

**BY ORDER OF THE CHIEF NATIONAL
GUARD BUREAU**

AIR FORCE MANUAL 91-201



AIR NATIONAL GUARD SUPPLEMENT

27 JULY 2011

Safety

EXPLOSIVES SAFETY STANDARDS

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RELEASABILITY: There are no releasability restrictions on this publication.

OPR: NGB/SEW

NGB/SE
(Col John D. Slocum)

Supersedes: AFMAN91-201_ANGSUP, 8 April 2002

Pages: 16

This supplement implements and extends the guidance from *Air Force Manual (AFMAN) 91-201, Explosives Safety Standards*, 12 Jan 2011. This supplement covers procedures and standards to promote the safe storage, handling, and transportation of US-titled Ammunitions and Explosives (AE) and is to be used in conjunction with the basic manual. ANG wing organizations must send implementing or supplementing publications to the higher headquarters functional OPR for review and coordination before publishing. Maintain records created as a result of this publication in accordance with (IAW) AFMAN 33-363, *Management of Records*, and dispose of them IAW the Air Force Records Disposition Schedule (RDS) located on the Air Force Portal. Refer comments and recommended changes to this publications to the Office of Primary Responsibility (OPR) at NGB/SEW, 3500 Fetchet Avenue, Joint Base Andrews, MD 20762-5157, on Air Force (AF) Information Management Tool (IMT) 847, *Recommendation for Change of Publication*.

SUMMARY OF CHANGES

This document has been substantially revised and must be completely reviewed. This publication is revised to realign paragraphs with the basic manual and implementation of revised NGB specific requirements in accordance with AFMAN 91-201 and Air National Guard guidance. Major changes include the requirement for annual review of waivers, exemptions, deviations, and compensatory measures; procedures for approval and cancellation of exceptions; Storage and transportation of AE without DoD Hazard Classification; Glass Breakage Risk Assessment procedures, Explosives operations during airshow demonstrations, Explosives Site Planning automation and submittal, and Explosives Site Planning review checklist.

Chapter 1

INTRODUCTION AND EXCEPTION PROGRAM

1.1. Purpose. The purpose of this supplement is to implement, according to *AFPD 91-2, the Air Force Weapons Safety program* and *AFMAN 91-201, Explosives Safety Standards*.

1.1.6. (Added) Explosives safety is survivability of our personnel and resources from effects of accidental or hostile detonation, ignition, or release of explosives, flammable, or toxic materials. This supplement provides guidance for explosives storage, transportation, operations and handling specific to Air National Guard (ANG) personnel and procedures. The absence of safeguards in this supplement or in referenced publications does not indicate that other safeguards do not exist. Commanders are responsible for providing maximum possible protection to personnel and property, on and off installation, from hazards associated with potential accidental effects of explosives, chemicals, and radiological, flammable, toxic, or energetic materials.

1.2.1. **Scope.** The National Guard Bureau (NGB) is considered a MAJCOM for purposes of this supplement. This supplement constitutes NGB policy consistent with operational requirements. This supplement applies to all ANG personnel and units associated with US titled Ammunition and Explosives (AE) functions. It also applies to tenant organizations and personnel performing AE functions at ANG operated, leased, or owned locations. When ANG units are located on Joint Service or Total Force Integration (TFI) Air Force (AF) installations, the most restrictive guidance (e.g. Joint, AF, other MAJCOM, or ANG) will be utilized for ANG operations and personnel. ANG units are authorized to publish supplements to *AFMAN 91-201 Explosives Safety Standards* and/or the ANG Supplement establishing unit unique procedures and requirements. Local supplements will not be less restrictive than directives outlined in AFMAN 91-201 or the ANG Supplement. Request NGB/SEW assistance for unique Joint Service or TFI requirements. Submit local supplements for coordination review to NGB/SEW prior to local commander approval.

