

**BY ORDER OF THE COMMANDER  
DAVIS-MONTHAN AIR FORCE BASE**



**AIR FORCE MANUAL 91-201**

**AIR COMBAT COMMAND  
Supplement**

**DAVIS-MONTHAN AIR FORCE BASE  
Supplement**

**22 MAY 2019**

**Safety**

**EXPLOSIVES SAFETY STANDARDS**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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Certified by: 355 WG/SE  
(Lt Col Phillip M. George)

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AFMAN 91-201, *Explosives Safety Standards*, 21 March 2017, and AFMAN 91-201\_ACC SUP\_I, 11 October 2017, is supplemented as follows: It establishes a central source for explosives safety criteria; it identifies hazards and states safety precautions and rules when working with explosives. This base supplement applies to all host and tenant units involved in explosives operations of any kind at Davis-Monthan AFB, referenced throughout as DMAFB.

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). Contact supporting records managers as required. 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 Form 847s from the field through the appropriate functional chain of command.

***SUMMARY OF CHANGES***

This document is substantially revised and must be completely reviewed. Major changes include: Renumbering of paragraphs due to reorganization of AFMAN 91-201 and ACC supplements. Incorporated facility 231 compensatory measures due to a tiered explosive site plan (ESP).

5.58.1.1. **(Added)** Documentation of inspections will be maintained by the unit.

7.2.1.1.1. **(Added)** An electronic copy of the instruction will be supplied to 355th Wing Weapons Safety (SEW) after final approval by the unit commander.

7.3.6.1. **(Added)** Locally written instructions will include identified evacuation assembly points, based on hazards involved, which will determine the withdrawal distances.

7.4.1.1. **(Added)** ADWSRs must maintain current explosive safety training documentation for all personnel assigned to their unit who handle explosives.

7.25.2.3.1. **(Added)** Personnel receiving initial/refresher ground burst simulators (GBS)/Smoke training will be issued an AF Form 483, Certificate of Competency by EOD with expiration/refresher training due date. Each individual unit is responsible for tracking the need for refresher training, and maintains a current roster of authorized personnel.

7.25.3.1. **(Added)** GBS and smokes will be initiated only in areas approved by 355 WG/SEW.

7.25.4.1.9. **(Added)** Initiate GBS inside three stacked tires or other approved means to control fragmentation. Simulators initiated on approved EOD ranges are exempt from this requirement.

7.34.1.1. **(Added)** No new operations will begin once lightning watch has been announced.

8.12.1. **(Added)** The primary and alternate route for explosives transportation will be adhered to at all times. Any deviation from the primary or alternate routes must be coordinated through 355 WG/SEW prior to the change.

8.13.1. **(Added)** For explosives shipments destined for Aerospace Maintenance and Regeneration Group (AMARG), AMARG will:

8.13.1.1. **(Added)** Refer to locally written operating instructions for proper procedures and guidelines for incoming unit specific explosive shipments.

8.13.2. **(Added)** 355 LRS Deployment and Distribution Flight will:

8.13.2.1. **(Added)** Refer to locally written operating instructions for proper procedures and guidelines for incoming unit specific explosive shipments.

8.13.3. **(Added)** 355 EMS will:

8.13.3.1. **(Added)** Refer to locally written operating instructions for proper procedures and guidelines for incoming unit specific explosive shipments.

8.13.4. **(Added)** 355 SFS will:

8.13.4.1. **(Added)** Refer to Installation Integrated Defense and Antiterrorism Plan for proper procedures and guidelines for incoming unit specific explosive shipments.

8.26.3.1. **(Added)** Placard vehicles and/or tow trailers on all four sides with the highest hazard class/division (HC/D) of munitions being transported. Placards are not required when transporting HC/D 1.4 munitions on DMAFB.

10.7.4.1. **(Added)** Units will validate the accuracy of their facility's fire symbols with the ECC on a quarterly basis. Units that have static munition type inventories are exempted from the quarterly validation if they have memorandum coordinated with ECC identifying constant inventory/fire symbol and will notify when symbol changes.

10.7.6.3.1. **(Added)** All licensed facilities on DMAFB will coordinate with the Fire Prevention office to ensure proper posting of fire symbols on building exteriors.

10.8.3.1. **(Added)** All storage locations on DMAFB that contain any amount of explosives, will be placarded, including 1,000 rounds or less of 1.4 assets.

10.8.8. **(Added)** Posting fire symbols on the main ramp combat aircraft parking areas (A-10 CAPA) and (C-130 CAPA) is not required on DMAFB.

