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Safety

**WEAPONS SAFETY
PROGRAM MANAGEMENT**

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This instruction implements AFD 91-2, Safety Program and together with corresponding Department of Defense (DoD), Air Force, PACAF, and 7 AF directives, establishes the Weapons, Explosives, Missile, Munitions Handling, Transportation, and Mishap Prevention Program for Osan AB. This instruction clarifies wing and unit responsibilities, establishes weapons safety program management, transportation, explosives loaded combat and cargo aircraft parking areas and storage locations for explosives. It applies to all activities and personnel assigned or attached to Osan AB.

DOD AMMUNITION AND EXPLOSIVES SAFETY

SUMMARY OF CHANGES

Deleted; Attachment Osan AB Explosive Site Plan Listing and added to the 51 FW/SEW web page. Added; alternate ADWSR in the grade of E-5 or above to para **1.3**. Deleted; reference to AFI 91-202, *The US Air Force Mishap Prevention Program*, para **1.4**. Deleted; guidance in para 1.8.4.1.1 – 1.8.4.1.13. Added; Reference to AFI 91-202, AFI 91-202/PACAFSUP1. Deleted; 1.10.1 – 1.10.8. covered in AFMAN 91-201, DoD 6044.9-STD, *DoD Ammunition and Explosives Safety*. Deleted; para 1.11.1-1.11.6 for munitions delivery routes Added D-8 map as reference for primary and alternate munitions routes. Deleted; reference to **Attachment 1** from para **1.13.1**. and added location for NEW/Site Plan chart. Added Flightline explosive placards will no longer be used IAW AFMAN 91-201, *Explosives Safety Standards* and procedures for notifying Maintenance Operation Center and the Fire Alarm Communication Center during explosive operations to para **1.13.2**. Added; Hardened Aircraft Shelter (HAS) door procedures to para **1.13.3**. Added; quick reference NEW chart location to para **1.15**. Added; requirement to notify Fire Alarm Communication Center when munitions are pre-positioned in HAS/GEN to para **2.1.9**. Deleted; para 2.2.2.1 - 2.2.2.10.5.1 Program management TAB descriptions. Added; maintain weapons safety management program utilizing 51 FW ADWSR Users Guide to para **2.2.2**. Clarified guidance in para **2.2.3**. Deleted; requirement for quarterly unit commander briefing from para **2.2.4**. Deleted; coordinate on all procurement actions concerning local purchase munitions and all contracting actions, which impact explosives facilities para **2.3.7**. Clarified guidance for annual review of D-8 map in para 2.3.14. **Certified**

Deleted; annually review/coordinate unit lesson plans involving explosives training para **2.3.12**. Deleted; para **2.3.13**. and para 2.3.14. covered in AFMAN 91-201. Deleted; NEW List **Attachment 1** from para 2.3.16. Added; explosive requirements to para 2.3.16. Clarified guidance in para **2.4**. Clarified guidance on training requirements in para **2.2.5.1**. Added; Procedures for notifying Fire Alarm Communication Center during explosive operations para 2.4.1.2.3. Deleted; See **Attachment 1** from para 2.5.4.1. Deleted; reference to Doolittle Gate from para **2.7.2.2**. Deleted; all references to fire department and added Fire Emergency Services Flight. Deleted; reference to Combat Arms Training and Maintenance para **2.8.3**. Deleted; 51 FW Form 7, Fire Symbol Log para 3. New or revised material is indicated by a bar (|).

1. Program Description

1.1. Weapon Safety Program Management. IAW AFI 91-202, *The US Air Force Mishap Prevention Program*, the Weapons Safety Program at Osan AB is comprised of two disciplines: explosives and missile safety.

1.1.1. The 51 FW weapons safety office is host and coordinates all weapons safety requirements for the base. All tenant units must align their safety programs with the 51 FW weapons safety office.