1.2.1.3. The Weapons Safety Manager (WSM) must make every attempt to attend concept, design, pre-construction, and Facility Utilization Board (FUB) meetings to identify applicable explosive safety rules to the contractors' representatives, establish oversight requirements, and ensure risk associated with construction activities exposed by explosives facilities or operations are properly documented and controlled IAW paragraph 12.17.11 of the basic manual.

1.2.2.2. Forward the five year grandfathering clause review documentation to the NGB/SEW Staff organizational e-mail box at NGB.SEW.Staff@ang.af.mil.

1.2.4. Any Explosives Site Plan (ESP) not containing Department of Defense Explosives Safety Board (DDESB) approval and not meeting current mission requirements is invalid and must be resubmitted. Any explosives site that has not been resited from HD (xx)1.2 criteria to 1.2.X is invalid as of 1 Jan 2004 for all 1.2.X storage/handling operations until the updated ESP has been approved through command channels IAW chapter 14 of the basic manual and the ANG supplement.

1.3.6. Requires DDESB Technical Paper-15 (TP-15) documentation or an approved engineering analysis. Contact NGB/SEW for further guidance.

1.3.7. All ESPs with exceptions and/or a compensatory measures will be cataloged using the ANG Exceptions spreadsheet template (Attachment 2). Deviations approved outside of the ESP process will be maintained along with other exceptions and compensatory actions.

1.3.8. See figures 1.1 and 1.2 for exception approval authority.

1.4.1.3. All ESP deviations will be identified utilizing the ESP number and "D" (deviation), along with the successive occurrence number (e.g. NGB-Toledo-10-S2-180FW-D3). Successive deviation numbers will be used in sequential order for the duration of each calendar year. Begin new tracking numbers at the beginning of each year. Track all deviations IAW paragraph 1.3.7 of this supplement and review deviations IAW paragraph 1.4.4. of the basic manual.

1.4.2. For ANG host units the Wing commander is approval level for deviations associated with day-to-day operations and contingency or war plans. For tenant units, coordinate responsible commander approval through the host organization. Document ANG deviations IAW paragraph 1.4.3 and forward approved copy of deviations through command channels to the NGB/SEW Staff organizational e-mail box at NGB.SEW.Staff@ang.af.mil.

1.6.5. (Added) All ANG ESP waivers will be identified by utilizing the ESP number in conjunction with the unique exception identification tracking number listed in paragraph 14.22.6.1. of the basic manual (e.g. NGB-Toledo-10-S2-180FW-W3). Successive exception numbers will be used in sequential order for the duration of each calendar year. Begin new tracking numbers at the beginning of each year. Track all waivers IAW paragraph 1.3.7 of this supplement and review waivers IAW paragraph 1.6.4. of the basic manual.

1.7.5. (Added) All ANG ESP exemptions will be identified utilizing the ESP number in conjunction with the unique exception identification tracking number listed in paragraph 14.22.6.1. of the basic manual (e.g. NGB-Toledo-10-S2-NGB-E3). Successive exemption numbers will be used in sequential order for the duration of each calendar year. Begin new tracking numbers at the beginning of each year. Track all exemptions IAW paragraph 1.3.7 of this supplement and review exemptions IAW paragraph 1.7.4. of the basic manual.

1.12.1.3. This paragraph is applicable to ANG Air Sovereignty Alert missions for Noble Eagle Homeland Defense Operations, as well as short notice contingency operations.

1.12.2. NGB/CF is the exception approval authority for risks determinations less than SAF/IE, but greater than Wing/CC. NGB/CF delegates lower level "NAF*" exception approval to the Wing/CC level for day-to-day and contingency war plan operations. For risks greater than

“NAF*” level, TAG (The Adjutant General) documented coordination is required prior to NGB/CF submittal (see nomographs Figure 1.1. and 1.2.). For tenant units, coordinate exceptions through the host organization.

1.13.2. Wing WSMs will annually forward a listing of all existing exceptions and compensatory measures to NGB/SEW no later than 1 April each calendar year.

1.13.4.2. The wing commander is the approval authority for ANG deviation reviews. The wing WSM is responsible for performing and documenting the three year deviation review, and upon completion, will forward the approved review to NGB/SEW.

