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Safety

EXPLOSIVES SAFETY PROGRAM



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This instruction establishes responsibilities for mishap prevention in handling, storing, transporting, identifying and controlling explosives and hazardous materials IAW AFMAN 91-201, *Explosive Safety Standards*, and AFMAN 24-204(I), *Preparing Hazardous Material for Military Air Shipments*. It applies to the 89th Airlift Wing, subordinate units, and units of other commands and services maintaining explosive facilities and operations on Andrews Air Force Base (AAFB) and other off-base operating locations under the control of AAFB unit of organization. Unit commanders and their personnel are responsible for reviewing, recognizing, and enforcing mishap prevention and damage control techniques, procedures, and requirements of the Air Mobility Command (AMC) Mishap Prevention Program. USAF responsibilities imposed on explosives functions will be supported by all levels of management and operations as defined in AFI 91-202, *The US Air Force Mishap Prevention Program*. Every unit with an explosive mission will be responsible for conducting an effective mishap prevention program monitored by the wing criteria contained in this instruction which may change when new evidence indicates that either more or less protection is required. This instruction implements AFMAN 91-201.

SUMMARY OF REVISIONS

This instruction updates the explosives safety program. It establishes a single staff agency, under the chief of safety, with the responsibility for managing the base wide explosives safety program. It expands and outlines duties, responsibilities and objectives which, when implemented, will provide minimum protection for the public and the military from hazards associated with explosives. **A bar (|) indicates a change since the last edition.**

1. Policy and Concepts.

1.1. Program Policy:

1.1.1. This instruction establishes policies, concepts, responsibilities and procedures for implementing and managing the 89th Airlift Wing Explosive Safety Program. It gives directions for

complying with the storage, handling, maintenance, and transportation of explosives and hazardous cargo on AAFB and off-base locations.

1.1.2. The single objective of this program is to prevent explosives mishaps. It tells each commander, functional manager, supervisor and explosives safety personnel, at every level, how mishap prevention procedures are to be applied. Safety must be integrated into all functional areas and made an essential part of every task.

1.2. Concepts:

1.2.1. Because of the inherent characteristics and disaster potential of explosives, the 89 AW's concept of explosives risk is: Expose minimum resources to minimum quantities of explosives for the shortest possible time and then only when such exposure is essential for mission accomplishment.

1.2.2. This safety program is keyed to before-the-fact hazard identification for mishap prevention, not after-the-fact investigation. The goal of this program is to preserve mission capability by eliminating or controlling explosive hazards to personnel and property.

2. General Program Responsibilities.

2.1. **The 89 AW Commander.** The 89 AW Commander is responsible for the overall explosives safety program on AAFB.

2.2. **Chief of Safety.** The chief of safety is responsible for staff management of the base safety program. They provide assistance and advise the commander, 89 AW, on developing and implementing an effective mishap prevention program. They obtain HQ AMC Directorate of Safety approval to fill explosives manager positions. Coordination with the servicing central civilian personnel office is required to ensure the individual(s) selected will have technical qualifications necessary to perform required explosive safety duties.

2.3. **Unit Commanders.** Commanders have the final responsibility for explosives safety--it goes with the job of being a commander. They set safety policy, guide and support the development of this program within their organization. Their attitude and actions will determine the affect of mishap prevention.

2.4. **Functional Managers.** Functional managers are responsible for enforcing explosives safety program requirements as directed by their commander and supporting the requirement of this directive. They must make sure the commander's policies are understood and followed by each supervisor.

2.5. **Supervisors.** Supervisors share the responsibility for preventing explosive related incidents and mishaps by strict enforcement of instructions and guidelines. They are the closest link in the management chain of the people who do the work, and must actively promote explosives safety at the working level. They instruct unit personnel as to their duties and certify their qualifications to perform designated tasks before starting explosives operations. The attitudes of workers toward explosives mishap prevention is likely to reflect the attitude of their supervisors.

2.6. **Individual Responsibility.** Personnel must comply with explosives safety standards in the work place. They are responsible for informing their supervisors of hazards and unsafe conditions in their working and living areas.

2.7. **Weapons Safety Manager.** The weapons safety manager will develop and manage one coordinated explosives safety program for AAFB. They will apply the program requirements to all organizations (including tenants) participating in or controlling explosives operations and storage facilities on AAFB.

3. **Explanation of Terms.** The following terms and phrases commonly used in explosives safety operations are described here to provide uniformity:

3.1. **Ammunition and Explosives.** Includes (but not necessarily limited to) all items of ammunition: propellants; liquid and solid; high and low explosives; guided missiles; warheads; devices; pyrotechnics; chemical agents; components thereof; and, substances associated with presenting real or potential hazards to life and property.

3.2. **Hazardous Materials.** Explosives and other dangerous articles, such as, flammable liquids and solids, oxidizing materials, corrosives, compressed gases, poisons and irritating materials, etc.

3.3. **High-Hazard Areas.** Any area where explosives (other than those in DOD Class/Division 1.4) are stored, handled or used.

3.4. **Buddy System.** At least two persons are present so that one may give assistance to the other in the event an emergency occurs.

3.5. **Quantity-Distance (QD).** The quantity of explosive materials and the required distance needed to separate these items from each other, other locations or resources, and provide defined types of protection. These are minimum mandatory distances, established by the DOD Explosives Safety Board (AFM 91-201, Chapter 4).

