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Safety

EXPLOSIVES SAFETY PROGRAM

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This regulation establishes responsibilities for mishap prevention involving explosives/ordnance systems, missile systems, and hazardous materials designated for airlift and is applicable to all assigned units and tenants with tasks involving such items.

SUMMARY OF REVISIONS

This revision is to make changes to publication identifiers and update redesignations of SPS TO SFS.

1. Explosive Safety Program. This program involves all explosives/ordnance systems regulated by Public Law and Department of Defense, to include weapons ranges, missile systems and nuclear systems, during handling, storage, transportation, use, and disposal. The Explosives Safety Function is also responsible for safety as it pertains to air transportation of hazardous materials and operations incidental thereto. Implementation of an effective explosives safety program must be equally shared by the host and tenant units and supported by all levels of management and supervision. Implementation of the program will be accomplished by:

- 1.1. Coordination between host and tenant representatives in explosives and hazardous materials operations.
- 1.2. Enforcement of and compliance with safety regulations, standards, and application of safety engineering principles.
- 1.3. Recurring inspections of explosives operations and facilities; investigating, reporting, and analyzing all mishaps.
- 1.4. Awareness, identification, and elimination of hazards; development, review, and dissemination of data required for preventive and corrective actions.
- 1.5. Use of technically qualified explosives personnel and proper equipment and operators.

- 1.6. Adequate training for appropriate personnel on a frequent and continuing basis.
- 1.7. Review of selected explosive safety items and potentially dangerous operations by the Charleston AFB Quarterly Wing Safety Council where and when consistent with best interests of safety.
- 1.8. Review and evaluation of surveys and visitation reports by higher headquarters.

2. Terms Explained. Terms generally used concerning explosives and other hazardous materials are outlined in AFMAN 91-201, Explosives Safety /Standards, Attachment 1, AFI 11-204, Operational Procedures for Aircraft Carrying Dangerous Materials; and AFMAN 24-204, Preparation of Hazardous Materials for Military Air Shipment.

- 2.1. Weapons Safety Manager. An individual qualified through specialized training and experience in all phases of explosives and related activities. AMC Directorate of Safety approval is required prior to filling this position. The Chief of Safety will forward eligible applications to AMC/SEW through 21 AF/SE prior to selection being made but after eligibility requirements have been determined by the Civilian Personnel Office.
- 2.2. Explosives Safety Inspection. Visits made to assigned, attached, and tenant units by the Weapons Safety Manager to make sure compliance with applicable directives and rules are being adhered to. Commanders will be informed of problem areas.
- 2.3. Discrepancy. Noncompliance with requirements in directives.

3. Responsibilities:

- 3.1. All units with a mission or function involving explosives/hazardous materials are responsible for execution of an explosives mishap prevention program. They will:
 - 3.1.1. Review and enforce mishap prevention and damage control techniques, procedures, and requirements.
 - 3.1.2. Make sure all matters pertaining to explosives and hazardous materials operations are coordinated with the Weapons Safety Manager.
 - 3.1.3. Make sure approved written procedures covering all recurring explosives operations are in a current status. Procedures will be reviewed at least annually. Development of written procedures will be IAW AFMAN 91-201/AMC SUP 1. CAFB Form 447, Explosives Local Written Procedures Coordination/Approval, will accompany each written explosives procedure.
 - 3.1.4. Make sure assigned personnel comply with AFI 91-1 and all supplements, technical orders, written procedures, or other applicable directives, and that deviations from safety standards are not permitted.
 - 3.1.5. Prepare AF Form 2047, Explosives Facility License, IAW AFMAN 91-201, for explosives locations and/or operations. AF Form 2047 will also be used for individual unit storage (except Munitions Flight) within the 900 and 2100 areas. A local control number will be assigned to each license.
 - 3.1.6. Use personnel qualified through training, experience, and/or education to make sure application of mishap prevention principles and safety standards are IAW AFI 91-202, The USAF Mishap Prevention Program, and AFMAN 91-201, for explosives operations.