1.2. General Explosive Safety Standards. Air Force explosive safety standards are in AFMAN 91-201.

1.3. Additional Duty Weapons Safety Representative (ADWSR) Appointment. IAW AFI 91-202/PACAF Sup 1, Units that handle, maintain, store, install or remove missiles, explosives, chemical or nuclear weapons will appoint an ADWSR. Commanders will appoint in writing a primary, in the grade of E-5 or above and an alternate, in the grade of E-4 or above and send the letter to 51 FW/SEW. This letter, (**Attachment 2**) must contain individual's name/rank, office symbol, DEROS, duty phone, and email address. Subsequent replacements will be assigned NLT 30 days prior to current ADWSR PCS. Individuals selected must have at least nine months retainability and be knowledgeable in the mission and activities of the unit and be afforded adequate time and opportunity to perform duties. The weapons safety office must train ADWSRs within 30 days of being assigned ADWSR duties.

1.4. Explosives Safety Program. A comprehensive program developed to actively manage all aspects of safety, where all materials under the definition of explosives are involved. Implementation of an effective explosives safety program must be equally shared by the wing and tenant units and supported by all levels of management, supervision, and operation.

1.5. Missile Safety Program. Weapons safety program requirements are outlined in AFI 91-202, para. 10.6. and AFI91-202/PACAFSUP1, para 10.2.6.

1.5.1. Missile safety is the same as explosive safety in most aspects. However, some additional areas of concern must be included in lesson plans and tests. These are as follows:

1.5.1.1. Procedures for handling Air-to-Air missiles, drop criteria and hazards associated with.

1.5.1.2. Unique handling and transportation problem areas; e.g., trailer turning radius, tie down procedures, forklift operations, missile container movement etc.

1.5.1.3. Using qualified spotters during munitions movements; e.g., loading/unloading stacks of missiles/bombs on/off trailers and in/out of storage facilities.

1.6. Developing Explosive Operating Instructions. If technical orders or safety briefings cover all information listed in AFMAN 91-201, para 2.3 and 2.4, locally developed instructions are not required. However, ADWSRs must ensure locally written instructions are completed if applicable and signed by commander. These instructions will be maintained at the operating location. Coordinate all locally developed instructions through 51 FW/SEW prior to use and annually thereafter. Provide 51 FW/SEW an electronic copy of all unit OIs.

1.7. Explosive Facility License. Units requiring storage of ammunition and explosives to support a specific explosives operation or mission must obtain approval from the 51 FW weapons safety office. The safety office will prepare an example AF Form 2047, *Explosive Facility License*, IAW AFMAN 91-201, para 2.35, and the ADWSR will complete the coordination process. The license will require unit commander approval and coordination through Security Forces Squadron (Resource Protection), Base Civil Engineering Squadron (Fire Department) and Munitions Operations prior to weapons safety approving it.

1.7.1. Licensed storage locations of portable metal box-type (conex) construction located outdoors do not require lightning protection. However, licensed locations where unpackaged electrically initiated explosives (i.e. impulse cartridges) are handled will be equipped with a static bus bar to dissipate static electricity. Provide appropriate grounding and bonding in accordance with AFI 32-1065, *Grounding Systems*, Table 1, line 12b.

1.8. Explosive Safety Training. Host and tenant unit requirements listed AFMAN 91-201, para 2.2 will be managed by the appointed ADWSR or through a formal course. Additionally, Commanders will ensure the following:

1.8.1. Ensure unit personnel, whose duties involve handling, storage, functioning, transporting, or using explosives, are trained and qualified in the tasks performed. Training will be conducted initially upon assignment and annually thereafter.

1.8.2. Ensure unit personnel selected to operate explosives-loaded vehicles/materials handling equipment (forklifts, metro vans, K-loaders, flatbeds, etc.) receive explosives training and are tested on procedures for transporting explosives.

1.8.3. Ensure explosives safety training is actively managed and documented.

1.8.4. Ensure lesson plans/guides are developed by the unit, and are being used to conduct the required training. See AFI91-202 and AFI 91-202/PACAFSUP1, Ch 10.

1.8.5. Provide 51 FW/SEW an electronic copy of all unit explosive lesson plans and tests.

1.9. Local Purchase of Munitions. Local purchase of commercial explosives or munitions items is prohibited unless approved through the Commercial Off the Shelf (COTS) program. Contact the Munitions Flight (51 MXS/MXMW) for guidance.

1.10. Military Working Dog Program. Prior to conducting any Military Working Dog explosive training operation, K-9 section must contact the weapons safety office. Provisions of AFMAN 91-201, para 2.17, DoD 6055.9-STD, para C9.8 and AFJMAN 24-306, *Manual for the Wheeled Vehicle Driver*, will be adhered to while conducting these operations.