3.6. **Deviation.** Written authorization which allows a specific departure from a mandatory requirement, other than QD criteria.

3.7. **Exemption.** A relatively long-term departure from a mandatory requirement of a QD standard.

3.8. **Waiver.** Written authority for a specific departure from a mandatory QD requirement for a stated length of time, usually 1 year.

3.9. **License.** Written authority to store explosives or munitions outside the sited explosives storage area.

4. **Minimum Explosives Safety Requirements.**

4.1. **Introduction.** These minimum explosives safety requirements provide basic guidance for implementing and managing the explosives safety program. They will not relieve any individual of his/her responsibility for becoming knowledgeable of, and conforming to, safety requirements contained in other publications applicable to the task being performed.

4.2. **Weapons Safety Manager (89 AW/SEW) will:**

4.2.1. Exercise staff direction, monitor, and coordinate all wing explosive safety program policies and standards.

4.2.2. Possess clearance for access to Secret/Classified information and have immediate access to all explosives operations/facilities.

4.2.3. Act as point of contact on explosives safety matters, and advise 89 AW Chief of Safety, commanders and other concerned individuals of safety matters that may require their attention.

4.2.4. Conduct semiannual, annual, and spot inspections of all explosives operations and facilities. The following units have hazardous operations or have been identified as a hazardous location and; therefore, are required to be inspected semiannually and a formal report submitted:

4.2.4.1. DynCorp (Formerly 89 MXS) Munitions Storage Area

4.2.4.2. 89th Airfield Management

4.2.4.3. 89th Security Forces Squadron

4.2.4.4. 89th Airlift Wing Life Support Shops

4.2.4.5. 459th Airlift Wing

4.2.4.6. 113th Wing

4.2.4.7. Naval Air Facility Ordnance Division

4.2.4.8. Reserved

4.2.4.9. In addition, all identified hazardous locations will be spot inspected monthly by safety staff personnel.

4.2.5. Approve/disapprove AF Form 2047, **Explosives Facility License**, for explosives storage facilities, and keep the wing explosives facility license file current.

4.2.6. Process AF Form 457, **USAF Hazard Reports**, and AF Form 2047, which identify explosives mishaps and violations of QD requirements.

4.2.7. Participate in planning that involves "Safe Haven" activities and contingency plans for in-transit explosives storage.

4.2.8. Review and coordinate on all explosives operating instructions and lesson plans developed by units to implement this instruction.

4.2.9. Review plans for new construction or modifications of explosives facilities or activities to be located within explosives clear zones.

4.2.10. Maintain a current copy of TAB C-1 and M-3 of the Base Master Plan to be given to higher headquarters explosives safety inspectors.

4.2.11. Review and coordinate on Host-Tenant Support Agreements, AFI 91-201.

4.3. Munitions Element (DynCorp/89 MXS/LGMCW) will:

4.3.1. Manage the base munitions storage area(s).

4.3.2. With HQ AMC/LGSM concurrence, allow non-military organizations the use of the munitions storage area (MSA) under the following conditions:

4.3.3. Use is authorized in a written agreement between the base and the organization desiring support. The agreement must contain a statement which indicates that the MSA supervisor is responsible for ensuring the suitability of activities/operations conducted in the base MSA.

4.3.4. The supervisor or their representative must ensure explosives intended for storage are properly packed, marked, and stored in accordance with the compatibility requirements of AFM

91-201. The munitions area supervisor or a representative will be present whenever explosives are placed in, or removed from storage by the using agency.

4.3.5. Non-military explosives operation and facilities must be inspected monthly by weapons safety personnel and also by the munitions area supervisor or his/her representative to ensure compliance with the provisions of both AFM 91-201 and pertinent agreements.

4.3.6. Non-military agencies will not be granted exclusive use of facilities without the implementation of controls along the lines discussed herein.

WARNING: Nonstandard hazardous materials have a high probability of being extremely sensitive. Confiscated, homemade, or items of unknown composition will be treated with the utmost care.

4.3.7. Open boxes, loose/leaking explosives etc., will not be permitted in storage. Agreements may stipulate packing/marking by host personnel to ensure compliance with this requirement. Packaging/handling costs will be chargeable to the organization requiring such service.

4.3.8. Agencies desiring to use the MSA facilities will be required to develop appropriate written procedures IAW paragraph 4.4. of this instruction.

4.3.9. Failure to comply with above requirements will be cause for immediate cancellation of the and removal of the non-military agency's explosives.

4.3.10. Review and coordinate on all AF Forms 2047.

4.3.11. Establish procedures and exercise final approval authority for all requests for locally purchased explosives and the control of such items on AAFB.

4.3.12. Ensure that contingency plans are developed for storing in-transit explosives and supporting Department of Energy (DOE) "Safe Haven" activities in the munitions storage area.

4.3.13. Report all fire symbol(s) and chemical warning signs, posted or changed in the munitions storage area, to the base fire department control center.

4.3.14. Ensure operating instructions (OIs) are prepared IAW AFI 37-160, Vol 1 are available for accepting, storing, transporting or handling explosives. These OIs will be coordinated through the base fire protection, security forces, explosives safety and other concerned agencies.

4.3.15. Prepare AF Form 2047 for each structure/area used to store, handle or use explosives in the munitions storage area.

4.3.16. Prepare requests for waivers, exemptions and/or deviations when it is determined, for compelling or strategic reasons, to be impractical to comply with mandatory requirements of AFM 91-201. Ease of operation will not be the reason for such requests.

