

**BY ORDER OF THE COMMANDER  
433 AIRLIFT WING**

**433 AIRLIFT WING INSTRUCTION 91-202**

**11 SEPTEMBER 2009**



**Safety**

**BLANK AMMUNITION SAFETY**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This instruction implements Air Force Policy Directive (AFPD) 91-2, *Safety Programs*. It provides guidance and procedures on creating, managing and disseminating directive and non-directive publications and forms throughout 433 Airlift Wing (AW). It establishes the directed procedures for using and handling blank ammunition. It outlines responsibilities, issue, turn-in, expenditure, and controlling and inventory procedures, emergency or abnormal conditions action and safety according to Air Force Manual (AFMAN) 91-201, *Explosive Safety Standards*, paragraph 2.14, and applicable supplements. Refer recommended changes and questions about this publication to the Office of Primary Records (OPR) using the Air Force Information Management Tool (AF IMT) 847, *Recommendation for Change of Publication*; route AF IMT 847s from the field to the appropriate functional chain of command. OPR has determined that no waivers may be granted for any part of the publication. Ensure that all records created as a result of processed prescribed in this publication are maintained in accordance with to AFMAN 33-363, *Management of Records* and the disposed of in accordance with Air Force Records Disposition Schedule (RDS) located at <https://www.my.af.mil/gcss-af61a/afrims/afrims>.

**1. General.** To ensure the safe use of munitions during training, strict adherence to instruction is required. Safety principles outlined are also applicable to off-base evaluation/ training sites when not in conflict with host base regulations. 433rd AW members will coordinate with host base safety personnel to ensure local safety regulations are being followed. All personnel who handle, function, and/or transport explosives addressed in this instruction must receive Weapons Safety training. Personnel performing operations outlined in this instruction must complete and forward an explosives risk assessment to Wing Safety prior to each exercise.

## 2. Responsibilities:

- 2.1. It is the responsibility of all commanders or their designated representatives to ensure that live ammunition is not introduced into a training environment where live and blank ammunition could be commingled or mistaken for each other.
- 2.2. It is the responsibility of Munitions Accountability Systems Officer (MASO), to ensure that customers receive the proper blank ammunition requested.
- 2.3. It is the responsibility of the Munitions Inspector to visually inspect all blank ammunition to verify that no live ammunition has been commingled with blank ammunition.
- 2.4. Users are directly responsible for the control and use of ammunition issued to them for either real world or exercise purposes. Accountability of assets, to include expenditures, will be validated upon the issue and turn- in of the assets, at the beginning and end of each shift, or whenever required to eliminate a discrepancy.

## 3. Issue, Turn-In, Expenditure, and Controlling Procedures:

### 3.1. Issue:

- 3.1.1. The procedures for issuing, turn- in, and reporting expenditures are located in the Munitions Customer Guides supplied to the customer account representative by the MASO.
- 3.1.2. All assets will be issued from munitions storage area in proper shipping configuration.
- 3.1.3. Once assets are issued to a custody account, it is the responsibility of that organizational commander or designated representative to issue the ammunition to their personnel using an Air Force (AF) Form 1297, *Temporary Issue/Receipt Document*. Forms will be maintained for a period of 90 days from the date of the exercise termination.
- 3.1.4. Once issued to an authorized individual, the ammunition may be distributed to those persons requiring munitions for training purposes as long as all persons are identified and briefed on safety and accountability. Combat Arms (CA) trained personnel will supervise the issue **all Blank Ammunition**.
- 3.1.5. Personnel and equipment will be inspected to ensure that no live rounds of ammunition are introduced into an exercise/training environment.
- 3.1.6. Units must provide training to emphasize safe handling, weapon operation, use of blank and bird control ammunition, and operator maintenance. This training should be documented in The Career Field Education and Training Plan (CFETP), or on AF Form 1098, *Special Task Certification and Recurring Training*.
- 3.1.7. Under no circumstances will live and blank ammo be issued to other than Security Forces personnel without the supervision of a Combat Arms Instructor or an individual trained and qualified in accordance with AFMAN 91-201, Air Force Reserve Command (AFRC) Supplement paragraph 2.14.1.10.