11.5.6.1.1. **(Added)** If reduced parking distance is approved based on mission necessity, include the criteria in the remarks section of the AF Form 2047.

11.8.1.1. **(Added)** All approved AF Form 2047s and justification memorandums will be clearly displayed at the licensed location. This justification memorandum must accompany the AF Form 2047 during the approval process. See **Attachment 1** for an example of a justification memorandum.

11.8.3.1. **(Added)** 355 WG/SEW will review each AF Form 2047 in conjunction with the unit's annual safety inspection.

11.11.1. **(Added)** Licenses issued solely for exercise use will include the following in the remarks section of AF Form 2047: ***“NOT FOR LONG-TERM STORAGE OF MUNITIONS. Munitions will be returned to the munitions storage area at the end of each exercise.”*** This type of license is only valid during approved exercise time periods.

12.45.1. **(Added)** Taxiways A1 and A6 are the primary arm/de-arm areas for DMAFB. Taxiway A4 is an alternate arm/de-arm area.

12.47.5. **(Added)** To meet mission requirements, practice bombs, chaff and flare modules, small arms ammunition, and impulse carts required for a single aircraft load may be temporarily placed at the aircraft parking spot (not to exceed 8 hours) in a designated location to await aircraft loading or pick-up. Impulse carts and small arms ammunition must be stored in an approved container prior to placing on the ground. All other aircraft munitions will be directly loaded from and downloaded to the munitions trailer.

12.63.1.3. **(Added)** Every effort will be made to contact the receiving activity through Command Post or maintenance operations center (MOC) using the applicable standby rosters. All vehicles transporting munitions will be parked at the munitions railhead outside of normal duty hours. Unless other arrangements are coordinated, vehicle operators will be responsible for security of munitions.

14.4.2.1. **(Added)** Coordinate through safety office during the design stage of all building projects, including new construction or alteration of existing facilities and infrastructure, for proper and accurate explosive site planning. This coordination will include a detailed purpose of the construction and a map of the proposed location. New construction within existing explosives arcs or construction of explosives storage/operating facilities shall not begin until an approved explosives site plan from the Department of Defense Explosives Safety Board (DDESB) or a waiver from the Secretary of the Air Force is received.

14.20.4. **(Added) Facility 231 Tiered ESP Operations.**

14.20.4.1. **(Added)** ESP ACC-DAVIS-MONTHAN-14-S2 generates seven explosives safety quantity-distance violations in six earth covered magazines (ECMs). In order to mitigate these violations, the compensatory measure of physically reducing the net explosives weight (NEW) in these structures is required. Relocation of stored NEW will be coordinated with Munitions Control and conducted by Stockpile Surveillance elements. NEW limits for the tiered ESPs are defined in **Table 14.1**.

14.20.5. **(Added)** A further compensatory measure of administratively reducing the NEWs of these structures is required. Munitions Control is responsible for administratively reducing NEWs in the combat ammunition system (CAS) while ESP ACC-DAVIS-MONTHAN-14-S2, is in effect. The following are the required reduced criteria:

14.20.5.1. **(Added)** ECM 152 reduced from 127,500 to 84,460 lbs. of HD 1.1

14.20.5.2. **(Added)** ECM 153 reduced from 180,750 to 86,644 lbs. of HD 1.1

14.20.5.3. **(Added)** ECM 154 reduced from 203,250 to 70,139 lbs. of HD 1.1

14.20.5.4. **(Added)** ECM 155 reduced from 189,000 to 49,971 lbs. of HD 1.1

14.20.5.5. **(Added)** ECM 155 reduced LSRN from  $\leq 450$  to  $\leq 432$  of HD 1.2.3

14.20.5.6. **(Added)** ECM 157 reduced from 232,500 to 68,142 lbs. of HD 1.1

14.20.5.7. **(Added)** ECM 181 reduced from 253,750 to 99,459 lbs. of HD 1.1

14.20.6. **(Added)** These reduced NEWs will not be administratively returned to sited AGM limits, until coordinated through 355 WG/SEW via signed memorandum, which will serve to re-enact ESP ACC-DAVIS-MONTHAN-14-S1.

