



**EXPLOSIVES SAFETY STANDARDS**

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OPR: HQ AMC/SEW (TSgt John A. Foreman)  
Supersedes AFM 91-201 AMCS1, 15 April 2001

Certified by: HQ AMC/SED (Mr. Lee Vetter)  
Pages: 7  
Distribution: F

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**SUMMARY OF REVISIONS**

**This interim change (IC) 02-01 verifies that the new AFI 91-201, *Explosive Safety Standards*, 18 October 2001 does not affect the content of the existing supplement.** This IC changes the purpose statement to reflect the date of the new basic. Identifies the OPR of this supplement. The date of the supplement has changed and **Attachment 12 (Added)** has been added. **A bar ( | ) indicates a revision from the previous edition.**

1.2.4. Base line site plans are no longer an option. All site plans must be approved by DDESB unless approval is authorized under stipulation in paragraph 4.8.

1.3.3. See paragraph 2.31.4.

1.4.3. Host support units will work directly with their counterparts in the deploying unit. Host support units are responsible for providing deploying units with procedural information concerning operations at their base or Geographically Separated Units (GSU). Units hosting a deployment will request additional weapons safety support through the NAF and AMC/SEW, when necessary.

2.3. **Locally Written Instructions.** Locally written instructions, regulations, and plans relating to munitions or weapons systems must be reviewed annually by the installation weapons safety office.

2.4. **Contents of Locally Written Instructions.** All items listed are applicable.

2.4.4. Include any requirement to remove rings, watches, & jewelry in accordance with AFOSH Standard 91-66, *General Industrial Operations* and AFOSH Standard 91-100, *Aircraft Flight Line – Ground Operations and Activities*.

2.5.2. Posting Operating Limits. These limits may be written in the crew book if posting is impractical. The crew chief of the operation must have these limits written down in the crew book and be aware of maximum NEW limits. Crew chief must ensure all crewmembers are aware of the munitions items within the operating location.

2.9.1. (Added) . Air Force personnel, on or off-duty, must not take part in the transportation, storage, setup or functioning of *commercial* explosives of any type used by contractors for base demonstrations. Exception: EOD may be excluded from this requirement when approval is given by HQ AMC/CEXE in coordination with HQ AMC/SEW, for evaluation of commercial explosives which are being considered for government use/acquisition.

2.11. **Smoking.** Use English/Host Nation bilingual signs where appropriate.

2.13. **Hunting.** The use of firearms for hunting and BASH operations at less than Public Traffic Route (PTR) distance is not permitted. All other forms of hunting/fishing/recreation at less than PTR will require an exemption/waiver. All hunting/fishing/recreation within a Munitions Storage Area must be coordinated with the installation weapons safety office and installation security forces.

2.14. **Training Ammunition.** Security forces must comply with AFMAN 31-229, *USAF Weapons Handling Manual*.

2.16. **Training and Exercise Plans Involving Explosives.** The Installation Exercise Evaluation Team (EET) Chief can satisfy this requirement by developing a single letter or local operating instruction that details all exercises under their control, including those in conjunction with HQ AMC/IG. For exercises that involve an entire installation, a detailed list of locations where munitions will be deployed would be too extensive to document. During these exercises, include in the list the minimum separation distances stated in paragraph 2.15.3. of the basic manual and other deployment limitations imposed. This identifies where munitions cannot be employed and will meet the intent of this manual. Once signed by the installation commander, a copy must be maintained by the Exercise Team Chief and the installation weapons safety office.

2.17. **Military Working Dogs Explosives.** Additional requirements of AFJI 31-102, *Physical Security* will be followed. Q-D requirements for specific items are found in Table 3.26.

2.19. **Fire Drills.** Munitions Control will maintain records of these drills. Where no munitions control exists, the senior munitions person is responsible for maintaining records.

2.21.7.2. The requirements of AFOSH Standard 91-100 will be met when operating support equipment for aircraft operations.

2.22.1. Perform and document fire extinguisher inspections in accordance with AFOSH Standard 91-56, *Fire Protection & Prevention*.

**Table 2.3. Chemical Symbol Hazards and Actions.**

**Note 4.** When an item requires both, Set 1, 2, or 3 and Wear Breathing Apparatus symbols, posting the appropriate chemical hazard symbol (Set 1-3) eliminates the requirement for Wear Breathing Apparatus symbol.