### 3.2. Turn- in:

3.2.1. All unexpended rounds will be returned to the point of issue, along with any dud/damaged ammunition, upon completion of the exercise. Commanders or their designated representatives will ensure all personnel and equipment are inspected for any live rounds, and that live and blank ammunition is segregated.

3.2.2. All unexpended munitions will be returned to their original containers according to lot number. The quantity will be annotated on a piece of tape placed over the original quantity.

3.2.3. Commanders or their designated representatives will visually inspect all ammunition turned- in. Segregate the live, blank and expended rounds and return it to the munitions storage area, in the original containers, upon termination of the exercise.

### 3.3. Controlling:

3.3.1. Commanders or their designated representatives will monitor the installation/removal of blank ammunition from magazines.

3.3.2. During exercises involving training munitions, all magazines loaded with “Blank” ammunition will be marked with the color blue. Use blue paint or blue tape a minimum of 3” wide on the bottom 2/3 of the magazine to mark magazines loaded with blank munitions.

3.3.3. Live ammo is prohibited in the exercise area unless absolutely necessary.

3.3.3.1. Personnel armed with live ammo are prohibited from participating in any exercise involving blank munitions.

3.3.3.2. When it is necessary to have live ammo present at an exercise involving blank Munitions for real world security; the guard weapon should be an M9 to prevent commingling of training and live munitions.

**3.3.3.2.1. If the guard weapon is an M16/M-4, then the 30 round magazines loaded with live ammo will be marked with red tape or paint no less than 3” wide visible on the bottom 2/3 of the magazine.**

3.3.4. At no time will blank ammunition be fired through a weapon that does not have a Blank Firing Adapter (BFA) properly installed.

**4. Explosives limits**, including the hazard class/division and compatibility group of the explosives involved (See Table 1).

**Table 1. Munitions involved.**

TYPE	QTY	HAZCLASS	COMP
Ctg. 5.56MM Blank M200	10000	1.4	S

2. Ctg. 7.62MM Blank M82 Linked	7500	1.4	S
3. Ctg. 5.56MM Blank SAW Linked	7500	1.4	S
4. Fze Grn Hand Prac M228	200	1.4	S
5. Grn Hand Smoke Green M18	16	1.4	G
6. Grenade Hand Smoke Red M18	16	1.4	G
7. Grenade Hand Smoke Yellow M18	16	1.4	G
8. Grenade Hand Practice	32	1.4	G
9. Mine Antipersonnel XM68 Inrt	4	None	
10. Simulator Explosive	50	1.3	G
11. Flare Surface Trip M49A1	64	1.3	G
12. Simulator Hand	50	1.3	G
Grenade			

M116A1			
13. Sig Illum Grnd White Star M127A1	72	1.3	G

4.1. Quantity shown is an example of minimum quantity required to complete the assigned exercise objective.

4.1.1. **Simulators and Smoke Producing Munitions.** See paragraph 2.35 AFMAN 91-201 for licensing requirements. The following applies to the use of these devices during exercises and training:

4.1.2. Only United States Air Force (USAF) stock-listed items are authorized for use. Other military services will use Department of Defense (DoD) approved items only, when using USAF ranges or facilities.

4.1.3. Only trained personnel can prepare and activate these devices. Qualified personnel will provide training on an annual basis to personnel whose duties require them to initiate training simulators. The qualified personnel providing training will be determined locally but may be from EOD, munitions, or weapons safety. These qualified trainers must have had at least four hours of classroom instruction, passed a written test and be qualified to handle, maintain and inspect these items. It is the responsibility of the user organization to request training and maintain training records. Higher headquarters evaluation teams using these devices must present proof of training to the base safety office, prior to use.