4.3.17. Make sure smoking, matches, flame or sparking devices, such as welding torches, are prohibited in explosives facilities, except as authorized by the base fire department.

4.3.18. Make sure the unit explosives safety representative attend the annual training class provided by 89 AW/SEW. These personnel will then provide training to unit personnel.

4.3.19. Immediately report all explosives mishaps/incidents to 89 AW/SEW.

4.3.20. Maintain all explosives facilities in good state of repair and free from combustible materials.

4.4. Commander, Logistics Readiness Squadron will:

- 4.4.1. Ensure element/section OIs are developed to enforce this instruction and implement the requirements of Chapter 6, AFM 91-201, to include non-duty hours reception and security procedures for ground shipments of hazardous/sensitive cargo.
- 4.4.2. Inspect and control motor vehicle shipment of Class A and B ammunition, explosives, poisons, or radioactive yellow III label materials prior to entering/departing the base. EXCEPTION: Truckload shipments weighing 10,000 pounds or more containing other low-category hazardous/sensitive class materials should be inspected as well.
- 4.4.3. Make sure vehicles used to transport explosives/hazardous cargo meet the requirements of DD Form 626, **Motor Vehicle Inspection (Transporting Hazardous Material)**.
- 4.4.4. Provide DD Form 836, **Special Instructions for Motor Vehicle Inspection (Transporting Hazardous Material)**.
- 4.4.5. Consult DynCorp/89 MXS/LGMCW and/or 89 AW/SEW on questions concerning compatibility of explosives during transportation.
- 4.4.6. Report damaged or improper shipments in accordance with paragraph 6-10, AFM 91-201.
- 4.4.7. Report the arrival of explosives laden vehicles to security police, fire department, weapons safety manager and MGMC Bioenvironmental Engineering Services.
- 4.4.8. Inspect vehicle cargo, complete DD Form 626, and release shipment to consignee.
- 4.4.9. Ensure departing explosives laden vehicle shipments are properly labeled, loaded and warning placards meet DOT and USAF requirements. Reporting procedures for departing vehicles will be as indicated in paragraph 6.14.2.
- 4.4.10. Complete DD Form 628 and DD Form 836 for vehicle drivers prior to departure of the shipment.

4.5. Chief, Plans and Disaster Preparedness (89 CES/CEXV) will:

- 4.5.1. Develop and coordinate plans to support DOE Safe Haven convoys with 89 AW/SEW IAW AFR 207-8 and/or 89 AW OPlan 207.
- 4.5.2. Ensure that explosives safety distances are applied, prior to designating facilities for any operation that involves explosives or hazardous cargo activities.
- 4.5.3. Review Host-Tenant Support Agreements to make sure they contain the requirements of AFM 91-202.

4.6. 89th Civil Engineer Squadron (89 CES/CC) will:

- 4.6.1. Ensure that TABS C, M and D of the Base Master Plan reflect current information pertaining to explosives (QD) facility clear zones.
- 4.6.2. Notify base weapons safety manager of preconstruction conferences for any work to be performed within munitions storage areas.
- 4.6.3. Ensure site plans for new construction or modification of explosives facilities (or the exposure to explosives hazards) are submitted to 89 AW/SEW for review and approval prior to submitting new construction projects.

4.6.4. Ensure the lightning and grounding systems in the munitions storage area are tested for continuity and resistance as required. Test records will be maintained and file copies provided to the using organization and 89 AW/SEW.

4.6.5. Ensure the airfield static grounding points for explosives on and off loading areas (hot spots) are tested and the date of test documented.

4.6.6. Develop procedures for the maintenance, storage, and use of ramset tools and cartridges. Personnel authorized to use these tools must be trained and licensed IAW Maryland State law.

4.6.7. Maintain vegetation control and road conditions for year-round use, to and in the areas of munitions storage and aircraft hazardous cargo parking area.

4.6.8. Prepare and coordinate with 89 AW/SEW detailed plans for all training exercises involving explosives or munitions prior to implementation.

4.6.9. Require the base fire department to maintain an on-base map showing current explosives locations, Class/Division of explosives, fire symbols and chemical hazard markers. The department will keep a current file of AF Form 2047 as provided by 89 AW/SEW.

4.6.10. Ensure the base fire department conducts fire drills within the munitions storage area at intervals not to exceed 6 months.

4.6.11. Ensure the base fire department acts as approval authority for smoking permits and heat producing devices allowed in all explosives licensed facilities, except those areas identified in AFM 91-201.

4.7. 89th Operations Squadron (89 OSS/OSA) will:

4.7.1. Participate in the air movement of explosives/hazardous cargo and ensure the implementation of local emergency or contingency plans involving airfield support of aircraft operations.

4.7.2. Coordinate aircraft parking for all inbound/outbound explosives laden aircraft.

4.7.3. Notify the command post (CP), base fire department (CEF) and base safety (SE) of inbound and outbound aircraft transporting hazardous cargo as defined in AFI 11-204.

4.7.4. Establish a minimum of two aircraft parking spots, the hot cargo pad is capable of handling 30,000 pounds Net Explosives Weight (NEW) of Class/Division 1.1 explosives, Compass Rose capable of handling 10,000 pounds of NEW.

NOTE: AAFB is not authorized to handle Class/Division 1.1 or 1.2 explosives/munitions that are classified as category (18) or (21).