2.26.2. MAJCOM authority is HQ AMC/LGMW. Info HQ AMC/SEW with message traffic.

2.26.4. Security Forces personnel may carry in-use ammunition into public assembly areas when required to meet essential mission needs. They may be brought into dining facilities provided rifles and grenade launchers are placed into a rack with ammunition removed, and guarded by a Security Forces member at all times. Hazard/Class Division 1.1 is not authorized.

2.28.4. MAJCOM authority is HQ AMC/LGMW. Info HQ AMC/SEW with message traffic.

2.31.2. Activities other than MSAs, such as licensed locations, must turn in unserviceable/expended items to the base munitions activity within seven duty days. If the seven duty day turn-in period is exceeded, the using organization must maintain documentation as to why it could not be met (i.e. exercises, munitions inventory, etc.). Documentation will be maintained until items are turned-in. Wing Weapons Safety Offices will coordinate on documentation.

2.31.5. (Added) . Amnesty Boxes. Units responsible for the inspection of amnesty boxes will develop written instructions governing procedures for inspecting and handling munitions found in amnesty boxes. Boxes must be placed at least 50 feet from combustible/hazardous materials and public traffic routes/gathering places. If explosive contents are suspect in nature or identified as an improvised explosive device, the Command Post will be notified immediately for emergency actions.

**2.35. Licensed Explosive Locations.** See paragraph 2.54.2.4. for lightning protection requirements.

2.35.1. Licenses issued solely for exercise-use munitions, such as GBSs and smoke grenades, must state in the remarks section of the AF Form 2047, and applicable local written instruction, "FOR DURATION OF EXERCISE ONLY, Munitions will be returned to the munitions storage area at the end of each exercise". Licenses need not be rescinded at the end of each exercise.

2.37.6. Training will be provided/documented annually by EOD or other qualified source determined by local weapons safety office.

**Table 2.4. Storage Compatibility Mixing Chart.**

**Note 2.** Forward the munitions storage area commander's approval to HQ AMC/LGMW for review. Info copy to HQ AMC/SEW.

2.48.1. Communication lines include cable TV lines.

2.53.2.1. Quarterly visual inspection requirements of the basic manual also apply to grounding reels. Continuity/resistance tests will be accomplished when installed and at intervals not to exceed 24 months. Test results will be documented in facility records.

2.54. **Lighting Protection.** A general rule of thumb is, if it doesn't require Q-D, then it doesn't require LPS. AMC/SEW will provide guidance in questionable situations.

2.59. **Guidance.** Security forces vehicles transporting armed personnel and their basic load munitions on-post, and to-and-from post do not require DOT placards. In addition to the basic load ammunition car-

ried on their person (in pouches, etc.) security forces personnel may have basic load munitions in the vehicle cab or bed provided they are in closed immobilized metal containers.

2.64.3. EOD is authorized to transport in a single military vehicle, minimum quantities of explosives necessary for demolition operations and proficiency training. All demolition explosives and munitions will be serviceable. Blasting caps and explosives/demolition materials will be separated to the maximum extent possible at all times.

2.64.4. EOD is the only qualified personnel to determine safe for transport.

2.68. **Explosive Movement Routes on Base.** The installation weapons safety office will approve explosive movement routes. Movement of Military Working Dog explosives training aids need not conform to primary and alternate explosive routes however, deviations from explosive routes will be addressed in locally written operating instructions.

2.68.1. (Added) . Transportation of EOD explosives used for local exercises are not restricted to designated routes. Explosive placarding of the vehicle is required. EOD personnel must avoid populated areas as much as possible in accordance with paragraph 2.59.

2.77. **Movement of Explosives Shipments by Air.** The last sentence should give guidance to see paragraph 3.4.2.3.

3.2.3.9. (Added) . No specific minimum separation is required to bus stops on DoD installation roads that only service munitions related personnel.

3.10.8. Q-D is not applied to runway overruns.

3.11.2.4. The maximum credible event (MCE) will not exceed 500,000 lbs. NEW.

### Table 3.3. Quantity Distance Criteria.

**NOTE 12.** Wing Weapons Safety Offices will identify what actions constitute servicing in their supplement to this manual or other local operating instruction.

**NOTE 43.** Use K30 for aircraft parked in these types of areas. Use the appropriate Public Traffic Route (PTR) separation for HC/D 1.2; Table 3.13, IB or PTR column for HC/D 1.3; and 50-foot minimum for HC/D 1.4. Non-explosives loaded combat aircraft will be separated using CAPA criteria when K30 protection cannot be afforded, wing commander's approval and acceptance of the risk is required.