**Table 14.1. NEWs for Tiered ESPs.**

Facility	HD 1.1	HD 1.2.1	HD 1.2.2	HD 1.2.3	HD 1.3	HD 1.4
231 (Op Location)	2,500	887 <100	5,000	(06) 5,000 $\leq 106$	5,000	MEQ
231 (AGM)	2,520	887 <100	204,748	(06) 500,000 $\leq 106$	169,516	MEQ

MICHAEL R. DROWLEY, Colonel, USAF  
Commander

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

AFMAN91-201, *Explosive Safety Standards*, 12 Jan 2011

AFMAN91-201 ACCSUP\_I, *Explosive Safety Standards*, 3 January 2013

AFMAN 24-204\_IP, *Preparing Hazardous Materials for Military Air Shipments*, 3 December 2012

AFI32-1065, *Grounding Systems*, 12 January 2015

AFI91-202, *US Air Force Mishap Prevention Program*, 24 June 2015

AFI91-202 ACCSUP, *US Air Force Mishap Prevention Program*, 9 October 2012

Title 49, Code of Federal Regulations, *Transportation*, 1 October 2010

DoD 6055.9 STD, *DoD Ammunition and Explosives Safety Standards*, 29 February 2008

DoD 4500.9 R, *Defense Transportation Regulation*, 1 March 2003

***Adopted Forms***

AF Form 847, *Recommendation for Change of Publication*

AF Form 2047, *Explosives Facility License*

***Abbreviations and Acronyms***

**AMARG**—Aerospace Maintenance and Regeneration Group

**BDU**—Bomb Dummy Unit

**CAS**—Combat Ammunition System

**DMAFB**—Davis-Monthan Air Force Base

**GBS**—Ground Burst Simulator

**HC/D**—Hazard Class/Division

**LRS**—Logistics Readiness Squadron

**MOC**—Maintenance Operations Center

**OPR**—Office of Primary Responsibility

**SPI**—Special Packaging Instruction

## Attachment 2 (Added)

## EXAMPLE JUSTIFICATION LETTER FOR LICENSED FACILITIES

Figure A2.1. Example Justification Letter for Licensed Facilities.

**\*\*Note\*\* Use Applicable Unit Letterhead**

MEMORANDUM FOR 355 WG/SEW

FROM: (Unit)/CC

SUBJECT: (Unit) Explosive License Justification

1. This letter outlines mission essential quantities of munitions required to support the (Unit) mission and serves to justify the requirement of an explosive facility license IAW AFMAN 91-201 ACCSUP Para. 11.7.7.2.

**NOTE:** State mission requirements in specific detail that drive why the unit is required to store munitions within the facility. Any other data that may serve as justification (directly or indirectly, major or minor) for the existence of the explosive storage facility may aid your unit in meeting this justification. List all items listed on the AF Form 2047 below. List all applicable Technical Order, Air Force Instruction, and AFCAT 21-209 references.

EXAMPLE (Paragraph 2):

2. Explosive licensed quantities are based on base defense, exercises, evaluations, competitions and requirements outlined in AFCAT 21-209, Wing Installation Security Plan and AFI 31-101. The quantity listed on the license allows the 355th Security Forces Squadron to meet minimum mission requirements. Specific munitions requirements are as follows:

a. Explosive CTG, 5.56MM, M193, 1305-00-926-3930, 8,000 each is required to conduct exercises and evaluations. Squad exercises with 15 or more participant's use up to 500 rounds per exercise period. The extra 500 will allow training variations. Items support Security Forces training/exercises, they are only allowed in the armory for the duration of the exercise, 5 duty days prior and after.

b. Kit, UWARS, 1377-01-394-5663, 10 each are required for maintenance replacement on survival kits, 4 per week. The workload drives up to 4 kits per week. This quantity is sufficient to sustain workflow for maintenance replacement requirements until more items can be re-supplied. REF: T.O. 14S1-11-3 and T.O. 11P12-15-7.

c. Grenade, Hand, Smoke Red, GREEN, 1330-00-289-6852, 20 each are required to support simulated attack scenarios during Operational Readiness Exercise and Emergency Management Exercise operations only. Munitions will be picked up from the Munitions Storage Area immediately prior to the beginning of the exercise. Serviceable munitions and expenditures will be turned-in to MSA for permanent storage immediately upon ENDEX of exercise.

d. Cartridge, Impulse, ARD-863, 1377-01-369-2492, 900 each are required for arming weapons bomb racks for loaded stores in support of three A-10C flying squadrons. 858 impulse cartridges are required for arming 11 weapons stations on 78 aircraft. 42 impulse cartridges are required to replace unserviceable or expended impulse cartridges as needed.

3. If you have any questions or comments, please contact (Unit Representative) at 228-XXXX.

UNIT CC (NAME), RANK, USAF  
Commander