1.14. Submit request in memorandum format signed by the Chief of Safety to cancel waivers and exemptions. Explain the original departure from standards and the action taken to eliminate the waiver or exemption. The wing safety office is responsible for informing the responsible commander that the risk has been eliminated.

1.14.1. (Added) Cancellation of deviations and compensatory measures will utilize procedures outlined in paragraph 1.14.

1.15. (Added) All ESP compensatory measures will be identified utilizing the ESP number and “C” (compensatory), along with the successive occurrence number (e.g. NGB-Toledo-10-S2-180FW-C3). Successive compensatory measure numbers will be used in sequential order for the duration of each calendar year. Begin new tracking numbers at the beginning of each year. Track all compensatory measures IAW paragraph 1.3.7 of this supplement and review compensatory measures IAW paragraph 1.13. of the basic manual.

Chapter 3

HAZARD CLASSIFICATION

3.7.2. T.O. 11A-1-46, *Fire Fighting Guidance, Transportation and Storage Management Data* has been rescinded and is no longer valid. Hazard classification data may be obtained through the Joint Hazard Classification System (JHCS) at the internet Defense Ammunition Center at <https://www3.dac.army.mil/>.

3.10.9. (Added) Disposition of DOD Non-Stock-listed Munitions, Commercial off the Shelf (COTS), Non-Stock-listed Military Munitions, and Non-Stock-listed, Non-Military Munitions must follow procedures outlined in *AFI 21-201, Conventional Munitions Maintenance Management*.

3.11.1. Provide locally approved hazard classification establishment and documentation procedures to NGB/SEW prior to acquisition, procurement, and storage of non DoD, DoT, or DoE explosives samples, substances, subassemblies, and items.

3.12.1. Forward a listing of all munitions to NGB/SEW for review. The listing of munitions shall include Nomenclature, Quantity, Hazard/Division, Compatibility Group, Net Explosive Weight Quantity Distance (NEWQD), and United Nations shipping number/name. A coordinated package will be forwarded to AFSC/SEW for approval.

Chapter 4

RISK ASSESSMENTS AND PROTECTION PRINCIPLES

4.6. NGB/SEW is the ANG representative to the USAF Non Nuclear Munitions Safety Board. Any issues requiring the Board's attention will be staffed through NGB/SEW.

4.11.3. (Added) A glass breakage assessment is required for all occupied facilities within the Inhabited Building Distance (IBD) arc containing glass panels and/or doors. This assessment must analyze the worst case event exposure to external glass panels from blast hazards. For example, a facility exposed to multiple earth-covered magazines or explosives loaded aircraft would necessitate an analysis from the PES exposing the maximum hazardous pounds per square inch (PSI) on the glass panel contributing to destruction. The glass breakage assessment can be accomplished using a program such as WINGARD PE, WINDAS, Blast Top or HAZL. If the results of the assessment prove that the glass panels will break, a risk assessment in memorandum format with the commander's acceptance is required with the site plan submittal. If the glass panels withstand the blast, then submit the assessment results with the site plan.

4.20. EOD support may be obtained through agreements with regional EOD or other service (Army, Navy, etc.) EOD expertise. These agreements require MAJCOM functional coordination IAW para 4.20 of the basic manual.

Chapter 5

GENERAL EXPLOSIVES FACILITY DESIGN, CONSTRUCTION AND MAINTENANCE, AND EQUIPMENT DESIGN, MAINTENANCE AND INSPECTION

5.1.2. Contact NGB/SEW for assistance with extraordinarily hazardous AE manufacturing facility design criteria.

5.2.1. Determine the operational necessity for glass panels at occupied facilities within the clear zone. Include a justification statement in the site plan submittal or modification package.

5.21.3. Munitions storage element personnel will maintain copies of Equipment Grounds test records pertaining to their facilities, IAW the record keeping and review section of *AFI 32-1065, Grounding Systems and AFI 21-201, Conventional Munitions Maintenance Management*.