3.1.7. Notify the Weapons Safety Manager as soon as reasonably possible after treatment/lifesaving in the event of a mishap or incident involving explosives, missiles, or hazardous cargo during handling, storage, or transportation. Munitions Flight (437 EMS/LGMW) will be notified when any explosives item/device issued by that organization fails to function as designated. Deployed units, i.e., Security Forces Squadron and Aerial Port Mobility Flight, will notify host safety function.

3.1.8. Make sure that assigned vehicles and equipment are operated and serviced IAW AFMAN 91-201 and/or Title 49 CFR for on and off base transport of explosives and other hazardous materials.

3.1.9. Transport explosives and other hazardous materials on base using entrances/exits and routes authorized by CAFBI 16-201, Procedures for Handling Aircraft/Vehicles Carrying Hazardous Materials, and outlined in the "Charleston AFB Traffic Flow Plan." During emergency responses, EOD may deviate from established routes.

3.1.10. Make sure all operators of vehicles and MHE transporting/handling explosives have been trained, tested, and licensed. Weapons Safety (SEW) will administer a test to determine adequacy of training. Upon successful completion of the Explosives Safety Test, SEW will overstamp AF Form 483 **EXPLOSIVES TRAINED**. Each unit will annotate on the AF Form 1098, Specific Tasking Certification and Recurring Training, for military personnel, or on the AF Form 971, Supervisor's Record of Employee, for civilian personnel to reflect training. Explosives driver testing is a one-time requirement, however, operators previously licensed by another base will require re-testing and licensing prior to the operation of an explosives laden vehicle or MHE on Charleston AFB, North Field, or as part of a deployed unit, i.e., ALCS. For active duty/Reserve personnel TDY to CAFB(not to exceed 30 days) the work center supervisor or additional duty explosives safety representative will give the personnel an in-depth safety briefing and ensure their AF Form 483 is current. Prior to operating any MHE/vehicle transporting explosives, if they are TDY to Charleston AFB more than 30 days, they will be tested.

3.1.11. Make sure that explosives (e.g. GBS, smoke) are discharged only in approved areas on Charleston AFB and North Auxiliary Airfield and that all residue (cartridge cases, boxes, and packing materials, etc.) are returned to Munitions Flight (LGMW). Prior to discharge of any explosives item the unit will coordinate with the Weapons Safety Manager.

3.1.12. Make sure only qualified personnel activate explosives during unit training or wing/command exercises. Training will be documented on AF Form 1098, AF Form 971, and AF Form 797, Job Qualification Standard Continuation, or other appropriate training record. All training plans will be approved by Wing Safety and all training plans for activating explosives will be coordinated/approved using CAFB Form 447.

3.1.13. Notify the Weapons Safety Manager of deficiencies to nuclear certified equipment listed in T.O. 00-110N-16 that may require Dull Sword reporting IAW AFI 91-204.

3.2. The following units will appoint in writing a unit explosives officer: Aerial Port Operations (TRO), Security Forces (SFS), Munitions Flight (LGMW), Det 1, 158 FW (ACC), Explosives Ordnance Disposal (EOD) and OSS. If a qualified officer is not available, a qualified NCO or civilian may be appointed. The duties of the unit explosives safety officer will include but not be limited to:

3.2.1. Upon appointment, receive explosives safety training and be briefed by the Wing Weapons Safety Manager on specific duties.

3.2.2. Make sure initial and annual explosives safety training is provided, as applicable. ISD 600247DF may be used, but training will also include specific explosives safety requirements relating to unit operations and develop checklists covering all explosives operations.

3.2.3. Performing periodic spot inspections, not to exceed two months, of unit explosives operations/facilities. Spot inspections will be documented in inspection log.

3.3. Supervisors are responsible for thoroughly instructing operating personnel in safe practices applicable to the operations that they will be performing and enforcing all safety requirements governing the activity.

3.4. If conflicting information cannot be internally resolved or where necessary to ensure safe, efficient, and successful explosives operations for mission accomplishment, tenant units must coordinate appropriate parent command directives on explosives/hazardous materials with the Weapons Safety Manager (SEW).

3.5. Civil Engineer Squadron (CES) will:

3.5.1. Make sure site plans and projects involving explosives operations are prepared IAW AFMAN 91-201, Chapter 8/AMC SUP 1. Complete site plans will be submitted to the Weapons Safety Manager for review and submitted through safety channels. Site plans historical documentation will be maintained according to AFMAN 37-139.