1.11. Explosive Movement Routes. All explosives ammunition or other hazardous material transported on Osan AB will use established routes. Deviations from established routes must be coordinated with wing weapons safety office, prior to their use and will avoid all key resources and facilities.

These routes do not apply to host or tenant munitions custody or consumption accounts or to base Security Forces explosives detection dog personnel conducting operational training. However, all routes traveled will be direct and will avoid heavily populated or congested base areas as much as possible. Except for emergencies, en route stops will not be made. Established movement routes for Osan AB are identified on the Base Explosive Map D-8. May be obtained from CE Drafting.

1.12. Inspection of Incoming Shipments. All incoming explosive loaded vehicles that did not originate from Osan AB, will be inspected at vehicle inspection points (J.R Morin gate) prior to further movement on base.

1.12.1. 51 LRS will inspect all commercial and military motor vehicles carrying explosives. Exception: Security Forces, 35th Air Defense Artillery (ADA) Brigade Patriot North Battalion, and Munitions Flight will perform their own vehicle inspections prior to further movement on base.

1.12.2. These agencies must produce an operating instruction covering transportation procedures for both on and off-base. Coordinate operating instructions through wing weapons safety prior to implementation.

1.12.3. The safety office and Fire Emergency Services Flight will be notified of any vehicle found or suspected to be in a hazardous condition.

1.13. Explosives-Loaded Aircraft Parking. Park explosives-loaded aircraft in accordance with AFI 11-218, Aircraft Operations and Movement on the Ground, AFI 21-101/51FW Sup 1, *Aerospace Equipment Maintenance Management* and 51 FWI 13-201, *Osan Air Base Airfield Operations Instruction*.

1.13.1. Primary parking, loading, and unloading areas for explosive loaded cargo and combat aircraft are listed on TAB D-8 of Civil Engineering Comprehensive Base Plan (map) per explosive site plans. Explosive site plans are maintained and on file by 51 FW/SEW. A quick reference (NEW Chart) is located on the 51FW Wing Safety, Community of Practice (CoP): <https://afkm.wpafb.af.mil/51FWSafety>.

1.13.2. Flightline area will not be placarded with class/division 1.1, 1.2.x, 1.3, or 1.4 IAW AFMAN 91-201, para 2.25.8.8. Weapons expeditors will notify Maintenance Operation Center (MOC) who will in turn notify the Fire Alarm Communication Center with; Aircraft tail number, parking location, class/division, governing symbol, quantity and type of explosives involved. If pre-positioning munitions for exercise or contingencies, notify MOC that munitions are located on floor. Emergency procedures will be IAW applicable Technical Order or Checklist.

1.13.3. Hardened Aircraft Shelter (HAS) door procedures. Net Explosive Weight (NEW) authorizations are valid at all times unless specifically stated otherwise. NEW is based on shelter doors remaining closed, except for towing, fueling, servicing, run-up, taxiing, CSOs, and short periods to move equipment and munitions. Reference AFMAN 91-201, T3.3., Note 12.

The following actions constitute servicing:

- HAS doors may be opened a minimum of 10 feet in conjunction with liquid oxygen or nitrogen servicing and weapons loading and unloading.

- Each leg of Alpha Diamond may be serviced at one time with doors open 10 feet for scheduled flyers. When servicing is complete on one leg, HAS doors must be closed before proceeding to next leg.
- When operating aerospace ground equipment on aircraft in HAS.
- When conducting aircraft maintenance engine runs.
- When a break in servicing or maintenance should occur, and no individuals are present, the doors must be closed within 30 minutes.
- Upon Pilot arrival for launch of aircraft and notification or aircraft landing.

1.14. Hung Ordnance and Jammed Gun Procedures. Follow guidance outlined in 51 FWI 21-112, *End of Runway/Explosive Loaded Aircraft, Hung Ordnance/Gun System Malfunction Procedures, and Hung Ordnance/Gun System Malfunction Impoundment*.

1.15. Authorized Munitions Storage Areas. Authorized munitions storage locations are listed on TAB D-8 of Civil Engineering Comprehensive Base Plan (map) per explosive site plans. Explosive site plans are maintained and on file by 51 FW/SEW. A quick reference (NEW Chart) is located on the Safety CoP: <https://afkm.wpafb.af.mil/51FWSafety>.

