

**BY ORDER OF THE COMMANDER
18TH WING (PACAF)**



18TH WING INSTRUCTION 21-143

**26 SEPTEMBER 2012
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**Maintenance
HANDLING, STORAGE AND
TRANSPORTATION OF IMPULSE
CARTRIDGES, PYROTECHNICS, AND
AMMUNITION**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements AFPD 21-1, *Managing Aerospace Equipment Maintenance*. It establishes local procedures for handling, storing and transporting impulse cartridges and applies to the 18th Wing at Kadena AB. It does not apply to the Marine Wing Liaison Kadena which follows the guidance of NAVSEA OP-5. This publication does not apply to the Air National Guard or US Air Force Reserve. 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's chain of command. 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 Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS) located at https://www.my.af.mil/afirms/afirms/afirms/rds/rds_series.cfm

SUMMARY OF CHANGES

This publication of 18 WGI 21-143, revises 18 WGI 21-143 dated 3 February 2004. It updates references, changes verbiage to clarify requirements for handling, storage, and transportation of impulse cartridges.

1. Responsibilities. Unit commanders and weapons supervisors will ensure compliance with this wing instruction and other applicable technical data.

2. Operating Locations. All weapons personnel will accomplish procedures in this wing instruction in approved aircraft parking areas, storage locations containing a current explosive facility license or an explosive site plan.

3. Personnel Limits. Weapons personnel will ensure the following:

3.1. Strictly adhere to personnel limits posted on the explosive facilities license at each storage location.

3.2. Restrict the number of people riding in the vehicle when transporting munitions to the minimum necessary to accomplish required operations.

3.3. STOP all explosive operations when visitors are present. Visitors are non-essential personnel (not associated with explosives) with limited access.

4. Explosive Limits. Weapons personnel will ensure the following:

4.1. Ensure quantities and types of munitions stored will not exceed the limits prescribed by the current explosive facility license.

4.2. The quantity of impulse cartridges, pyrotechnics, and ammunition transported will be kept to the minimum necessary to perform operations.

5. Training and Safety. Weapons supervisors will ensure the following:

5.1. Only personnel trained and qualified in explosive safety procedures performs munitions activities.

5.2. Munitions handling operations will only be authorized in a designated explosive area.

5.2.1. Metal containers, pyrotechnics, and ammunition will not be tumbled, dragged, dropped, thrown or walked on. Exercise special precautions to avoid bumping primers of ammunition removed from shipping containers and those loaded into magazines.

5.2.2. Impulse cartridges, and other such electrically or mechanically initiated devices will be handled/transported in protective containers. Use containers designed to prevent item-to-item contact.

5.3. Fire symbols are posted as required.

5.3.1. Fire-fighting information is posted in a conspicuous location at each storage location.

5.3.2. Fire extinguishers are positioned (as required by the explosive facility license) at each storage facility.

5.4. Vehicles are inspected for serviceability and ensure two portable 2A:10BC rated fire extinguishers are available.

6. Procedures. Weapons supervisors will ensure the following:

6.1. Key and lock control procedures meets the requirements of KADENAABI31-101, *Security*.

6.2. Each impulse cartridge is carefully inspected for serviceability prior to removing from the storage facility.

6.3. All procedures outlined in technical orders, checklists, instructions and local wing instructions are complied with during munitions handling activities.

6.4. Turn in all unserviceable impulse cartridges, pyrotechnics, and ammunition IAW AFMAN91-201 18WGSUP_I, *Explosives Safety Standards, Paragraph 2.35.1*.

6.5. Impulse cartridges from transient or TDY aircraft may be stored at AMU/HMU licensed locations. Transient impulse cartridges will be clearly separated and marked to prevent intermixing with Kadena AB assets. Ensure authorized quantities of impulse cartridges listed on the explosive facility license are not exceeded. If adequate storage capability cannot be provided, contact 18 MUNS personnel to store transient or TDY aircraft impulse cartridges. When required, Weapons Standardization (WS) personnel will coordinate with AMU/HMU Section NCOIC, or equivalent, to gain access and store impulse cartridges for transient or TDY aircraft in AMU/HMU licensed locations.

7. Inventory Procedures.

7.1. Weapons expeditors will conduct a 100 percent inventory of impulse cartridges (stored and installed) at the end of every shift and immediately after the last flight of the day. Shift change inventories will be a standard task entry on the daily Specialist Dispatch Control Log (2430); however, the actual inventory record will be maintained and documented in a log at the licensed location.

7.2. The munitions account custodian or weapons expeditor will conduct a 100 percent inventory and inspection of all impulse cartridges every Friday, or the last duty day of each week. In the 33 HMU, the munitions custodian/shift supervisor will conduct a 100 percent inventory of Weapons Section controlled munitions every Friday, or last duty day of each week.

7.2.1. Inspect cartridges for serviceability and segregate as appropriate.

7.2.2. Explosives in storage will be segregated according to type, lot number, and condition code. Different items will be stored in separate containers. Update munitions log with current quantities on-hand.

7.3. The weapons expeditor will maintain documentation of the weekly inventory and inspection of the munitions storage facility. Inventory and inspection documentation will include the following information as a minimum:

7.3.1. Type of impulse cartridges.

7.3.2. Total quantity of impulse cartridges currently maintained. Include the location(s) of all impulse cartridges.

7.3.3. Total quantity of serviceable and unserviceable impulse cartridges segregated by lot number and condition code.

7.3.4. The account custodian or weapons expeditor's signature and date of inventory and inspection.

8. Emergency Procedures.

8.1. Personnel involved in munitions handling activities will be thoroughly familiar with emergency procedures and knowledgeable on the use of fire extinguishers.

8.2. In the event of injury, personnel will take the following actions:

8.2.1. Notify the Maintenance Operations Center (MOC) by the most expedient means possible.

8.2.2. Administer first aid until assistance arrives.

8.3. In the event of fire, personnel will call 911 and give location and aircraft tail number (if applicable), or notify the MOC who in turn will notify the fire department.

8.3.1. Essential Personnel will take the following actions:

8.3.1.1. The on-scene commander, or senior ranking individual, determines who are essential emergency personnel and what distances they shall maintain.

8.3.2. If munitions are not engulfed in flames, immediately attempt to fight the fire to prevent it from spreading and engulfing munitions.

8.3.3. Evacuate non-essential personnel as follows:

8.3.3.1. When explosives are not involved in fire, such as dropped munitions or partially armed munitions, clear the area initially to a distance of 300 feet (125 feet for simulators and smoke producing devices). After evaluation of the situation, the on-scene commander may adjust the withdrawal distance for non-essential personnel.

8.3.3.2. The on-scene authority will direct minimum withdrawal distances for type of explosives involved in fire.

9. Distribution. Each AMU/HMU will maintain a minimum of two copies of this wing instruction. Weapons Section NCOIC will post a copy of this wing instruction in each licensed location/impulse cartridge storage facility and in each weapons expediter's continuity book/vehicle.

MATTHEW H. MOLLOY
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Commander, 18th Wing

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

AFI21-101, *Aerospace Equipment Maintenance Management*, 26 July 2010

KADENAABI31-101, *Security*, 24 March 2008

AFMAN91-201, *Explosive Safety Standard*, 12 January 2011

Adopted Forms

AF Form 847, *Recommendation for Change of Publication*