Download or Prime Nuclear Airlift Force Movement	50% per quarter	2 (based on each task observed)
RV/RS Tasks		
Assemble/Disassemble RV	25% per quarter	4
Install/Remove RV	25% per quarter	4
Install/Remove Aft Shroud	25% per quarter	4
RS Electrical Checkout	25% per quarter	4
FDE (Includes Mod 5 kit/Non-nuclear Verification for Vandenberg) ^{4, 5}	100% per quarter	Determine Locally
Mate/Demate RS to/from Missile Guidance Set (MGS)	10% per quarter	2
Launcher/Pylon Tasks		
ALCM Mate to Pylon	25% per quarter	4
ALCM Mate to Common Strategic Rotary Launcher (CSRL)	25% per quarter	4
ALCM/Gravity Bomb WSEP ⁷	100% per quarter	Determine Locally
Gravity Bomb Mate to RLA	25% per quarter	4
Mate/Demate Pylon to/from Load Frame	10% per quarter	4
Mate/Demate Launcher to/from Load Frame	10% per quarter	4
Payload Mate to Missile	25% per quarter	4
Mate/Demate MHU-196/204 Trailer with Launcher/Pylon	10% per quarter	4

Cruise Missile Tasks		
Engine Removal/Installation	10% per quarter	2
Missile Transfer	10% per quarter	1
Engine Prime	10% per quarter	1
Missile Fuel/Defuel	10% per quarter	2
Missile Level 1	10% per quarter	2
Loaded CSRL/Pylon Test	25% per quarter	1
Unloaded CSRL/Pylon Test	10% per quarter	2
ESTS Calibration Certification	10% per quarter	1
ESTS Operational Assurance Test	10% per quarter	1
General Tasks		
NWRM Component Packaging	25% per quarter	Determine Locally
TCTO, MCL, One Time Inspection ⁸	As a minimum, evaluate the first, last, and 10% per quarter.	Determine Locally
(USAFE) Module code-up operations involving Effective edition WS3	10% per quarter (T-2)	Determine Locally
(USAFE) Annual recode/rekey operation	10% (T-2)	Determine Locally
NOTES:		
<ol style="list-style-type: none"> 1. For the purposes of this table, a nuclear maintenance and inspection activity is any element or flight level organization that performs FDE activities, nuclear weapons maintenance, weapons mate/demate and weapons handling. 2. Required percentages apply to forecasted maintenance only, not to unscheduled operations performed as a result of failed launcher/pylon test, MGS failure, etc. A sampling of unscheduled operations should be evaluated as the opportunity arises. 3. This includes ALT 900 series maintenance. 4. QA must observe the first weapon retrofit, alteration or modification (does not apply to ALT 900 series). (T-3). 5. This applies to both the shipping and receiving units in the FDE process. QA shall watch all applicable operations in the RS build-up or tear-down process for systems selected for FDE, including the inspection of RS/RV components. (T-3). Assemble/disassemble operations may be counted as personnel evaluations, 		

including the packaging/unpackaging of components. After the fact inspections may be used by the evaluator to fulfill the 100% requirement. Appropriate AQL levels are applied to each applicable operation performed as part of the FDE.

6. In addition to Transfer, Transport and items identified under General Tasks, the following tasks apply to ICBM maintenance technicians only: Mate/Demate RS to/from MGS and FDE.
7. QA shall observe all WSEP operations involved in the build-up of the test package including warhead/bomb preparation for strike, required PAL operations, SI of launch gear prior to use, required warhead/bomb mate, required missile preparations, missile mate, CSRL loaded operation and a QVI of the fully assembled package in IMF after final supervisory inspections and prior to delivery to the flight line.
8. When agreed by QA and unit leadership, certain TCTOs, MCLs, and OTIs may be inspected as QVIs instead of PEs.

8.1.3. **(Added)** The AAAL fulfills the requirement from AFMAN 17-1302, Communications Security (COMSEC) Operations, for a WS3 COMSEC security access list. **(T-2)**

8.1.3.1. **(Added)** Monthly COMSEC Responsible Officer verifications will be performed and documented on the AAAL. **(T-2)**

8.6. **(Added)** Secure Weapons Location (SWL). Utilize the following procedures for SWL combination management. Additional SWL requirements are located in 11N-50-1010-1, Secure Transportable Maintenance System Operation and Maintenance Instructions, and AD 80-6 – EUCOM 6801.01, USAFE SUP 1&2, Nuclear Surety Management for the Weapons Storage and Security System(WSS). **(T-2)**

8.6.1. **(Added)** SWL Combination Management

8.6.1.1. **(Added)** Commanders will designate on the AAAL personnel authorized to receive SWL combinations. **(T-2)**

8.6.1.2. **(Added)** Designate personnel on the AAAL as either “A” or “B” (used to preclude one individual access to both combinations). **(T-2)**

8.6.2. **(Added)** SWL Container Combinations. Lock combinations for the SWL will be labeled as “A” combination lock and “B” combination lock. The top combination lock on the SWL will be known as the “A” combination lock. The bottom combination lock on the SWL will be known as the “B” combination lock. **(T-2)**

8.6.2.1. **(Added)** At no time will one person know or have access to both combinations. **(T-2)**

8.6.3. **(Added)** SWL Combination Changes. Authorized individuals must change SWL combinations when:

