

**BY ORDER OF THE COMMANDER  
MOUNTAIN HOME AFB**

**MOUNTAIN HOME AFB INSTRUCTION 21-  
203**



**10 MARCH 2011  
Certified Current, 10 March 2015  
Maintenance**

**STORAGE, TRANSPORTATION,  
HANDLING, ACCOUNTABILITY, AND  
CONTROL OF IMPULSE CARTRIDGES**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This publication establishes procedures for the storage and handling of explosive impulse cartridges. It applies to all maintenance personnel assigned to the 366th Aircraft Maintenance Squadron (366 AMXS). The section noncommissioned officer in charge (NCOIC) of each work center will ensure compliance. This publication does not pertain to Air National Guard units or Air Force Reserve Command. Ensure all records (e.g., AF Form 2047; AF Form 2005; AFTO Form 350; documentation of quarterly visual checks; 24-month continuity checks; test and inspection records, etc.) created as a result of processes prescribed in this publication are maintained in accordance with (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) located at <https://www.my.af.mil/gcss-af61a/afirms/afirms/>. Contact supporting records managers as required. Refer recommended changes and questions regarding this publication to the office of primary responsibility (OPR) using AF Form 847, Recommendation for Change of Publication, route AF Forms 847 through the base publications and forms manager.

### ***SUMMARY OF CHANGES***

Changed paragraph 1.2. to read, "Transportation: As specified in AFMAN 91-201, chapter 8." Added "Locks assigned NSN 5340-00-158-3805, NSN 5340-00-158-3807, NSN 5340-01-408-8434 or NSN 5340-01-269-9345, all meet the prescribed CID" to paragraph 6.2.2.. Changed the last two sentences of paragraph 6.2.2. to read, "If the truck is left unattended on the flightline, use the above procedures to secure explosives. Do not leave explosives unattended in vehicles off the flightline/in unsecured areas." Added paragraph 6.2.3. Chock all vehicles when driver's seat is left unoccupied and impulse cartridges are being transported.

#### **1. Explosive Limits:**

1.1. Storage. Limited to the minimum quantities needed to support requirements IAW AFMAN 91-201, Explosives Safety Standards.

1.2. Transportation. As specified in AFMAN 91-201, chapter 8.

**2. Personnel Limits.** Transportation is limited to the minimum number of personnel required for explosive operation(s) in progress.

**3. Safety Precautions.** Comply with AFMAN 91-201.

#### **4. Location of Operation:**

4.1. Storage. In each aircraft maintenance unit (AMU), as designated by the AF Form 2047, Explosives Facility License, the unit weapons safety representative will coordinate with the 366th Fighter Wing, Weapons Safety (366 FW/SEW), 366th Civil Engineer Squadron, Fire Department (366 CES/CEF), 366th Security Forces Squadron, Resource Protection (366 SFS/S5L), and the 366th Equipment Maintenance Squadron, Munitions Accountable Systems Officer (MASO) (366 EMS/MXMW), any time the explosive storage locker is relocated.

4.2. Transportation. Transportation is limited to and from storage location, explosive loading operations, and the munitions storage area. Utilize designated explosive routes whenever possible.

**5. Emergency Procedures.** When an immediate dangerous explosive situation exists with impulse cartridges, shut down all operations in the immediate vicinity and evacuate nonessential personnel within a circumference of at least 300 feet. Call 366 MOS/MXOOM (Maintenance Operations Center (MOC)) at 828-5900, describe the specific hazard and ensure the Emergency Communications Center is contacted.

#### **6. Equipment Requirements:**

6.1. Storage:

6.1.1. Keep impulse cartridges in grounded metal cabinets that provide adequate security and protection from the elements. The lock used to secure the storage container will meet or exceed requirements identified in AFI 31-101, Integrated Defense.

6.1.2. Storage containers will have an approved grounding system with an accessible grounding bar. The additional duty weapons safety noncommissioned officer (NCO) will document a visual check of the grounding system every quarter, accomplish and document a 24-month continuity check from locker-to-ground and keep these test and inspection records for a minimum of six inspection cycles IAW AFI 32-1065, Grounding Systems. If there is a suspected break in continuity, re-accomplish a 24-month continuity check.

6.1.3. Store impulse cartridges removed from hermetically sealed containers (protected) in a waterproof or water-repellent container at all times prior to loading (in breeches). Cartridge propellants are susceptible to moisture absorption with consequent deterioration of performance. Place impulse cartridges, not in original shipping containers, in wooden or other locally manufactured cutouts to prevent item-to-item contact. Paint impulse cartridge cans red with easily identifiable markings in white to identify contents.

6.1.4. Fire extinguishers and fire symbols are required IAW AFMAN 91-201 and the AF Form 2047 remarks section.

## 6.2. Transportation:

6.2.1. Transportation requirements identified in AFMAN 91-201, Section 8G-Transportation and Movement by Motor Vehicle and Material Handling Equipment. Metro type vehicles may be used. Do not use pick-up trucks with plastic bed liners unless the metal container is electrically bonded to the vehicle.