4.1.4. AFRC qualified personnel are those individuals who are trained and certified by EOD to provide simulator and smoke producing munitions training to other base personnel. As a minimum, training will be both academic and practical. Academic training includes item description and associated hazards; safety and handling precautions; technical data warnings/cautions; pre-use/post-use inspection criteria; misfire, DUD, and munitions residue disposition procedures. Practical training will not commence prior to successful completion of the academic portion.

4.1.5. Minimum Distances.

4.1.6. Personnel or vehicle: Maintain a minimum of 125 feet separation. Personnel who initiate these munitions may be closer than 125 feet, but they should be as close to 125 feet as possible and have their back to the munitions. *Exception:* no specific distance is required for non-toxic colored smoke grenades. Avoid the smoke or follow actions required in Table 2.3 (AFMAN 91-201)

4.1.7. Smoke from grenades and pots is sometimes toxic in high concentrations. Contact Environmental Management and the Fire Department prior to use. These items, along with generators and flares present a fire hazard. Remove combustible materials before functioning. Consider winds and fire hazards such as dry grass or fire bans. Consider using a barrier to control spread of heat during functioning of grenades and smoke pots.

4.1.8. Ground burst or hand grenade simulators present a blast hazard. Exercise caution around people, facilities and equipment. Free the area of combustible material within a ten feet radius. Monitor for proper functioning and disposal of residue. Notify EOD or other qualified personnel when munitions malfunction. The on-scene commander will determine minimum withdrawal distance for malfunctioned ground burst or hand grenade simulators for the given situation. This distance will never be less than the minimum distances given in paragraph 2.24.2. AFMAN 91-201 or applicable item Technical Order (TO), whichever is greater.

4.2. **Only qualified personnel** are able to prepare and activate simulators and smoke producing munitions. Personnel will receive annual training to use these types of assets.

**5. Exact location and method of employment:**

5.1. The commander will appoint an Exercise Team Chief (ETC).

5.2. The ETC will prepare a risk assessment and detailed list of munitions authorized for use in the exercise to include exact locations according to AFMAN 91-201 paragraph 2.16.

5.3. Method of employment will be in accordance with this instruction, its attachments, and all applicable technical data.

**6. Personnel limits, including workers and others:** See AFMAN 91-201, Para 2.5

6.1. Supervisors:

6.2. Workers:

6.3. Casuals:

**6.4. Safety requirements, to include special equipment requirements:**

6.4.1. Two 2A: 10BC fire extinguishers mounted on the explosives transport vehicle.

6.4.2. First aid kit, National Stock Number (NSN) 6545-00-116-1410 or suitable substitute).

6.4.3. Radios (as required).

6.4.4. Wheel chocks.

6.4.5. Leather gloves when handling or moving munitions containers.

6.4.6. Wooden dunnage for separation of munitions containers in stacks.

6.4.7. Hand tools for opening/closing munitions containers.

6.4.8. Cargo tie-down straps.

6.4.9. Applicable Operating Instructions.

6.4.10. Eye protection (as required).

6.4.11. Hearing protection (as required).

6.4.12. Fire fighting/chemical protective equipment at locations where munitions are used or stored.

6.4.13. Munitions residue containers.

6.4.14. Appropriate Fire/Chemical Hazard Symbols will be posted when munitions are stored in Licensed location, Fire/Chemical Hazard symbol decals must be affixed to noncombustible material cut to the same distinct shape as the decal.

6.4.15. Safety toe shoes.

6.4.16. Only trained personnel (On the weapon system in question) will supervise the issue of all blank ammunition. CA trained personnel will supervise the issue all blank ammunition. Personnel with a current Air Force Form 522, *USAF Ground Weapons Training Data*, on the weapon system in question are considered Combat Arms weapons trained personnel.