5.24.3. Munitions storage element personnel will maintain copies of Lightning Protection System test records pertaining to their facilities, IAW the record keeping and review section of *AFI 32-1065, Grounding Systems and AFI 21-201, Conventional Munitions Maintenance Management*.

5.45.1. DDESB approved ANG Earth Covered Maintenance and Inspection (ECM&I) facilities with Earth Covered Magazine (ECM) doors that also lack personnel doors must generate a deviation for deficient emergency exits for explosives buildings. Utilize grandfathering requirements of paragraph 1.2.2. and identify, track, and review a deviation IAW paragraph 1.4.1.3. modification or resiting must comply with current safety criteria.

5.58.1. Munitions storage element personnel will ensure ECM earth covering depth meets minimum requirements IAW *AFI 21-201, Conventional Munitions Maintenance Management*. Determination of increased frequency of earth covered checks will be approved through NGB/A7 and NGB/A4.

Chapter 6

PROTECTIVE CONSTRUCTION AND SPECIFIC EXPLOSIVES FACILITY DESIGNS

6.13.5.1. (Added) Prior to mixed storage, send a coordinated request through NGB/SEW and NGB/A4M. If a valid site plan exists and NGB/A4M and NGB/SEW concurs then mixed storage is authorized.

6.22. (Added) Based on environmental conditions, unit Civil Engineering (CE) will determine the frequency of inspecting barricades, not to exceed established annual requirements.

Chapter 7

EXPLOSIVES OPERATIONS AND STORAGE

7.3.7. (Added) If Electro-Explosive Devices (EED) are stored or handled, to include within licensed locations, ensure personnel handling and grounding requirements are met and included in the Operating Instruction (OI).

7.4.1. (Added) ANG units managing explosives storage locations (including licensed locations) will conduct safety briefings to visitors who are exposed to the hazards of explosives within the workcenter. Safety briefings should cover hazards in the immediate area, evacuation distances, cell phone and radio communication restrictions, and other pertinent data unique to the location and situation.

7.9.1. Ensure weapons safety training requirements of *AFI 91-202, The US Air Force Mishap Prevention Program*, are met.

7.9.4. Pneumatic nail guns may be used at operating locations or inside International Standardization for Organization (ISO) containers for the purpose of blocking and bracing type operations.

7.19.2. MAJCOM POC is NGB/SEW

7.19.4. MAJCOM POC is NGB/SEW

7.20. Munitions HD 1.3 and higher are not normally carried into public places (Morale and Welfare, Dining, Exchange facilities, etc.) for non-operational needs. If a local decision is made to pursue the possibility of allowing HD 1.2.X or 1.3 to be carried into public places, the using organization along with the wing safety office will develop an ORM assessment (reference *AFPAM 90-902, Risk Management (RM) Guidelines and Tools*) and risk mitigation procedures to compensate for hazards of this practice. The installation commander is the approval authority.

7.21.4.2.1. (Added) Aircraft canopies and cockpits will remain closed to visiting personnel unless an individual trained and qualified on the egress system or aircrew flight equipment explosive components is present at all times. Visiting personnel will not have access to the cockpit. Captive missiles will have umbilicals with shorting caps installed and/or buffer connectors disconnected. See *AFI 11-209, Air Force Participation in Aerial Events*, for additional requirements.

7.22.1. ANG personnel (on duty) must not take part in the transportation, storage, setup, or functioning of commercial fireworks for on-installation fireworks or pyrotechnic displays.

7.22.6.2. ANG personnel will not deliver ANG/AF resources to the detonation site.

7.22.7. Forward risk assessments to NGB/SEW for coordination and approval 30 days prior to the demonstration.

7.24.3. Contact NGB/SEW for guidance.

7.26.2.2. Qualified Explosives Ordnance Disposal (EOD) personnel will provide initial certification and annual recurring training to local EOD, safety, and/or munitions personnel authorized to provide local simulator and smoke producing devices training. All training (instructor and user) must include passing a written test and be documented (e.g. AF Form 483) to indicate competency.