3.5.2. Coordinate with Weapons Safety Manager to ensure explosives facilities, quantity distance clear zones, and surface danger zones (for weapons firing ranges) are shown on Tabs C-1 and D-8 of basic mission plan and that information is current and all master reproducibles are current and complete.

3.5.3. Make sure AF Form 332, BCE Work Request, which is submitted by units, has been coordinated with the Weapons Safety Manager for the construction or repair of facilities within quantity distance clear zones, surface danger zone, or explosives training areas. Requests that have not been properly coordinated will be returned to the unit.

3.5.4. Make sure that the Fire Department:

3.5.4.1. Maintains current pre-fire plans and a base map showing all explosives locations IAW AFI 32-2001 Fire Protection Program.

3.5.4.2. Reviews and coordinates with the Weapons Safety Manager on all AF Forms 2047, Explosives Facility License, submitted.

3.5.4.3. Reviews and recommends approval of all written procedures submitted concerning explosives operations.

3.5.5. Coordinates any repairs or construction of the EOD Proficiency Training Range with the Weapons Safety Manager.

3.5.6. Air Base Operability (CEX) will establish and coordinate all plans for disaster control activities with the Weapons Safety Manager which involve explosives and other hazardous materials.

3.5.7. EOD will appoint in writing an explosives safety NCO. EOD will notify the Weapons Safety Office of activities involving the use of explosives.

3.6. Wing Plans will:

- 3.6.1. Coordinate with Wing Safety on all host-tenant (AFR 11-4) or inter service/interagency (DOD 4000.19M) agreements which involve explosives and other hazardous materials.
- 3.6.2. Coordinate with the Weapons Safety Manager on all plans, material deficiency reports, and programming actions involving explosives and other hazardous materials.
- 3.7. Logistics Group Commander will:
 - 3.7.1. Establish procedures for the Weapons Safety Manager to be notified by Munitions Flight in the event a critical defect is discovered during munitions inspections.
 - 3.7.2. Establish procedures for the Weapons Safety Manager to be notified by Munitions Flight of any base stock item that has been restricted or suspended IAW T.O. 11A-1-1.
 - 3.7.3. Establish procedures for the Weapons Safety Manager to be notified by Munitions Flight of any explosives/ammunition item reported by user as failing to function as intended. The Weapons Safety Manager will coordinate on all Cat I or Cat II Material Deficiency Reports (MDRs) submitted IAW T.O. 00-35D-54 for munitions items.
 - 3.7.4. Coordinate the construction or repair of facilities within the 900 area with the Weapons Safety manager when repair requires heat, flame, electrostatic producing equipment.
 - 3.7.5. Make sure Transportation (LGT) notifies the Weapons Safety Manager of deficiencies resulting in a Dull Sword/Cat I MDR or involving nuclear certified equipment listed in T.O. 00-110N-16. The Weapons Safety Manager will coordinate on all combined Dull Sword/Cat IMDR reports submitted IAW T.O. 00-35D-54.
 - 3.7.6. When explosives are being uploaded/downloaded on aircraft, fuel trucks will remain a minimum of 100 feet from the aircraft. Fuel trucks will not **HOOK UP** until after the explosives have cleared the aircraft.
- 3.8. Aerial Port Commander will:
 - 3.8.1. Comply with applicable traffic, transportation, and operations directives and notify the Weapons Safety Manager of any changes effecting operations as pertaining to explosives or other hazardous materials.
 - 3.8.2. Coordinate operating requirements with the Objective Wing Command Post (CP) and Base Operations (OSS/SSF) when aircraft loading/unloading/intransit activity involves explosives/hazardous materials as required by CAFBI 16-201.
 - 3.8.3. Coordinate all local action in support of special missions involving explosives/hazardous commodities with the Weapons Safety Manager when the Special Assignment Airlift Mission (SAAM) does not identify all specifics of the mission requirements.
 - 3.8.4. Route all appropriate correspondence related to explosives/hazardous materials safety to the Weapons Safety Manager and other wing agencies concerned for coordination and action deemed necessary.
 - 3.8.5. Complete, arrange for, and/or make distribution of packaging and handling deficiency reports IAW AFJMAN 23-215 Reporting of Item and Packaging Discrepancies, when explosives/hazardous materials are involved.
 - 3.8.6. Establish procedures for qualified personnel to inspect incoming/outgoing vehicles. Inspections of inbound explosives loaded vehicles will be performed at the suspect vehicle yard, located

just inside Gate #5 and must be completed prior to entering the main security gate of the 2100 area. Inspection criteria will be IAW DOD Standards.