6.4.17. Blank ammunition will not be fired from any weapon that does not have a blank adapter Installed.

6.4.18. Standard weapon safety procedures will be observed at all times.

6.4.19. After the completion of any exercise scenario using blank ammo, the person in charge, will ensure all weapons are cleared/empty prior to leaving the exercise area.

6.4.20. All cartridge cases and links will be collected and turned-in as munitions residue immediately after the scenario.

6.4.20.1. Residue must be separated by type and caliber and physically segregated from live Ammo.

6.4.20.2. Loading/Unloading of weapons will be performed at approved clearing barrel areas.

6.4.21. Weapons will NEVER be fired from inside buildings.

6.4.22. Blank firing adapters will NEVER be covered or camouflaged in any way and will only be hand tightened.

6.4.23. When in field conditions where no clearing barrel is present, clear all weapons by pointing them in a safe direction i.e., toward the ground, in such a way as to contain (capture) any and all projectiles that may be propelled from the weapon from striking people/buildings.

6.4.24. **Only qualified personnel** are able to prepare and activate simulators and smoke producing munitions.

**WARNING:** Personnel armed with live ammunition for resource protection purposes will not take part in training exercises! All personnel involved will conduct a complete check of ammo pouches, equipment, magazines and ammo before and after each exercise scenario. (Use buddy system)

## **7. Emergency or Abnormal Conditions Actions:**

7.1. Immediately report all accidents or incidents to your supervisor or senior member of your team.

7.2. A live round of ammunition mixed in with blank ammunition is an emergency situation. If found, stop all exercise activities, notify your supervision and the MASO, immediately.

Exercise will not continue until authorized personnel can determine verification of ammunition.

7.3. The Safety Official designated by the Commander or Exercise Supervisor will have a cellular telephone or radio to enable him/her to contact emergency personnel to include the Security Forces Control Center in the event of a mishap or abnormal condition.

7.4. The Safety Official will obtain a list of emergency numbers to contact from the exercise area in the event of a mishap or abnormal condition. Appointed individual will ensure the Security Forces Chief, Security Police Desk Sergeant, MASO, Base Medical Personnel, Fire Department and Weapons Safety offices are notified of any mishaps and complete any necessary paperwork.

7.5. In the event a round fails to fire, take the appropriate immediate action detailed in the Weapon's operator manual.

## **8. Inventory Procedures:**

8.1. A complete inventory of all blank and live ammunition will be conducted prior to the start of the exercise, at the change of shift, at the end of the day, and at the end of the exercise.

8.2. All out of balance conditions shall cause the exercise to be terminated until the out of balance condition is resolved.

8.3. Attachment 1 will be used to document the inventory of all live ammunition. Attachment 2 will be used to document the inventory of all blank ammunition. Forms will be maintained for a period of 90 days from the date of the exercise termination.

## **9. Munitions Residue:** Munitions residue procedures are contained in Lackland Air Force Base Instruction (LAFBI) 21-201, *Munitions Operations Customer Support Instruction*.

9.1. The custody or consumption account custodian will:

9.2.1. Ensure the scrap from all expended munitions items (small arms brass, expended photoflash or starter carts, and such), is collected and controlled.

9.2.2. Periodically contact using shops to arrange for turn-in of scrap or brass.

9.2.3. Contact Munitions Inspection to schedule the inspection and certification of munitions scrap/residue when needed.

9.2.4. Ensure scrap is separated from live munitions and packaged for turn-in. The container the item was issued in is a suitable container for turn-in.

## **10. Expenditures:** To the maximum extent possible, all expended brass generated during the training exercise will be picked up, inspected, placed in containers and returned to the munitions function according to LAFBI 21-201.

10.1. Ensure munitions issued to their organization are not released to unauthorized personnel.

10.2. Ensure an auditable record of all issues, expenditures, and turn-ins of munitions is accurate and up-to-date. Report all expenditures within five working days, unless directed

otherwise, and request assets to replenish their stock in a timely manner (custody accounts only).