7.26.2.5. (Added) Simulators and smoke producing munitions will not be transported in Privately Owned Vehicles (POV), pockets, or unmarked containers.

7.27.1. Exercise team chiefs will develop and ensure their approved lesson plans/procedures are followed when handling pyrotechnic simulators. Local exercise plans will be reviewed with regard to restricted locations for actuation of simulators and smoke producing devices.

7.32.13. Send requests and risk assessments through command channels to NGB/SEW.

7.35.3. Approval for outdoor storage will be coordinated through NGB/SEW and approved by NGB/A4M. Ensure security and surveillance requirements of DoD 5100.76M are met for all outdoor storage of explosives. Request for outdoor storage must be properly coordinated at wing level and include:

7.35.3.1. Quantity and type of munitions.

7.35.3.2. Packaging configuration.

7.35.3.3. An approved ESP.

7.35.3.4. Required duration of outdoor storage.

7.35.3.5. Corrective actions or programs initiated to provide proper indoor storage.

7.36.1. (Added) Storage in an operating building is permitted under the following circumstances/ conditions.

7.36.1.1. The munitions storage area flight chief/commander deems overnight storage in operating locations necessary to meet mission requirements and prevent unnecessary delays caused by repeated warehousing of material.

7.36.1.2. Overnight storage will be limited to one shift working quantity.

7.36.1.3. Approved explosives limits will not be exceeded.

7.36.1.4. Security and surveillance requirements of DoD 5100.76M are met for the storage of explosives.

7.41.3. Dormitory and billeting residents desiring to store privately owned ammunition on installation will store such ammunition in a segregated location within the Security Forces (SF) armory.

7.42. Send requests for joint storage of firearms with explosives to NGB/SEW, for coordination with NGB/A4M and NGB/A7S. Requests must include project number to correct the storage shortfall with an estimated completion date.

Table 7.1. ANG Notes.

<p>Table 7.1. NOTE 8: Means to prevent propagation will be determined through an engineering analysis or through application of IMD. If prevention of propagation cannot be obtained, process a deviation IAW chapter 1 of the basic AFMAN 91 201 and identify, track, and review the deviation IAW with the ANG Supplement to identify the incompatible storage.</p>

Chapter 8

EXPLOSIVES TRANSPORTATION

8.4. All movements of munitions off-installation must be coordinated with the installation/Unit Traffic Management function prior to transport to ensure compliance with all regulatory requirements

8.7.3. ANG units may mix compatibility groups IAW this paragraph of the basic manual. Amounts must be limited to the absolute minimum required to complete these operations. Blasting caps and demolition charges must be physically separated.

8.7.4.1. (Added) The EOD unit is the only qualified organization authorized to determine if the condition of dangerously unserviceable munitions is safe for transportation. Drivers responsible for transporting dangerously unserviceable munitions must possess a written EOD authorization document during the entire phase of transportation.

8.12.1. (Added) Post installation maps with on-installation explosives movement routes at the emergency communication center, munitions and maintenance operations control, security forces desk, EOD, and weapons safety.

Chapter 9

PROTECTION OF ELECTRO-EXPLOSIVE DEVICES FROM HAZARDS OF ELECTROMAGNETIC RADIATION TO ORDNANCE (HERO)

9.20.5. (Added) The wing WSM will identify the minimum safe separation distance for each identified transmitting antenna with regards to explosives safety. Safe separation distances that may negatively impact AE will be depicted on the installation Map, Tab D-8 or locally developed equivalent map.

Chapter 10

FIREFIGHTING, EMERGENCY PLANNING AND FIRE PREVENTION

10.7.6.3. The using organization must provide the installation fire chief with documentation justifying strategic and compelling reasons for not posting fire symbols at licensed locations. This documentation must be coordinated through safety and be included as part of the explosives licensing process.

10.12. Any person, directly or indirectly involved with, or within the immediate vicinity can initiate an evacuation IAW procedures outlined within this paragraph of the basic manual.