1.16. Safety Inspections. Safety inspections help identify hazards and measure compliance with safety program requirements outlined in AFI 91-301, *Air Force Occupational and Environmental Safety, Fire Protection, and Health (AFOSH) Program*. Through inspections, the wing safety staff helps the commander determine the condition of work areas, the safety of work practices, the degree of compliance with safety and health standards, and the degree of compliance with safety program requirements. To provide this assistance safety will use outlines as provided in AFI 91-202. The weapons safety staff will:

1.16.1. Inspect all explosive locations at least once a year, except as other wise directed.

1.16.2. Inspect all high-interest areas monthly by spot inspection and annually as part of the explosive location inspection.

1.16.3. Inspect all explosive locations periodically, through spot inspections.

1.16.4. Inspections will be either "prior-notice" or "no-notice." Inspections will be combined with other inspections to reduce the number of inspections a unit receives.

1.17. Electro-Magnetic Radiation (EMR)

1.17.1. All cellular telephones and two-way type radios **except** the Motorola Astros must be separated from Electro-Explosive Devices (EEDs) by at least 10 feet when transmitting.

1.17.2. Motorola Astros must be separated from EEDs by at least 4 inches when transmitting.

1.17.3. All units deploying to Osan AB that bring their own radios must contact 51 FW/SEW prior to using them to have an EMR analysis accomplished by 51 FW/CS.

1.18. Flak Vest/Chemical Warfare Defense Ensemble (CWDE)/Gore-Tex Wear Policy. Normally, clothing materials acceptable for flightline use are acceptable for handling munitions (TA 016). Cotton or cotton-synthetic blend materials are preferred. Materials of 100 percent polyester, nylon, rayon, silk, or wool are highly static producing. Wool socks, glove inserts, and caps as well as undergarments of synthetic fabrics are less of a hazard. Nylon garments should not be worn as an outer garment. Gor-

tex garments may be worn during explosive operations if there are no exposed explosives. Open or ruptured rounds constitute exposed explosives. Explosives in the All Up Round (AUR) configuration are NOT considered exposed explosives. Personnel, regardless of the type of clothing worn, can collect a charge of static electricity by being in contact with moving non-conductive substances, or coming in contact with a mass that has been previously charged. Therefore, personnel must be careful to discharge their static electrical potential or equalize it to that of the explosive item before it is handled. Particularly avoid directly touching electrical primer.

2. Specific Responsibilities.

2.1. Unit Commanders. All commanders having a mission or participating in functions involving explosives or the transportation of explosives are responsible for implementing a mishap/incident prevention program. Along with appointment of an ADWSR (See para 2.2.1.), they will:

2.1.1. Enforce safety standards and all mishap prevention procedures.

2.1.2. Maintain an open line of communication and coordination with the 51 FW weapons safety office on all directives, which involve explosives.

2.1.3. Assign only trained and qualified personnel to perform activities involving explosives or transportation of explosives.

2.1.4. Immediately notify the 51 FW weapons safety office and the Osan command post when mishaps occur involving explosives or transportation of explosives. Prompt notification will enable the 51 FW weapons safety office to advise responsible commanders of reporting requirements or other necessary actions.

2.1.5. Review all safety inspection findings in their areas of responsibility for lasting corrective actions and any necessary follow-up required as a result of the findings.

2.1.6. Provide a copy of all incoming and outgoing messages pertaining to explosives or hazardous materials transportation to 51 FW/SEW.

2.1.7. Review and certify the need to store minimal quantities of operational necessity explosives within the organization. Certification is accomplished via AF Form 2047, which is submitted to 51 FW/SEW for review and approval.

2.1.8. Initiate Product Quality Deficiency Reports (PQDR) for defective or malfunctioning explosives/components discovered during use, handling, or storage.

2.1.9. Ensure the MOC is notified of the following situations: (1) When each aircraft is loaded or unloaded with Class/Division 1.1, 1.2, 1.3, and 1.4 (in excess of 1,000 pounds gross weight) explosives, giving the aircraft tail number, parking location, and the type of explosives involved. (2) Prior to movement of explosives into or out of HASs or hardstands, as well as the projected destination. If pre-positioning munitions for exercise or contingencies notify MOC that munitions are located on floor.