10.3. All expenditures must be properly documented using AF Form 2005, *Issue/Turn-In Request*. Block E must contain the certified statement and custodian signature. The individual signing the AF Form 2005 must be authorized on the current AF Form 68, *Munitions Authorization Record*.

## 11. Training:

11.1. A safety briefing will be given prior to commencing any training with munitions or explosives. Brief personnel regarding their responsibilities from a safety and accountability standpoint. The briefing must be recorded and the documentation will be kept for a minimum of 90-days. Records must include the following:

11.1.1. Name of the personnel who received the briefing.

11.1.2. Date the briefing took place.

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

11.1.4. The name of the person who provided the briefing.

11.2. The safety briefing will contain as a minimum the following points.

11.2.1. Ammunition identification, to include pictures of blank and live ammunition.

11.2.2. Blank/training ammunitions will not be fired/discharged any closer to personnel than specified below.

11.2.2.1. 5.56mm blank ammunition, Property Number (P/N): M200 will be fired no closer than 20 feet. P/N M200 rifles. TO 11W3-5-5-41, *OPERATOR S MANUAL OF COMPONENTS LIST -- RIFLE, 5.56-MM, M16A2 W/E*, and 11W3-5-5-51, *OPR MNL -- Machine Gun, 5.56MM M249*

11.2.2.2. 7.62 Blank ammunition, P/N: M80, will be fired no closer than 30 feet. M80 ammunition is used in the M60/M240 machine guns. According to TO 11W2-6-4-11, *Operator's Manual, Machine Gun, 7.62mm, M60*.

11.2.3. Prior to starting or terminating training, conduct a thorough check of all ammo pouches, rucksacks, mobility bags and magazines for live ammunition.

11.2.4. Prior to firing any weapon, all personnel will be thoroughly indoctrinated in the proper handling of the weapon.

11.2.5. All ammunition will be pre-checked to determine if they are the types intended to be fired.

11.2.6. Never allow a round to be chambered unless it will be immediately fired.

## 11.3. Prescribed Forms.

None

## 11.4. Adopted Forms.

AF IMT 847, *Recommendation for Change of Publication*

AF Form 68, *Munitions Authorization Record*,

AF Form 522, *USAF Ground Weapons Training Data*

AF Form 1098, *Special Task Certification and Recurring Training*.

AF Form 1297, *Temporary Issue/Receipt Document*

AF Form 2005, *Issue/Turn-In Request*

JOHN C. FOBIAN., General, USAFR  
433rd Air Wing Commander

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

AFMAN 33-363, *Management of Records*, 1 March 2008

AFMAN 91-201, *Explosive Safety Standards*, 18 October 2001

AFPD 91-2, *Safety Programs*, 28 September 1993

LAFBI 21-201, *Munitions Operations Customer Support Instruction*, 23 November 2007

TO 11W3-5-5-41, *Operators Manual of Components List -- RIFLE, 5.56-MM, M16A2 W/E*, 1 October 1998