4.7.5. Be notified by in route aircraft of the NEW of Class/Division 1.1, 1.2, and 1.3 explosives, and other hazardous cargo requiring on/off-loading.

4.7.6. Develop local operating procedures for Bird Aircraft Strike Hazard plan in accordance with AFI 91-202, Chap 7.11.

4.7.7. Conduct periodic inspections of airfield explosives loading/off-loading areas to ensure that static grounding points are being tested. Records of these inspections and test results will be maintained in unit files and a copy of the test results sent to the base safety office.

4.7.8. Follow procedures for event waivers. When required, the wing commander may authorize a temporary waiver for storage of explosives laden carriers, their cargo and associated convoy

defense weapons and ammunition when essential to cover emergency situations (e.g., Safe Haven convoys). The waiver is not to exceed the duration of the emergency. These event waivers must be coordinated with Base Safety, approved by 89 AW/CC and message notification submitted to HQ AMC/SG.

4.7.9. Provide input to the Terminal Facility Guide and the Flight Information Publication to ensure base capability for handling explosives laden aircraft is not exceeded.

4.7.10. Review flight plans for inclusion of hazardous cargo information required by AFI 11-204. Non-AMC aircrews will receive a verbal briefing and written information pertaining to hazardous cargo.

4.7.11. Report violations of advance notification procedures for aircraft transporting hazardous materials IAW AFI 11-204 and provide base safety with information copy.

4.8. Andrews Command Post (89 AW/CP) will:

4.8.1. Coordinate aircraft parking for loading/off-loading explosives laden aircraft.

4.8.2. Include hazardous cargo information in aircraft department messages

4.8.3. Notify base fire department, disaster preparedness and base safety of inbound/outbound aircraft transporting hazardous cargo as defined in AFI 11-204.

4.9. 89th Aerial Port Squadron (89 APS) will upon proper notification:

4.9.1. Control the air shipments of explosives or hazardous cargo and will perform loading/off loading on the airfield.

4.9.2. Be the control point for information on air shipments of explosives or hazardous cargo.

4.9.3. Coordinate with 89 OSS/OSA and 89 AW/CP for aircraft parking and to ensure loading and off-loading start and stop times are passed in a timely manner.

4.9.4. Comply with traffic, transportation and safety directives during all hazardous cargo operations. Deviations from mandatory procedures must be approved by 89 AW/SEW.

4.9.5. Perform inspections and control of assigned motor vehicles used in explosives operations IAW AFM 91-201 and supporting directives.

4.9.6. Maintain facilities and ensure qualified personnel accept, inspect, document, and report hazardous cargo for airlift or surface shipments IAW AFR 71-4 and supporting directives.

4.9.7. Develop contingency plans for handling explosives, loading aircraft and expanded in-transit explosives storage capability.

4.9.8. Develop unit training programs required by AFM 91-201, AFI 91-202, and supporting directives.

4.9.9. Ensure information on Department of Transportation (DOT) Class A and B explosives, poisons, munitions, and biological research agents are contained in the Terminal Facilities Guide (AFR 75-2, Vol 4).

4.9.10. Develop written operating instructions on all phases of explosives/hazardous cargo operations not adequately covered in other standard publications. A separate written procedure will be developed for electrical storms.

4.9.11. Document explosives safety training provided to unit personnel whose duties involve contact with explosives/hazardous cargo.

4.9.12. Designate in writing personnel authorized to sign DD Form 1387-2, **Special Handling Data/Certification**.

4.10. Life Support Equipment Technicians will:

4.10.1. Maintain explosives items in secured storage cabinets.

4.10.2. Maintain formal records of issue, receipt, inspection and turn in of all explosives items.

4.10.3. Return time-change and unserviceable munitions to the Munitions Supply Account for disposition.

4.11. Commander, 89 Security Forces (89 SFS/CC) will:

4.11.1. Maintain armory munitions storage to comply with AFM 91-201, AFR 125-37 and other applicable safety and security instructions.

4.11.2. Notify base fire department and safety on all explosives movements.

4.11.3. Provide security for temporary explosives storage outside secured areas and DOE Safe Haven convoys as required.

4.11.4. Ensure gate guards direct all explosives or hazardous cargo loaded vehicles to the appropriate gate for entry to the base.

4.11.5. Ensure element/section OIs are developed which specifically address non-duty hours reception and security procedures for ground shipments of hazardous/sensitive cargo.

4.11.6. Maintain explosives used for detector dog training in a serviceable condition, including proper packaging and lot number integrity.

4.11.7. Keep accurate records of lot numbers and type of ammunition expended on the small arms training range. Use oldest lot of ammunition first.

4.11.8. Recover, account for, and package cartridge cases of ammunition used on the small arms range for turn in to the ammunition storage area.

4.11.9. Notify the munitions storage area of all uses and malfunctions of explosives/ammunition issued to the unit supply points.

4.11.10. Maintain serviceability and lot number accountability of all ammunition kept in a ready-to-use status.

4.11.11. Immediately notify 89 AW/SEW should problems occur while inspecting explosives storage or operations, during personnel or dog training or while escorting explosives/hazardous cargo vehicles.

4.11.12. Prepare and coordinate with 89 AW/SEW request for permission to conduct training involving explosives or munitions on the installation.

4.11.13. Prepare and coordinate with 89 AW/SEW detailed plans for all training exercises involving explosives or munitions prior to implementation.