2.1.10. Ensure all personnel comply with explosive safety standards for transporting of explosives or ammunition.

2.1.11. Ensure explosives operating instructions are available and if applicable, developed in accordance with AFMAN 91-201, para. 2.3 and 2.4.

2.1.12. Coordinate current or future explosive mission changes and needs with wing weapons safety.

2.2. Additional Duty Weapons Safety Representatives (ADWSR).

2.2.1. Unit Commanders will appoint an officer or NCO in the grade of E-5 (or above) or qualified civilian employee, and an alternate in the grade of E-4 (or above) to represent them in all matters affecting explosives or hazardous materials safety. Ideally, these individuals will be familiar with explosive operations; however, commanders may combine explosives, ground, and flight (if applicable) safety programs under a single representative. Appoint a replacement when current ADWSRs are within 30 days of PCS or sooner. (See [Attachment 2](#)).

2.2.1.1. Persons selected must have at least nine months retainability.

2.2.2. Maintain weapons safety management program utilizing 51 FW ADWSR Users Guide, and through the Safety CoP: <https://afkm.wpafb.af.mil/51FWSafety>.

2.2.3. Perform spot inspections at the rate of one per month per shift. Inspect areas such as explosive operating locations and storage facilities. Document spot inspections and corrective actions according to 51 FW ADWSR Users Guide.

2.2.4. Maintain explosive/weapons safety bulletin boards. Bulletin boards may be combined with other safety boards and should be located near operating locations, work centers, or break areas. Post the following items as a minimum:

2.2.4.1. Current 51 FW *Wing/Unit Weapons Safety Representatives Letter*

2.2.4.2. AF Forms 457, *USAK Hazard Report*.

2.2.4.3. Current Weapons Safety Communiqués and Newsletters

2.2.4.4. Safety Awareness Summaries (as required)

2.2.4.5. Any crosstell concerning squadron or unit related weapons safety information.

2.2.4.6. Current organizational command policy letters.

2.2.5. Develop lesson plans and tests in accordance with AFI 91-202/PACAFSUP1, Ch 10.

2.2.5.1. Contact 51 FW weapons safety office to arrange for training on their duties and responsibilities. Training must be accomplished no later than 30 days after appointment.

2.2.5.2. Act as their commander's representative on all matters affecting explosives or hazardous materials transportation safety.

2.2.5.3. Keep their commander informed of all inspection discrepancies, unsafe working conditions or practices, and other cross-tells that could affect the unit's explosives or hazardous materials transportation program.

2.2.5.4. Ensure all munitions devices used for training are activated only in approved areas on Osan AB and that all munitions residue (packing materials, empty munitions cases, boxes, items, etc.) are returned to the Munitions Flight, for inspection, certification, or reuse.

2.2.5.5. Report mishaps/incidents or deficiencies involving explosives to 51 FW weapons safety office through the Osan command post immediately.

2.3. 51 FW Weapons Safety Manager will:

2.3.1. Plan, coordinate, and direct the Wing Explosives, Range, and Hazardous Materials Transportation Safety Programs for all wing and tenant units on Osan AB.

2.3.2. Serve as a member on committees, boards, or councils and attend meetings, conferences or seminars, which address explosives or hazardous materials transportation safety.

2.3.3. Coordinate on all locally developed (wing/base) plans, publications, or policies concerning explosives and hazardous materials transportation safety.

2.3.4. Advise commanders of factors that would impact on their assigned mission as related to explosives transportation safety.

2.3.5. When emergency conditions or operational necessity dictates, advise the wing commander of his or her waiver authority and use of reduced quantity distance criteria IAW AFMAN 91-201 and AFI 91-202.

2.3.6. Review all civil engineer site or construction plans and work orders for consideration of explosives safety standards.

2.3.7. Coordinate on host-tenant or inter-service agreements, which indicate wing explosives safety support.

2.3.8. Investigate explosives/hazardous materials mishaps and function as the explosives safety member on safety investigation boards appointed IAW AFI 91-204, *Safety Investigations and Reports*.

2.3.9. Maintain information on higher headquarters or DoD Explosives Safety Board Inspections or Surveys to include all findings and corrective actions taken.