TO 11W3-5-5-51, *OPR MNL -- Machine Gun, 5.56MM M249*, 1 June 1991

TO 11W2-6-4-11, *Operator's Manual, Machine Gun*, 2 April 1998

***Abbreviations and Acronyms***

**AF**—Air Force

**AFI**— Air Force Instruction

**AF IMT**—Air Force Information Management Tool

**AFMAN**— Air Force Manual

**AFOSH**—Air Force Occupational and Environmental Safety, Fire Protection and Health

**AFPD**— Air Force Policy Directive

**AFRC**— Air Force Reserve Command

**AW**— Airlift Wing

**BFA**— Blank Firing Adapter

**CA**— Combat Arms

**CFETP**— Career Field Education and Training Plan

**EOD**— Explosive Ordnance Disposal

**ETC**— Exercise Team Chief

**DoD**— Department of Defense

**LAFBI**— Lackland Air Force Base Instruction

**MASO**— Munitions Accountability Systems Officer

**NSN**—National Stock Number

**OPR**—Office of Primary Records

**P/N**— Property Number

**RDS**— Records Disposition Schedule

**SFCC**— Security Forces

**TO**— Technical Order

**USAF**— United States Air Force



**Attachment 3**

**FIELD EXERCISE BLANK AMMUNITION ACCOUNTABILITY LOG**

<i>Total Blank Ammunition Taken for Exercise:</i>	
5.56MM Single: _____	
5.56MM Linked: _____	
7.62MM Linked: _____	
<i>Issued Blank Ammunition:</i>	
5.56MM Single: _____	Rounds To: _____ Individuals (AF Form 1297)
5.56MM Linked: _____	Rounds To: _____ Individuals (AF Form 1297)
7.62MM Linked: _____	Rounds To: _____ Individuals (AF Form 1297)
<i>Shift Change Inventory:</i>	
Day: 5.56MM Single: _____	
5.56MM Linked: _____	
7.62MM Linked: _____	
Swing: 5.56MM Single: _____	
5.56MM Linked: _____	
7.62MM Linked: _____	
Mid: 5.56MM Single: _____	
5.56MM Linked: _____	
7.62MM Linked: _____	
<i>Total Blank Ammunition Returned:</i>	
5.56MM Single: _____	
5.56MM Linked: _____	
7.62MM Linked: _____	
I certify that the above munitions were issued in the exercise and that all blank ammunition has been turned in. I also certify that all magazines/clips were empty of all rounds.	
_____	_____
Name & Rank of Field Munitions Custodian Signature	Date
_____	_____
Name & Rank of Exercise Coordinator Signature	Date

**Attachment 4**  
**SAFETY BRIEFING**

**Emergency Telephone Numbers:**

Fire Department	671-2921
Explosive Ordnance Disposal (EOD)	671-4035
Security Forces (SFCC)	671-2018
37th Command Post	671-4225
433 <sup>rd</sup> Command Post	925-4330

**Note:** FOR ON BASE MEDICAL EMERGENCY, CALL 671-0911.

1. Any personnel using a weapon system must be trained and qualified on that weapon system and be current on their AF Form 522,
2. **Only qualified personnel** are able to prepare and activate and handle Ground Burst Simulators and smoke producing munitions.
3. Blank firing adaptors will be placed on all weapons prior to entering exercise area.
4. Blank firing adaptors will NEVER be covered or camouflaged in any way and will only be hand tightened. Red and yellow are the only authorized colors for blank firing adaptors.
5. All magazines will be marked with a BLUE 3 inch piece of tape/Painted BLUE on the lower 2/3 part of the magazine prior to entering exercise area.
6. Magazines will be loaded by qualified personnel only.
7. In the event a live round is found in the exercise area, the individual finding the round will shout SAFETY, SAFETY, SAFETY to terminate the exercise. This command will be echoed by all personnel. All magazines and ammunition will be collected and checked by the on scene commander or his/her designee. Upon completing the check of all ammunition, the On-scene-commander will make the final determination to continue the exercise or to terminate the exercise.
8. In the event of a mishap, the exercise will be stopped. When mishap has been resolved, the On-scene-commander will make final determination to continue with or terminate the exercise.
9. Follow minimum safe firing distances for all weapons. 20 feet for M16/M-4 and M-249. 30 feet for the 240B.
10. Never fire any weapon inside a building or from a building during an exercise.

**11. Weapons Safety:**

- A. Treat all weapons as if loaded at all times.
- B. Never joke or jest with any weapon.
- C. Do not take any weapon apart while on post.
- D. Do not point any weapon at anything you do not intend to shoot.
- E. Do not Lock and Load weapons until you are told to do so.
- F. Horse play in exercise area or with any weapons will not be tolerated.