4.12. Chief, Disaster Preparedness (89 CES/CEXV) will:

4.12.1. Coordinate plans with 89 AW/SEW when their activities involve explosives or hazardous cargo.

4.12.2. Monitor nuclear or radioactive substances that are to be accepted or offered for shipment to ensure proper shielding and notify the Bioenvironmental Engineer of abnormal conditions.

4.13. 89 MDG/SGPB, Bioenvironmental Engineering Services will:

4.13.1. Provide the required assistance needed for the control of any radiological exposures when identified by disaster preparedness personnel.

4.13.2. Provide guidance for the safe shipping, handling and storage of hazardous explosive materials. In addition, Bioenvironmental Engineering will also conduct the environmental monitoring necessary to protect the Disaster Response Force and ensure that clean-up procedures are adequately accomplished.

4.14. U.S. Customs Services. U.S. Customs Services will make sure legally confiscated explosives or hazardous cargo items are immediately reported to Andrews Command Post for removal by U.S. Army EOD from the passenger terminal.

4.15. All Tenant Units on Andrews AFB and Operating Locations:

4.15.1. Tenant units are responsible for implementing the requirements of this instruction.

4.15.2. Where this directive and tenants conflict, differences will be resolved IAW AFI 25-201, *Support Agreement Procedures*.

4.15.3. Authorized deviations must be included in concurrent use agreements.

4.15.4. Will permit the base explosives safety officer to inspect all explosives operations within their area of responsibility.

4.15.5. Will report explosives operational hazards and explosives mishaps to 89 AW/SEW.

4.15.6. Will coordinate all requests for explosives facility sittings, deviations and/or waivers with the weapons safety manager and 89 CES/CECP. The Commander, 89 AW, is the final approval authority for "event waivers" to deviate from quantity distance requirements.

4.15.7. Prepare a local written procedure for all explosives operations on all phases of explosives/hazardous cargo operations not adequately covered in other standard publications.

4.16. Contracting (89 CONS) will:

4.16.1. Provide advance notification to base safety of any anticipated work to be performed on/in base explosives facilities or explosives clear zones.

4.16.2. Notify base safety of "preconstruction meeting" so the weapons safety manager may attend.

4.16.3. Ensure explosives safety requirements, provided by the explosives safety officer, are included in the contract.

4.16.4. Notify construction contractors working within explosives locations, that they will comply with safety requirements contained in AFM 91-201. A copy of this instruction will be given to the contractor at the preconstruction conference. The base weapons safety manager will assist the contractor in implementing these safety standards.

4.16.5. Ensure contractors are aware that 89 AW/SEW is authorized to halt activities where explosives safety standards are being violated.

4.16.6. Coordinate all requests for local purchase of commercial explosives/munitions items through the munitions area contractor and 89 AW/SEW.

4.17. Aircraft Safetying for Hangar Maintenance:

4.17.1. Before moving aircraft into a hangar, a qualified aircraft maintenance technician will inspect and certify its safety on the maintenance documents. (The unit chief of maintenance selects the maintenance technicians.)

4.17.2. Require technicians to ensure that the safetying of egress/ejection/firing systems is completed before starting the work. All aircraft containing systems explosives components will be handled in accordance with T.O. 11A-1-33.

4.18. Government Quarters Explosives Storage:

4.18.1. The storage of personally owned weapons and small quantities of small arms ammunition in family quarters is authorized when approved by local authority. Personnel are not permitted to store small arms primers and propellants; amateur rockets; commercial marine signals and launchers; or to hand-load any kind of ammunition/rockets in or around government housing, barracks or trailer-type living quarters.

4.18.2. Personnel residing in AAFB dormitories are not allowed to keep in their possession, weapons and ammunition. These items will be turned in to the security forces Armory for safe-keeping. Access, handling, and use of these weapons will be in accordance with security forces procedures and state law.

4.18.3. Individual use of commercial fireworks on-base is not authorized. The use of commercial fireworks during base holiday celebrations does not require approval when commercial vendors handle all aspects of the fireworks display and do not require base storage support or participation/handling of fireworks by base personnel. However, approval for local procurement/purchase of fireworks will be required when the individual items require local storage, handling, and functioning by military personnel or government employees. Such authorization will be in accordance with AFI 91-201.

NOTE: Fireworks found on base or confiscated will be placed in isolated storage until they can be destroyed by qualified explosive ordnance disposal (EOD) personnel.

4.19. Explosives Disposal:

4.19.1. Requests for routine disposal of explosives are made through the DynCorp/89 MXS/LGMWC, according to prescribed supply procedures. Munitions scrap/residue will be inspected prior to turn in to disposal agencies. All requirements of T.O. 11A-1-60 must be met. Only qualified munitions inspectors, by Air Force Specialty Code (AFSC), will be utilized. Non-AMC or AMC gained units will request this service in accordance with unit support agreements. The local disposal of explosives is made by EOD personnel assigned to the 149th Ordnance Detachment.

4.19.2. The 149th Ordnance Detachment (EOD) will:

4.19.3. Provide EOD support to AAFB and other areas of responsibility.

4.19.4. Establish and conduct a specialized training program consistent with assigned unit's needs.

4.19.5. Provided wing commander with EOD advisory service on matters pertaining to EOD.

4.19.6. Ensure that a comprehensive operating instruction is prepared and available for accepting, storing, transporting, and loading explosives. These OIs will be coordinated as a minimum through base fire protection, security forces, explosives safety and other concerned agencies. All local written procedures will contain the minimum requirement of AFM 91-201.