3.8.7. Make sure proper procedures involving explosives are established to comply with AFR 75-25, Movement and Storage of Personal Property, and AFM 75-4, Logistic Over the Shore Operations in Overseas Areas, and to effect authorized disposition by US Customs of prohibited items (live ammunition, explosives, or items containing explosives).

3.8.8. Coordinate with loadmasters for aircraft loaded, or to be loaded, with explosives/ hazardous materials for compliance with AMCI 24-101, Transportation.

3.8.9. Submit information as necessary to maintain the Defense Supply Agency Handbook 4510.3, Terminal Facilities Guide, USAF, in a current status to accurately reflect the explosives capability of this base.

3.8.10. Make sure that the construction or repair of facilities within the 2100 area are coordinated with the Weapons Safety Manager.

3.8.11. When aircraft are being refueled/defueled, explosives loaded vehicles/MHE will stay a minimum of 100 feet from the aircraft.

3.9. Commander, Operations Group (OG/CC) will ensure the following: Airlift Squadrons will make sure aircrews are familiar with hazardous cargo procedures contained in AMCI 11-241, C-141 & C-17 Pilot/Crew Checklist, and with procedures for reporting hazardous cargo leaks/spills.

3.10. Chief, Airfield Manager (OSS/SSF) will:

3.10.1. Act as OPR for CAFBI 16-201 and develop contingency plans for a 100% overflow of explosives-loaded aircraft.

3.10.2. Make sure personnel performing actions involving explosives and other hazardous materials are familiar with:

3.10.2.1. Mission briefing and tower reporting.

3.10.2.2. Applicable portions of flight plans.

3.10.2.3. Procedures for parking aircraft with explosives or other hazardous materials and the notification of appropriate agencies IAW CAFBI 16-201.

3.10.2.4. Submit information as necessary to maintain the DOD Flight Information Publication (FLIP) En Route, IFR Supplements, pertaining to explosives capability of airfield.

3.11. The Security Forces Squadron (SFS) will:

3.11.1. Coordinate with the Weapons Safety Manager routes to be used by surface vehicles transporting explosives or other hazardous materials while on base and publish these routes in the "Charleston AFB Traffic Flow Plan."

3.11.2. Establish procedures to ensure surface carriers transporting explosives and other hazardous materials enter/exit Charleston AFB IAW CAFBI 16-201.

3.11.3. Provide complete, accurate, and current information to appropriate action agencies upon receipt of notice that a surface carrier with explosives/hazardous materials is at an unauthorized gate.