10.13.7. (Added) Safety Office will coordinate on all fire department pre-fire and emergency management plans relating to AE.

10.14.1. Munitions Control will maintain at a minimum a record of the last two fire drills.

10.16.7. (Added) Other operational factors include the installation Bird/Wildlife Aircraft Strike Hazard (BASH) program.

10.24. Water tank storage capacity will be assessed by the fire department to ensure the quantity is sufficient to fight explosives fires in the event of an emergency. An assessment must be made to determine if the loss of the tank is unacceptable.

Chapter 11

LICENSED EXPLOSIVES STORAGE LOCATIONS

11.5.6. POV, GOV, and AGE parking distance reductions must not be accomplished for convenience. Unit commanders must submit signed documentation justifying mission impacting reasons for the parking reduction at each location. This documentation must be coordinated through base fire protection and wing safety and included as part of the explosives facility license development and approval process. Parking reductions will not be reduced to a distance less than 25 feet from any explosives licensed location.

11.15. Egress explosives components, Compatibility Groups A, K, and L will not be licensed. HD 1.2.1 and HD 1.2.3 will not be stored in a licensed explosives location.

11.16. ANG units will ensure local written procedures are established for clearing jammed guns. Refer to *AFI 21-101 Aircraft and Equipment Maintenance Management* for additional guidance.

Chapter 12

QUANTITY-DISTANCE CRITERIA

12.17.1. Single facilities/locations where multiple explosive operations are conducted are known as concurrent explosives operations. These explosives operations should only take place when mission requirements dictate. Develop an Operating Instruction (OI) addressing the specific restrictions on conducting similar and dissimilar concurrent explosives operations within each facility. Similar concurrent explosives operations do not require Intraline Distance (IL) protection between operations, provided the unit defines within the OI the explosives items, personnel, or operations that are similar in nature, based on factors listed in AFMAN 91-201 paragraph 12.17.1. Dissimilar concurrent explosives operations must be separated by applicable IL distance or equivalent protection. Units will identify within the OI which explosives operations are dissimilar and not to be accomplished concurrently.

12.39.3.2. (Added) Site explosives locations within the airfield runway lateral clearzone and explosives prohibited areas, IAW UFC 3-260-01, as a last resort. When mission requirements dictate, acquire an airfield waiver and submit approved waiver with the explosive site plan.

Table 12.1. ANG Notes.

Table 12.1. Note 13: If aircraft survivability distance is not met the commander responsible for the aircraft must be advised of and accept the additional risk and potential loss of aircraft parked at less survivability distance.
Table 12.1. Note 18: If aircraft survivability distance is not met the commander responsible for the aircraft must be advised of and accept the additional risk and potential loss of unique mission or high value aircraft parked at less survivability distance.
Table 12.1. Note 20: K30 or minimum distances from Table 12.22 may not be reduced from explosives operating and storage locations to DoD non-explosives loaded aircraft. Reductions may be applied from flightline PESs to non-explosives loaded DoD aircraft parking. When reducing K30 protection/minimum separations for flightline PESs the wing commander's approval and acceptance of the risk is required identifying aircraft survivability distance is not met.
Table 12.2. ANG Notes.
Table 12.2. Note 20: If aircraft survivability distance is not met the commander responsible for the aircraft must be advised of and accept the additional risk and potential loss of unique mission or high value aircraft parked at less survivability distance.
Table 12.2. Note 27: If aircraft survivability distance is not met the commander responsible for the aircraft must be advised of and accept the additional risk and potential loss of aircraft parked at less survivability distance.
Table 12.2. Note 29: If aircraft survivability distance is not met the commander responsible for the aircraft must be advised of and accept the additional risk and potential loss of unique mission or high value aircraft parked at less survivability distance.

Table 12.3. ANG Notes.