4.20. **Waivers, Deviations and Exemptions (AF Form 943):**

4.20.1. The agency with supervisory responsibility for operations is responsible for preparing waivers/deviations/exemptions requests. These requests will be submitted to 89 AW/SEW for review and signature.

4.20.2. Event waivers, not to exceed the duration of the emergency, for contingency or unexpected situations, can be granted by 89 AW/CC with telephone concurrence of 21 AF/SEW. HQ AMC/SEW will be advised within 24 hours of start of waiver period when such authority is used.

4.20.3. Other waivers/deviations/exemptions will be submitted in an original and five copies for signature by 89 AW/CC. (See AFM 91-201, Chapter 7). Strong emphasis will be given in the justification, Block 12, of the form. The identification number will be added by 89 AW/SEW from the command waiver/deviation/exemption register prior to signature by the wing commander.

4.20.4. Renewal of short-notice event waivers is not authorized. Requests for all other waivers/deviations/exemptions must be submitted 60 days prior to the expiration date granted by HQ AMC/SEW. Submit in same number of copies as original request.

4.21. **Training Requirements/Qualifications of Explosives/Hazardous Cargo Operators.**

4.21.1. Provide explosives safety training to people who handle, transport, maintain, load or unload, or dispose of explosives/munitions. It is given initially before doing an explosives task, and then training will be accomplished annually. This training must be tailored to the specific duties and type of explosives involved.

4.21.2. Unit lesson plans coordinated with the base weapons safety manager will be used when conducting explosives safety training.

4.21.3. Explosives safety training will be documented. Use AF Form 1098, **Special Task Certification and Recurring Training**, Maintenance Management Information and Control System (MMICS) or other appropriate training record.

4.21.4. Operators of vehicles and equipment whose duties frequently involve the transportation/movement of explosives must be carefully selected, adequately trained, tested and have a thorough knowledge of safe handling procedures and requirements. The training of individuals selected is the responsibility of the unit. The following requirements are applicable to all vehicle/equipment operators whose duties require the transportation or movement of all DOD Class/Division explosives. Written local procedures will be developed.

4.21.5. Individuals will be tested on their knowledge of safe handling procedures and requirements.

4.21.6. For initial certification a 25-question test will be administered by the Wing Explosives Safety Manager. A passing score of 80 must be obtained for certification. For any individual who fails to attain a passing score of 80 on the written test after two attempts, he/she must have a letter signed by the unit commander prior to being administered the test again.

4.21.7. Operators will be certified on AF Form 483, **Certificate of Competence**, as "Explosives Trained." Certification will also be reflected on appropriate training records (AF Form 1098, MMICS, etc.).

4.22. Designated Explosives/Hazardous Cargo Vehicle Surface Routes and Safe Haven Convoy Routes: See [Attachment 1](#).

4.22.1. All explosives/hazardous cargo loaded vehicles will enter and depart the base through the North Gate. Vehicles entering the gate will be held at the gate until arrival of the Traffic Management Office (TMO) inspectors. EXCEPTION: EOD vehicles will be allowed to enter and depart through any gate when responding to an emergency.

4.22.2. When cleared for movement by TMO, vehicle(s) will be escorted to the off-loading destination.

4.22.3. Suspect vehicles and vehicles requiring temporary parking (depending on circumstance) will be escorted to the holding area (Holding Point #1), located at the intersection of Wisconsin and Wheeling Road until the discrepancy is corrected or the emergency situation has been terminated.

4.22.4. Shipments going to the munitions storage area will be escorted along the primary or alternate route. Primary route is south along Patrick Avenue to the traffic circle, then east on Fetchet Avenue to East Perimeter Road and then south to Wisconsin Avenue, then to San Antonio Boulevard to the storage area access road. The alternate route is--North Perimeter Road and Arnold Avenue to South Dakota Avenue, west on South Dakota Avenue, then south along the aircraft ramp, cross Taxiway 7 to access road by POL, east on San Antonio Blvd to access road to the munitions storage area.

4.22.5. Shipments going to the flight line area will be escorted along the primary or alternate route and enter the area using Taxiway 7.

4.22.6. Internal base movements require proper packaging, bracing and other tie downs. Prescribed vehicle routes will be used when possible; however, direct flight line deliveries may be made by the most direct route that minimizes exposure to personnel and property. See [Attachment 2](#).

4.22.7. DOE Safe Haven convoys will be escorted to Holding Point #1 pending identification of couriers and determination of required assistance. All traffic will be prohibited from this area until a suitable holding area is determined. (See AFI 32-4001, *Disaster Preparedness Planning and Operations*).

4.22.8. Under normal conditions explosives loaded vehicles will enter the base between the hours of 0900 and 1600 hours, Monday through Friday. Shipments arriving at other times will be held at the gate until arrival of ammunition storage area personnel and TMO inspectors.

4.23. Aircraft Explosives Cargo Loading/Unloading:

4.23.1. The loading/unloading of explosives cargo will be done by 89 APS Aircraft Services work center personnel at the following locations:

EXPLOSIVES

LOADING

<u>SPOT</u>	<u>LOCATION</u>	<u>EXPLOSIVES LIMITS</u>	
1	Cargo Hot Pad	(HD) 1.1	(HD) 1.2.2
		30,000	30,000
		(HD)1.3	(HD) 1.2.3
		100,000	Aircraft Capability
2	Calibration	1.1	1.2
	Hardstand	9,000	30,000
	(compass rose)		
	South end	1.2.3	1.3
	Taxiway Whiskey	10,000	10,000
		(HD) 1.4 Aircraft Capability	

4.23.2. Engine running on/off-load (ERO) procedures will not be conducted unless authorized by the JA/AAT exercise operations order or contingency air tasking order.

