

Safety

EXPLOSIVE SAFETY MISHAP PREVENTION PROGRAM

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SUMMARY OF REVISIONS

This is a revision of 911 AWPAM 91-201, 1 July 1997. It makes some minor administrative changes to the previous publication and updates the format.

1. Basic Goals:

1.1. The basic goal of this pamphlet is to eliminate all explosive mishaps, and to minimize the extent of injuries and property damage for those mishaps that may occur due to “Acts of God” or deliberate unauthorized use of explosives. Due to the nature of explosives, and their obvious characteristics, all personnel involved with explosives must be trained to the degree necessary, relative to their individual exposure to the explosives.

1.2. Each person involved with explosives, either directly or indirectly, must constantly maintain a safety minded attitude, be aware of the hazards involved, and know the proper procedures in reporting unsafe acts or mishaps.

2. References:

2.1. Safety related publications

AFI 31-209 – USAF Resource Protection Program
AFPD 32-30 – USAF Explosive Ordnance Disposal Program
AFI 32-3001 - Explosive Ordnance Disposal Program
AFI 36-2226 - Combat Arms Training and Maintenance Program Management
AFMAN 91-201 - Explosive Safety Standards
AFI 91-202 – USAF Mishap Prevention Program
AFI 91-204 - Safety Investigations and reports
AFOSH STD 127-66 - General industrial operations
T.O. 00-25-172 - Ground Servicing of Aircraft and Static Grounding/Bonding
T.O. 00-25-175 - Ground Servicing and Aircraft Servicing of Equipment
T.O. 11A-1-33 - Explosive loaded aircraft
T.O. 11A-1-46 - Fire Fighting Guidance
DOD 6055.9 STD – DoD Explosive Safety Standards

2.2. Individual explosive items publications (item Technical Orders)

3. Key Persons and responsibilities involved with the explosive safety programs

3.1. Safety Office:

3.1.1. The safety office is responsible for developing guidelines for the explosive safety program. This pamphlet establishes the minimum requirements for commanders and weapons safety representatives to use to meet the appropriate safety requirements.

3.1.2. The safety office will perform annual inspections as well as no notice spot inspections to ensure the program is maintained properly and individuals with munitions requirements maintain a safe working environment.

3.1.3. The safety office is also responsible for the investigation of explosive safety mishaps and respond appropriately to Hazard Reports (AF Form 457) submitted by individuals.

3.1.4. The safety office provides annual training to weapons safety representatives and unit designated trainers, who in-turn will train personnel in their sections.

3.1.5. Annually, the safety office, along with the unit training office will approve all lesson plans used to train weapons safety.

3.2. Unit Commanders:

3.2.1. Unit commanders must designate, in writing, individuals assigned as Weapons Safety Representative.

3.2.2. Unit Commanders must be familiar of the requirements to develop and maintain an explosive safety program and support individuals designated as Weapons Safety Representatives.

3.3. Weapons Safety Representatives:

3.3.1. Weapons safety representatives must work with the safety office to develop required documentation to support the explosive safety program. Once developed, the explosive safety program must be maintained through annual inspections by the safety office and constant self-evaluation using approved self-inspection checklists.

3.3.2. Weapons safety representatives must develop explosive safety training plans that are approved by their training managers and the safety office. Ensure explosive safety training is documented in individual training records. The Safety Office can assist in developing these training plans.

3.3.3. Weapons safety representatives must ensure workers involved with explosives are properly trained on the hazards, the proper operating procedures, and follow established guidelines when performing explosive operations.

3.3.4. Weapons safety representatives must constantly stay abreast of changes in operating procedures and ensure all persons involved with the explosives are aware of any changes that arise involving their assigned munitions. Unit Commanders and the Safety Office should also be informed of significant changes in individual munitions requirements.