Table 12.3. Note 6: If aircraft survivability distance is not met, the commander responsible for the aircraft must be advised of and accept the additional risk and potential loss of unique mission or high value aircraft parked at less survivability distance.
Table 12.3. Note 18: If aircraft survivability is not met, the commander responsible for the aircraft must be advised of and accept the additional risk and potential loss of aircraft parked at less survivability distance.
Table 12.3 Note 20: DoD Non-Explosive Aircraft Parking Areas will be separated from flightline PESs by IMD & IL column distances as specified in Table 12.12.

CONTINGENCIES, COMBAT OPERATIONS, MILITARY OPERATIONS OTHER THAN WAR, AND ASSOCIATED TRAINING

13.5.3. ANG units tasked to deploy combat forces will develop procedures with the DoD host to designate facilities and locations for storage, build-up, transportation, inspection, demolition, destruction of unserviceable/hazardous explosives, and munitions loading operations.

13.5.5. Weapons safety personnel must be part of the initial site survey for OPlan or EXPlan taskings.

13.17. EOD units will develop procedures for implementation and training for emergency destruction of munitions. Contact NGB/A7 and NGB/A4 for further guidance.

Chapter 14

EXPLOSIVES SITE PLANNING

14.8. WSMs will participate in all development phases, design review meetings and request for proposal submittals. The WSM will provide explosives safety requirements for unique facility and MILCON plans and act as an advisor to the project engineer to ensure the requirements of the AF, ANG, and DDESB are incorporated into the design effort.

14.11.3. The following information will be submitted with modification requests: project number; type and source of funding; mission impact; number of personnel; existing exception number; detailed plan drawings; and other data necessary to evaluate the request.

14.14.1. Units submitting ESPs for MAJCOM review will ensure ESP checklist (Attachment 1) is accomplished prior to submittal to the NGB/SEW Staff organizational e-mail box at NGB.SEW.Staff@ang.af.mil.

14.14.1.1. (Added) ANG units that have an automated site planning program/database (e.g. (ASHS) Assessment System Hazardous Surveys or (ESS) Explosives Safety Siting) will maintain currency of the database and utilize the program for site plan submissions. The database version used to produce a site plan will be identified in the cover letter of the ESP. Any changes to the program/database must align with CE established and maintained mapping data (i.e. installation layout/C-1 Maps, Short Range Development Plan/M-2 Maps) and be used as the sole data source.

14.14.2. ANG units that are tenants on non-ANG federal installations will comply with the requirements of this supplement unless the host requirements are more stringent.

14.14.5. Wing commander endorsement is required on the ESP transmittal letter, in addition to requirements of paragraph 14.14.5. for all expeditious ESP submissions.

14.15.1.1. NGB approval to start operations will be requested through a memorandum attachment as part of the site plan package. Submitted ESPs requiring additional data or information for further processing will have 45 days after NGB/SEW review to provide appropriate or additionally requested data. ESPs that are on hold for more than 45 days without action cannot be further processed, will be cancelled, and returned to the installation for re-work and re-submittal.

14.15.1.2. ESPs will be reviewed and signed by the applicable wing commander or equivalent

and routed to NGB/SEW for appropriate staff agency coordination.

14.20.2. Management action refers to “control measures”. Use Risk Management approaches to develop these measures IAW section 13C of AFMAN 91-201.

14.22.2.5.1. Compensatory measures will be implemented through commander approved local OIs or locally developed supplemental directives.

14.22.8.1. Continued implementation of compensatory measures will be conducted through commander approved local OIs or locally developed supplemental directives.

14.22.19.3. The Wing commander will endorse the ESP transmittal letter when requesting expeditious approval.

14.25.4. (Added) Include applicable facility drawings for all new facility construction projects located within the explosives clear zone.

Chapter 17

UNEXPLODED ORDNANCE (UXO)

17.1. Recommend ANG safety personnel to work closely with local civil engineering and EOD personnel for all procedures outlined within this chapter.