8.6.3.1. **(Added)** The lock is initially placed into use. **(T-2)**

8.6.3.2. **(Added)** At least once every calendar year. **(T-2)**

8.6.3.3. **(Added)** When the combination has been compromised. **(T-2)**

8.6.3.3.1. **(Added)** SWL combination compromise is defined as an unauthorized individual having knowledge of “A” combination or “B” combination that they are not authorized to possess or a combination that is not safeguarded. **(T-2)**

8.6.3.3.2. **(Added)** If a compromise of “A” or “B” occurs the unit must report the compromise to the squadron commander for an investigation. **(T-2)**

8.6.3.4. **(Added)** A person knowing the combination is no longer authorized access (e.g., removed from the AAAL/EAL) for any reason other than death. **(T-2)**

8.6.3.4.1. **(Added)** It is not necessary to change combinations if an individual is suspended from PRP, providing they remain on the AAAL/EAL. **(T-2)**

8.6.3.5. **(Added)** When any repair work has been performed on the SWL combination lock. **(T-2)**

8.6.4. **(Added)** Combination Documentation. Each SWL combination will have a separate SF 700, Security Container Information Form. **(T-2)**

8.6.4.1. **(Added)** Complete each SF 700, Security Container Information Form, in accordance with DODM 5200.01, Volume 3, DoD Information Security Program: Protection of Classified Information, and store in a separate GSA approved security container. **(T-2)**

Chapter 10 (Added)

LOAD MONITOR ELEMENT

10.1. **(Added) Senior Load Monitor (SLM).** The SLM is responsible to the Maintenance Flight CC for leadership, training, and supervision of assigned personnel in the Load Monitor Element. The SLM is the technical authority and advisor in the area of nuclear weapons loading operations on mission certified aircraft. The SLM will: **(T-2)**

10.1.1. **(Added)** Ensure load monitor certifying officials and load monitors are trained, certified, and evaluated in accordance with ACO Directive 75-5, Training and Nuclear Weapons Loading. **(T-2)**

10.1.2. **(Added)** Provide MMG/CC with load monitor certification status and quality trends of evaluations on the monthly MSEP summary. **(T-2)**

10.1.3. **(Added)** Ensure load monitors have a comprehensive knowledge of AFI 91-112, Safety Rules for US/NATO Strike Fighters and take appropriate action(s) to prevent violations during nuclear loading operations. **(T-2)**

10.2. **(Added) Aircraft Familiarization and Cockpit Safety Training.** Squadron Commanders will designate instructors. Load monitors designated as instructors will receive initial aircraft and cockpit safety training from the host unit during initial certification training. Other designated squadron instructors will receive their training from the load monitor instructors. Document this training on a letter signed by the host unit or load monitor instructor. **(T-2)**

10.2.1. **(Added)** Personnel trained as instructors will provide training to all custodial agents and custodial force members annually. Document annual training on AF Form 1098, Special Task Certification and Recurring Training, or if the aircraft and cockpit familiarization training is tracked by Squadron Training, forward an AF Form 2426, Training Request and Completion Notification or squadron equivalent form to the Squadron Training monitor. Maintain a copy of the AF Form 2426 or squadron equivalent form until training is updated on the Squadron Training product. **(T-2)**

10.2.2. **(Added)** The aircraft familiarization training program will include as a minimum: **(T-2)**

10.2.2.1. **(Added)** Cockpit entry and canopy opening procedures. **(T-2)**

10.2.2.2. **(Added)** Purpose, function and location of the canopy emergency release handle. **(T-2)**

10.2.2.3. **(Added)** Location and proper installation of ejection seat safety pins and devices. **(T-2)**

10.2.2.4. **(Added)** Location and purpose of cockpit AMAC units. **(T-2)**

10.2.2.5. **(Added)** Location and purpose of tamper detection indicators (seals). **(T-2)**

10.2.2.6. **(Added)** Aircraft danger areas. **(T-2)**

10.2.2.7. **(Added)** Review of AFI 91-112 Safety Rules For US/NATO Strike Fighters. **(T-2)**

CHARLES S. CORCORAN, Brigadier General, USAF
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Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

- (Added) AFI 91-112, *Safety Rules for US/NATO Strike Fighters*, 1 April 2015
- (Added) 11N-50-1010-1, *Secure Transportable Maintenance System Operation and Maintenance Instructions*, 2 June 2017
- (Added) AFMAN 17-1302, *Communications Security (COMSEC) Operations*, 1 February 2017
- (Added) ACO 80-6 ECI6801.01 USAFESUP2, *Nuclear Surety Management for the Weapons Storage and Security System (WS3)*, 26 October 2013
- (Added) ACO 80-6 ECI6801.01 USAFESUP1, *Nuclear Surety Management for the Weapons Storage and Security System (WS3)*, 18 November 2013
- (Added) ACO Directive 75-5, *Training and Nuclear Weapons Loading*, 1 March 2018

Prescribed Forms

None

Adopted Forms

AF Form 847, *Recommendation for Change of Publication*

Abbreviations and Acronyms

- (Added) **ACO**—Allied Command Operations
- (Added) **AMAC**—Aircraft Monitor and Control
- (Added) **COMSEC**—Communications Security
- (Added) **STMS**—Secure Transportable Maintenance System
- (Added) **WSV**—Weapons Storage Vault