6.2.2. Place impulse cartridges in storage containers IAW AFMAN 91-201 under "Transporting Electro-Explosive Devices." Immobilize storage containers in the vehicle to prevent movement or unauthorized removal. Storage container lock will meet or exceed requirements identified in Department of Defense Manual (DODM) 5100-76, Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives. Locks assigned NSN 5340-00-158-3805, NSN 5340-00-158-3807, NSN 5340-01-408-8434 or NSN 5340-01-269-9345, all meet the prescribed CID. For vehicles used temporarily, carry two fire extinguishers with a minimum rating each of 2A:10BC with the vehicle and block, brace, or otherwise immobilize the explosive storage container to prevent movement. If the truck is left unattended on the flightline, use the above procedures to secure explosives. Do not leave explosives unattended in vehicles off the flightline/in unsecured areas.

6.2.3. Chock all vehicles when driver's seat is left unoccupied and impulse cartridges are being transported.

## 7. Operating Procedures:

7.1. Weapons section Noncommissioned Officers In Charge (NCOIC) manage storage of impulse cartridges.

7.2. Keep cartridge control log with the locker. The appropriate weapons supervisor performs inventory and signs off the control log before and at the end of each shift.

7.3. Weapons section NCOICs will limit access to cartridge locker. Post a list of personnel authorized access to cartridge locker with a copy of this publication available on the outside of the locker.

7.4. Keep serviceable and unserviceable cartridges separated during storage and transportation. Clearly mark the shelf or area designated for unserviceable cartridges inside the storage container "Unserviceable" and separate from serviceable cartridges. Utilize opened shipping containers to store serviceable and unserviceable cartridges in their designated areas. Return unserviceable cartridges to 366 EMS/MXMWMB (Munitions Inspection Section), with an AF Form 2005, Issue/Turn-in Request, or through Electronic Documentation (EDOC).

7.5. Using AFTO Form 350, Repairable Item Processing Tag, tag impulse cartridges involved in malfunctions with the aircraft tail number, station and date. Turn these cartridges into 366 EMS/MXMWMB for disposition pending completion of investigation.

7.6. Keep cartridges for transient aircraft separate in the cartridge locker and identified by unit and mission design series. Coordinate long-term storage and impulse cartridges not licensed for cart locker with 366 EMS/MXMWMB for storage.

7.7. Munitions account custodians will ensure enough serviceable cartridges are on hand to meet mission requirements. Additional cartridges may be temporarily authorized to be stored during generations/deployments, additional limits and instructions are annotated in the remarks section of the AF Form 2047.

7.8. Initiate an AF Form 2005 or EDOC for aircraft departing or returning from depot maintenance or transfer.

7.9. Impulse cartridges pre-use inspections will adhere to Technical Order (T.O.) 11A18-7-7, Storage and Maintenance Procedures for Aircraft External Stores Jettison Impulse Cartridges, and individually marked IAW T.O. 1F-XX(X)-33-1-2, Nonnuclear Munitions Basic Information and Nonnuclear Munitions Loading Procedures.

7.10. Preferred method of turning in FOB/unserviceable impulse cartridges is in the original shipping containers; therefore storage of empty containers inside the cart locker is authorized. Store empty containers in a separate area of the cart locker, unless utilized as identified in paragraph 7.4.

## **8. Prescribed and Adopted Forms:**

### 8.1. Prescribed Forms:

No forms prescribed.

8.2. Adopted Forms:

AF Form 847, Recommendation for Change of Publication

AF Forms 2005, Issue/Turn-in Request

AF Form 2047, Explosives Facility License

AFTO Form 350, Repairable Item Processing Tag

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

MHAFBI 31-101, Integrated Defense (ID) Instruction (FOUO), 30 March 2010  
 AFI 31-101, Integrated Defense (FOUO), 8 October 2009  
 AFI 32-1065, Grounding Systems, 1 October 1998  
 AFMAN 33-363, Management of Records, 1 March 2008  
 AFMAN 91-201, Explosives Safety Standards, 17 November 2008  
 DODM 5100-76, Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives, 12 August 2000  
 TO 1F-XX( )-33-1-2, Nonnuclear Munitions Basic Information and Nonnuclear Munitions Loading Procedures, 16 August 2010  
 TO 11A-18-7-7, Storage and Maintenance Procedures for Aircraft External Stores Jettison Impulse Cartridges, 9 November 2009

***Abbreviations and Acronyms***

**AF**—Air Force  
**AFMAN**—Air Force Manual  
**AMU**—Aircraft Maintenance Unit  
**AMXS**—Aircraft Maintenance Squadron (366 AMXS)  
**CEF**—Fire Department (366 CES/CEF)  
**CES**—Civil Engineer Squadron (366 CES)  
**EMS**—Equipment Maintenance Squadron (366 EMS)  
**FW**—Fighter Wing (366 FW)  
**IAW**—In Accordance With  
**MASO**—Munitions Accountable Systems Officer  
**MOS**—Maintenance Operations Squadron (366 MOS)  
**MXMW**—Munitions Accountability Security Officer (366 EMS/MXMW)  
**MXMWMD**—Munitions Inspection Section (366 EMS/MXMWMD)  
**NCO**—Noncommissioned Officer  
**NCOIC**—Noncommissioned Officer in Charge  
**S5L**—Resource Protection (366 SFS/S5L)  
**SEW**—Weapons Safety  
**SFS**—Security Forces Squadron (366 SFS)