**NOTE 66.** Runway arresting systems and weather instruments do not require QD separation.

3.18. **Warehouses.** Inert storage facilities, such as small sheds, that support specific buildings in the clear zone must be a minimum of 50 ft from any PES.

**Table 3.16. Intershelter Separation Criteria for Aircraft Survival1 (HC/D 1.1 only).**

**NOTE 2.** Wing Weapons Safety Offices will identify what actions constitute servicing in their supplement to this manual or other local operating instruction.

**Table 3.17. Intershelter Separation Criteria To Prevent Simultaneous Detonation 6,7 (HC/D 1.1 only).**

**NOTE 8.** Wing Weapons Safety Offices will identify what actions constitute servicing in their supplement to this manual or other local operating instruction.

3.29.5.3. (Added) . Keep aboveground pipelines that serve pump/pump houses at NFPA standard.

3.29.6.1. Fixed POL pantograph systems attached to hydrants do not require Q/D separation. These systems have “dead-man controls” and other features that prevent fuel discharge in a mishap event.

3.36.3. Contact HQ AMC/SEW for approved buffered storage drawings.

4.3. **The Submission Process.** It is the wing’s responsibility to ensure all requirements in the final approval document from DDESB and AFSC are implemented.

4.3.3. Units will submit the original and two copies of the site plan package to the MAJCOM. Units will also submit an electronic copy of the AF FORM 943, Explosives Safety Site Plan/Waiver/Exemption.

4.7.1. Modifications that observe the rules identified in 4.7.1 thru 4.7.1.5. are approved by AMC/LGMW. Info copy to AMC/SEW.

4.7.2. Contact AMC/SEW for assistance.

4.8.1.3. An ORM analysis will be accomplished for each area identified, to include the specifics of the training and a detailed list of the explosives items to be used. The Wing/CC will approve this analysis. The installation Weapons Safety office will forward one copy to NAF for review. The NAF will forward an endorsed copy to AMC/SEW. Units will maintain the NAF endorsed copy locally.

4.11.3.6. Reconciliation with the Installation Community Planner meets this requirement.

4.11.3.8.6. Wing/SE/BCE and NAF/SE must coordinate on all requests for expeditious processing.

4.11.4. When accuracy of maps are in question, use tape measure or other accurate means and state its use in the cover letter. Units must provide photos with site plan packages, digital photos are recommended.

4.15. **Establishing and Maintaining IBD Clear Zones.** Weapons safety will annually review the Base Comprehensive Plan to ensure proposed construction is identified on all affected TABS. Documentation of the review will be maintained by the WSM. Send yearly updates of TAB D-8 to AMC/SEW.

4.16. **Reduction or Re-designation of Clear Zones.** No action to reduce or re-designate clear zones will be taken until AMC/LGMW/SEW provides approval.

4.44. **Automatic Sprinkler Systems.** These type facilities may have “Apply No Water” munitions present. The benefits of automatic sprinkler systems preventing fire from reaching these type munitions exceed the risk of these munitions becoming engulfed in flames.

5.2.3.1. Document violated PES/ESs on AF Form 943. Electronic mail may be used in lieu of fax.

5.2.5. A timeline will be submitted for all deviations outlining the measures being taken to correct the deficiency. Deviations for day-to-day and war plan operations are normally approved by AMC/CV. Depending on the circumstances, AMC/SE may be the appropriate approval authority.

5.4.1. The following documentation, is required: a cover letter explaining what actions were accomplished, an Exception Decision Nomograph; and a copy of the original AF Form 943 with changes. Maps and any additional information that will explain the review process. If all exemptions are deleted from the site plan, then a new site plan will be required for DDESB approval.

A3.8. **Remarks.** Licenses issued solely for exercise-use munitions, such as GBSs and smoke grenades, must state in the remarks section of the AF Form 2047 and in the applicable OI, "FOR DURATION OF EXERCISE ONLY, Munitions will be returned to the munitions storage area at the end of each exercise". Licenses need not be rescinded at the end of each exercise.

A4.4.1. Columns 5 through 8. When documenting on and off-base exposures apply the risk based nomograph to determine the approval level of the violation, except when new construction is involved, then SAF approval is required.

A4.5.2. Item 2. If compensatory measures are used to mitigate or eliminate violations, identify or attach locally approved written guidance. Installation commander must sign/approve compensatory measures. (4.11.3.4.)

**Attachment 12 (Added)****IC 02-01 TO AFMAN 91-201, AMCS1, EXPLOSIVES SAFETY STANDARDS,  
18 OCTOBER 2001.****27 September 2002**

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