- 3.11.4. Check and coordinate with the Weapons Safety Manager on all AF Forms 2047, Explosives Facility License, submitted.
 - 3.11.5. Check and recommend approval of all written procedures submitted by their personnel concerning explosives operations.
 - 3.11.6. Inform the Weapons Safety Manager when contraband explosives are discovered on base IAW CAFBR 136-2, Storage and Disposal of Contraband Explosives.
 - 3.11.7. Coordinate the construction or repair of facilities on weapons firing ranges and air base ground defense (ABGD) explosives training areas with the Weapons Safety Manager.
- 3.12. Det 1, 158 FW (ACC) will notify the Weapons Safety Manager/Explosive Ordnance Disposal of any changes to aircraft armament requirements that may effect quantity distance.
- 3.13. Objective Wing Command Post (CP) will:
- 3.13.1. Obtain approval/disapproval for "event" waivers for flight line explosives operations IAW CAFBI 16-201.
 - 3.13.2. Make sure individuals are familiar with AFJMAN 24-204 and CAFBI 16-201 directives by CP personnel performing actions involving explosives/hazardous materials.
 - 3.13.2.1. Preparation, processing, and dispatch of complete information for explosives/hazardous cargo as required in the departure message IAW AFM 24-204.
 - 3.13.2.2. Procedures for parking aircraft loaded with explosives/hazardous cargo IAW CAFBI 16-201.
- 3.14. Weapons Safety Manager (SEW) will:
- 3.14.1. Act as the point of contact and authority on all matters pertaining to the clarification of rules and regulations involving explosives and on the transportation of hazardous materials and operations incidental thereto. The Weapons Safety Manager has review and disapproval authority for waiver/deviation requests involving explosives.
 - 3.14.2. Inform the Chief of Safety, Support Group Commander/Wing Commander, of repeat discrepancies involving explosives hazards affecting the wing mission.
 - 3.14.3. Inform unit commanders of discrepancies that may affect unit mission.
 - 3.14.4. Check and recommend approval of all operating instructions submitted concerning explosives.
 - 3.14.5. Do frequent visits to operations on CAFB involving explosives to make sure of compliance with safety rules. Written reports will be optional.
 - 3.14.6. Do an annual inspection of activities and operations involving explosives and other hazardous materials IAW AFI 91-202. Written reports will be prepared.
 - 3.14.7. Give explosives safety training upon request to additional duty safety officers.
 - 3.14.8. Check the OJT training of all units on CAFB for personnel involved in explosives/hazardous materials operations and recommend improvement or correction of discrepancies.

3.14.9. Check, coordinate, and recommend approval/disapproval for the Wing Commander on new site plans or modification of explosives facilities (or facilities not involving explosives which would be exposed to such hazards if not properly located).

3.14.10. Evaluate, check, and process requests for waivers, exemptions, and deviations to safety criteria and recommend approval/disapproval.

3.14.11. Maintain information on explosives safety inspections/visits conducted by higher headquarters and corrective actions proposed or taken.

3.14.12. Recommend approval/disapproval to proper authority for deviation from quantity-distance criteria for flight line explosives operations when caused by emergency conditions or operational necessity as outlined in CAFBI 16-201. Message notification of "event" waiver will be made to higher headquarters IAW AFMAN 91-201 as required.

3.14.13. Coordinate plans, policies, and publications involving explosives/hazardous materials.

3.14.14. Serve as a member on boards, committees, and councils and attend meetings/conferences when explosives safety is involved.

3.14.15. Ensure adequate training has been given by selected units to operators of vehicles and MHE authorized to handle explosives. Adequacy will be determined by Weapons Safety administering a 25 question examination and the operator answering at least 20 correctly.

3.14.16. Coordinate on Dull Sword/Cat I MDR messages concerning nuclear certified equipment.

3.14.17. Coordinate on hazardous cargo leaks/spills messages submitted IAW AFI 91-204 and AFMAN 24-204.

3.15. Correspondence/Messages. All activities will immediately advise the Weapons Safety Manager of classified correspondence/messages for which they are OPR relating to the handling, use, storage, and movement of explosives/hazardous materials on CAFB.

3.16. Interservice/Interagency Support. Other military services or federal agencies who recurrently (more than once a year) perform explosives operations to include storage/handling/transportation on Charleston AFB or at North Field will be required to implement a support agreement IAW DOD 4000.19M. This requirement will also apply to the use of the base firing range. All requests for one time or emergency use of Charleston AFB/North Field will be routed through the Weapons Safety Manager to the Support Group or Wing Commander as applicable. Base and Air Force tenant units who are requested to provide support by other military services or federal agencies will ensure required coordination is obtained prior to providing that support.

Forms Implemented: AF Forms 332, 797, 1098, 2047; CAFB Form 447.

References: DOD 4000.19M; AFR 11-4; AFR 55-14; AFR 71-4; AFI 24-501; AFI 91-204; AFMAN 91-201; AFMAN 37-139; AFM 75-4; AMCR 55-141; AMCI 24-101; CAFBI 55-4; CAFBI 125-1; CAFBI 136-1; T.O. 00-110N-16; T.O. 00-35D-54; T.O. 11A-1-1; T.O. 11A-3-33. AFI 32-2001; AFJMAN 23-215.

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