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Director, Air National Guard

Attachment 9
EXPLOSIVES SITE PLAN REVIEW CHECKLIST

EXPLOSIVES SITE PLAN REVIEW CHECKLIST			
INSTALLATION	UNIT	ESP#	COMMENTS
TRANSMITTAL LETTER			
Purpose and priority of explosive site plan			
Expeditious processing justification and coordination			
Cancellation statement of previous site plan			
Project Identification and Programming, Design, Number			
Statement of reconciliation with installation comprehensive plans			
Statement of EMR/HERO analysis			
Statement of LPS assessment			
Statement of easement/installation boundary violations (If required)			
Statement of compensatory measures or risk assessments			
MAPS AND DRAWINGS			
Definitive drawings numbers for previously approved facilities			
Facility drawings (if applicable)			
Scaled map			
PES in red; ESs in green			
LPS drawings (top, front, side view with dimensions)			
General facility details: dividing walls, firewalls, roofs,			
Ventilation systems, grounding, windows, and utilities.			
Does map match AF Form 943?			
IBD explosives clear zone identified			
Evaluation zone Identified (If applicable)			

AF FORM 943			
PES details (description, NEW, HD, user, # of people, special circumstances)			
PES additional features (e.g. barricades, dividing walls, glass windows, etc.)			
ES details (same as PES)			
All sitting relationships identified			
QD distances evaluated			
Required and actual distances included			
Exceptions Identified			
Appropriate references in column 9 included			
Does AF Form 943 match map?			

RISK ASSESSMENTS			
Glass or LPS risk assessment (If Required)			
Approved by the CC or CV			
Loss of acceptance letters (i.e. Utilities, Water Tanks, POL) as applicable			

COMPENSATORY MEASURES			
Approved by the CC or CV			
Describe compensatory actions			
Local Operating Instruction reference			

MISCELLANEOUS DOCUMENTS			
Restrictive easement (If Required)			
Non Air Force Coordination (If Required)			
TAG Coordination (If Required)			
Airfield waivers (If required)			

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Attachment 10

ANG EXCEPTIONS MATRIX (EXAMPLE)

Table A10.1. ANG EXCEPTIONS MATRIX (EXAMPLE).

MAJCOM	Base	Site Plan Number	Approval Authority	Exception/Compensatory Type	Exception/Compensatory #	Date of Last Review	Review Due	Exception Type	Facility Number	Description of Departure
Identify host MAJCOM	Identify Wing	Identify ESP containing exception	Wing, NGB, SAF	E- Exemption W-Waiver D-Deviation C-Compensatory Measure	Exemption, Waiver, Deviation, Compensatory Measure #	Annotate last review date	3-year or 5-year	Required Separation	Facility Number	(1) Narrative (2) Dist Req/Actual (3) Actions taken
NGB	Fargo	01-S01	321AW	E	01	Jul-09	Jul-14	IBD	1010	1. Exceeds Base Boundary 2. D/A - 65'/D/R - 75' 3. N/A
NGB	Fargo	01-S01	321AW	E	02	Jul-09	Jul-14	PTR	1010	1. Exceeds POV Parking PTR: 2. D/A - 25'/D/R - 75' 3. N/A
NGB	St Louis	05-S01	NGB	W	01	Apr-06	Apr-11	IBD	680	1. IBD exposure to unrelated maint hangar 2. D/A - 298'/D/R - 400'. 3. Laminate glass for personnel protection.
NGB	Toledo	10-S01	NGB	W	01	Nov-10	Nov-13	IL	999	1. Exposure of 10M in trailer maint. 2. D/A – 0 ft D/R – 50 ft 3. Build alt location

NGB	Toledo	11-S01	NGB	W	01	Feb-11	Feb-14	IL	123	1. Exposure of 35M in admin. 2. D/A – 0 ft D/R – 50 ft 3. Build alt location
NGB	Tulsa	10-S01	138FW	D	01	Nov-10	Nov-13	NA	555	1. Combined Exp storage/operations 2. D/A – 0 ft D/R – 50 ft 3. Build alt location
NGB	McEntire	10-006	169FW	C	01	Nov-10	Nov-13	NA	111	1. HD 1.1 removal from 310 prior to using 312 2. D/A – 199ft D/R – 300 ft 3. Compensatory