4. Inspection and Evaluation program:

4.1 Inspection and evaluation is a means of detecting problem areas and correcting them prior to mishap occurrence.

4.2. In order to ensure close personal contact with weapons safety representatives; the safety office will conduct spot inspections on a periodic basis as well as official annual inspections on all sections using explosives

4.2.1. Some areas that will be evaluated will be as follows

4.2.1.1 Command Support

4.2.1.2 Explosive Safety Training Plans

4.2.1.3. Are all personnel working with explosives receiving required training?

4.2.1.4. Is adequate documentation available identifying annual explosive safety training is being conducted?

4.2.1.5. Do personnel responsible for transporting explosives have the required documentation? (AF Form 483, Certificate of Competency and training records are documented showing required training)

4.2.1.6. Munitions are being stored properly IAW AFMAN 91-201

4.2.1.7. Explosive License is current and completed properly

4.2.1.8. Net Explosive Weight (NEW) and personnel limitations are not exceeded

4.2.1.9. Appropriate operating instructions and pre-task safety briefings are available and personnel are aware of the requirements

4.2.1.10. Availability and use of applicable Technical Data

- 4.2.1.11. Appropriate grounding, with documentation of ground test date, as applicable
- 4.2.1.12. Proper fire symbols, chemical warning symbols, and fire fighting direction symbols are posted on buildings containing explosives.
- 4.2.1.13 Safety, fire, and security are aware of current fire symbols posted on explosives storage locations.
- 4.2.2.13. Good housekeeping is practiced

5. Mishap Investigation and Reporting:

- 5.1 AFI 91-202, *USAF Mishap Prevention Program* will be adhered to the maximum extent
- 5.2 The safety office, as outlined in AFI 91-204 will conduct mishap investigations and reporting.
- 5.3 Personnel involved in mishaps must notify their supervisor immediately, who in turn will notify the safety office as soon as possible.

6. Exercise Munitions:

- 6.1. Units engaged in training exercises, which require training munitions, will comply with the following procedures.
 - 6.1.1. Designate responsibilities for controlling blank and live ammunition in the training environment, to include, but not limited to, the separation of training and weapons courier ammunition.
 - 6.1.2. Develop step by step instructions for issuing, turn-in, inventory and control of live and blank ammunition. Include location of use, method of employment, and actions to be taken during emergencies or abnormal conditions.
 - 6.1.3. Perform and document inventories of live and blank ammunition at the start of training, change of shifts and every end of day. Report out of balance conditions to the proper authorities immediately and suspend operations until the out of balance condition is resolved. If out of balance cannot be rectified, terminate exercise.
 - 6.1.4 Identify personnel in writing that are responsible for the storage, issue, receipt and certification of blank and live ammo.
 - 6.1.5. Ammunition clips and containers with live ammunition will be marked with **RED** in a conspicuous area. Blank ammunition clips and containers will be marked with **YELLOW**.
 - 6.1.6. Identify procedure for separation and certification of live and blank ammo.

6.1.7. Prior to the start or termination of training check all ammo pouches, rucksacks, mobility bags and magazines for live ammunition.

6.1.8. Brief personnel regarding their responsibilities from a safety and accountability standpoint. As a minimum, maintain the records of the briefing for 90 days after completion of the exercise. Records must include the following:

6.1.8.1. Name of personnel who received the briefing.

6.1.8.2. Date briefing took place.

6.1.8.3. A description, copy, or location of briefing materials used to brief personnel

6.1.8.4. The name of the person or persons who provided the briefing.

6.2. The 911 MXS munitions section and MASO will ensure the following.

6.2.1. Blank ammo will be issued in original packaging and inspected prior to issue to any unit. Exercise munitions will be controlled to preclude any items from being issued or tampered with prior to day of deployment.

6.2.2. Battlefield simulators and smoke grenades of any type will be controlled by the munitions section and will only be issued to personnel who have completed initial EOD training and have a current AF Form 483 Certificate of Competency.

6.3.1. All munitions residue will be checked for live rounds, and misfires prior to turn-in.

6.4.1. Reconciliation of expenditures and turn-in of unused ammunition will be in accordance with sections 5.6 and 5.7 of 911 AWI 21-201 *Munitions Management*.

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