4.23.3. When using explosives spots 1 and 2, Taxiway Whiskey, and Pad 94 will be closed during on/off-loading.

4.24. Armed Aircraft Operations:

4.24.1. Peacetime flying missions requiring the use of High Explosives (HE) loaded aircraft are prohibited at this base. Simulated or practice munitions will be used for these missions, or the operations moved to a location capable of supporting HE loaded aircraft.

4.24.2. Missions conducted in support of national emergency will be supported to the maximum extent permitted law.

4.25. Local Written Procedures. Local written procedures (operating instructions, maintenance operating instructions, squadron instructions) will be prepared for all explosives operations. Local written procedures will be used during all explosives operation (except EOD render safe procedures). They will be written in the standardized format specified in AFI 37-160, Vol 1 containing the minimum requirements of AFM 91-201. Each operating instruction will be approved at the squadron commander level or equivalent. As a minimum these written procedures will be coordinated through base fire protection, security forces, weapons safety and other concerned agencies prior to use. Where procedures are covered in sufficient detail by technical orders, or other standard publications, they need not be reported in local written procedures. Each local written procedure will be reviewed annually by the functional manager and the wing weapons safety manager. The operating instruction, on file within the unit and the safety office, will be annotated to reflect the review date and the signature of

the reviewer. Failure to comply with the above requirements will result in the unit's or using agency's facility licenses or authorization to store, handle or use explosives during training to be rescinded.

4.26. **Unit Explosives Safety Representative.** The commander of organizations using, storing, handling or transporting explosives will appoint an explosives safety officer or NCO (preferably E-6 or above) or a civilian equivalent. As a minimum an individual in the grade E-5 will be accepted to implement and manage the unit explosives safety program. This individual will act as the point of contact with the base safety office. They will receive initial explosives safety training from the base weapons safety personnel. A copy of the appointment letter will be sent to 89 AW/SEW.

4.27. **Explosives Mishaps/Incidents.** All explosives mishaps/incidents will be immediately reported to the base safety office. These mishaps/incidents will be reported and processed in accordance with AFI 91-204. A copy of these reports will be sent to 89 AW/SEW.

GLENN F. SPEARS, Brig Gen, USAF
Commander

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

AFMAN 10-401, *Operation Plan and Concept Plan Development and Implementation*
AFMAN 24-204, *Preparing Hazardous Material for Military Air Shipments*
AFMAN 91-201, *Explosive Safety Standards*
AFI 91-202, *The US Air Force Mishap Prevention Program*
AFJI 11-204, *Operational Procedures for Aircraft Carrying Hazardous Materials*
AFI 25-201, *Support Agreement Procedures*
AFI 32-4001, *Disaster Preparedness Planning and Operations*
89 AW OPlan 207

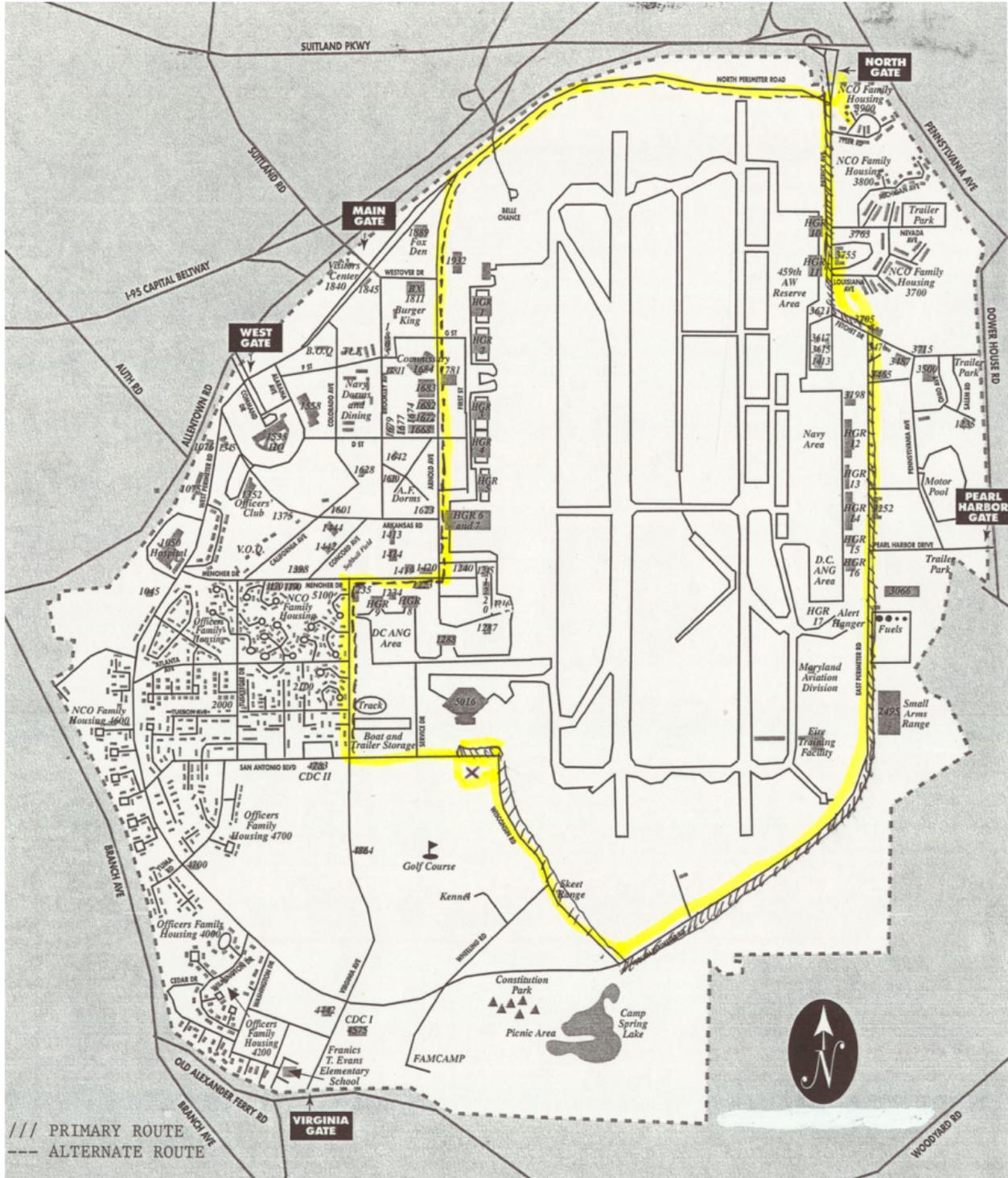
Abbreviations and Acronyms

AAFB—Andrews Air Force Base
AFSC—Air Force Specialty Code
AMC—Air Mobility Command
CEF—Base Fire Department
CP—Command Post
DOE—Department of Energy
DOT—Department of Transportation
EOD—Explosive Ordnance Disposal
ERO—Engine running on/off-load
HE—High Explosives
MDG—Medical Group
MMICS—Maintenance Management Information and Control System
MSA—Munitions Storage Area
NEW—Net Explosives Weight
OI—Operating Distance
SE—Base Safety
89 APS—89th Aerial Port Squadron
89 AW/CP—Andrews Command Post
89 AW/SEW—Weapons Safety Manager

- | **89 CES/CC**—Base Civil Engineer
- | **89 CES/CEXV**—Chief, Plans and Disaster Preparedness
- | **89 CONS**—89th Contracting Squadron
- | **89 OSS/OSA**—Base Operations and Training Division
- | **89 SFS/CC**—Chief of Security Forces

Attachment 2

EXPLOSIVES MOVEMENTS ROUTES



Attachment 3

PRESCRIBED SHIPMENT ROUTES

A3.1. The prescribed routes indicated in this attachment will be used for intra-base shipment of explosives. Intra-base deliveries will be made only by those individuals trained and certified to transport explosives. Quantities and Class/Division will not exceed authorized amounts indicated on approved AF Form 2047, **Explosives Facility License**. See **Attachment 1** for primary and alternate explosives routes.

A3.2. Shipments for units and activities located on the east side of Andrews AFB will be accomplished utilizing the prescribed route indicated when possible. The primary route is from the Munitions Storage Area using the Access Road to San Antonio Boulevard, east on San Antonio Boulevard to Wisconsin Road, to South Perimeter Road at which point the most direct route that minimizes exposure to personnel and property will be used. Below are the units with operations on the east side of the base and their location.

A3.2.1. The 89th Security Forces Combat Arms Training/South Perimeter Road (Bldg 2355).

A3.2.2. The 113th Wing/Flight line Access Road, Weapon Servicing (Bldg 3004), Flight line Holding Area (Bldg 768), Egress Shop (Bldg 3119), Resource Protection, Annapolis Street (Bldg 3212).

A3.2.3. Marine Aircraft Group/Annapolis Street (Bldg 3148, Hangar 14).

A3.2.4. Naval Air Facility/Bainbridge Street (Bldg 3148, Hangar 14), San Diego Loop (Bldg 3188), (Hangar 12 and Bldg 3198).

A3.2.5. The 89th Civil Engineer Prime BEEF/Tennessee Ave (Bldg 3445).

A3.2.6. The 459th Airlift Wing Aerial Port/Seattle Ave (Bldg 3683), 756th Airlift Squadron/Seattle Ave (Bldg 3613), 459th Consolidated Aircraft Maintenance Squadron/East Perimeter Road (Bldg 3640).

A3.3. Shipments for units and activities located on the west side of Andrews AFB will be accomplished utilizing the prescribed route indicated when possible. The primary route is from the Munitions Storage Area using the Access Road to San Antonio Boulevard. Cross intersection onto Taxiway 601 and proceed to the area where Taxiway 601 and Taxiway 7 intersect and proceed to Arnold Ave, turn left onto Arnold Ave at which point the most direct route that minimizes exposure to personnel and property will be used. Below are the units with operations on the west side of the base and their location.

A3.3.1. The 89th Civil Engineer Squadron Disaster Preparedness/Patrick Avenue (Bldg 3516).

A3.3.2. The 89th Airlift Wing Operations and Airfield Management Division/Operations Drive (Bldg 1220).

A3.3.3. The 89th Airlift Wing Maintenance/C Street (Bldg 1280, Hangar 6).

A3.3.4. The 89th Airlift Wing Security Armory/Westover Drive (Bldg 1845).