2.3.10. Train unit ADWSRs.

2.3.11. Approve/disapprove requests for and ensure compliance with explosives facility-licensing.

2.3.12. Provide updates to this operating instruction.

2.3.13. Review the reception working group (RWG) requests to verify if deploying units are bringing radios and/or explosives. See para [1.17.3](#).

2.4. 51 FW Command Center (OC). The command center will make weather notifications as outlined in 51FWI 15-101, *Weather Support Instruction*, Table A6.5, Osan Command Center Primary Weather Notifications Matrix.

2.5. Maintenance Operations Center (MOC) will coordinate with wing weapons safety on maintenance functions that have an involvement with or impact on munitions or hazardous cargo loads, as well as the following:

2.5.1. Prior to authorizing non-combat aircraft, e.g. U2, C21, on the engine test pad (near the fire training pit), ensure all Hazard Class/Division (HC/D) 1.1 and 1.2.1 munitions have been removed from HASs A16 and A18. Establish a checklist which will ensure notification of all required agencies to preclude violations of explosive safety standards.

2.5.2. Ensure the MOC is notified of the following situations:

2.5.2.1. When each aircraft is loaded or unloaded with HC/D 1.1, 1.2.X, 1.3, or 1.4 explosives, and provided MOC the following:

2.5.2.2. Aircraft tail number.

2.5.2.3. Parking location.

2.5.2.4. Quantity and type of explosives involved.

2.5.2.5. Prior to movement of explosives into or out of HASs or hardstands, as well as the projected destination.

2.5.2.6. MOC will notify the Fire Alarm Communication Center and provide them with the above information.

2.6. 51st Operations Group.

2.6.1. Commander. Coordinate with the wing weapons safety for current or future explosive mission changes and needs.

2.6.2. 51 OSS/Weather Flight. Notify the 51 FW/CP upon receipt of a Lightning Watch/Warning.

2.6.3. 51 OSS/Standardization and Evaluation. Advise and coordinate with 51 FW weapons safety office on all operational plans, special plans, mobility or deployment tasking involving explosives and explosives-laden and combat aircraft parking.

2.6.4. 51 OSS/Airfield Manager will:

2.6.4.1. Ensure explosive loaded cargo or combat aircraft are parked on designated explosive sited locations. Contact safety office with any concerns for parking explosive loaded aircraft.

2.6.4.2. Coordinate with the Osan command post when aircraft loaded with explosives arriving or departing Osan AB.

2.6.4.3. Ensure hazardous cargo or combat-loaded aircraft grounding points are available at all parking locations.

2.6.4.4. Provide advance notification and aircraft parking location to Transient Alert.

2.7. 51st Maintenance Group.

2.7.1. Commander. Coordinate with the wing weapons safety for current or future explosive mission changes and needs.

2.7.2. 51 MXS/Munitions Flight will:

2.7.2.1. Coordinate PQDRs and AFTO Forms 22, *Technical Manual (TM) Change Recommendation and Reply*, and Reply regarding explosives and munitions with the 51 FW weapons safety office and Quality Assurance.

2.7.2.2. Ensure information on restricted, suspended, and released explosives and ammunition lot numbers is distributed to all affected host or tenant units.

2.7.2.3. Ensure proper facilities are available and used for ammunition or explosives receipt, issue, storage, and inspection.

2.7.2.4. Upon request, provide the 51 FW weapons safety office a copy of all authorized ammunition inspection and certification personnel.

2.7.2.5. Ensure all custody or supply point accounts comply with established safety standards for transportation of explosives or ammunition prior to issue transactions. Standards include

proper fire symbols on vehicles, ammunition and explosives compatibility, fire extinguishers, and any other applicable safety standards.

2.7.2.6. Establish procedures for the local purchase of commercial explosives in accordance with AFI 21-202, *Conventional Munitions Maintenance Management*, and coordinate with the 51 FW weapons safety office.

2.7.3. 51 MXS/Transient Alert will:

2.7.3.1. Ensure personnel are trained to identify and comprehend the hazard potential involving parking and ground handling of explosives-laden cargo and transiting combat aircraft.

2.7.3.2. Provide aircraft grounding, chocks, and fire extinguisher(s) for aircraft transiting Osan AB.

2.8. 51st Mission Support Group.

2.8.1. Commander. Coordinate with 51 FW weapons safety for current or future explosive mission changes and needs.

2.8.2. 51 Security Forces Squadron will:

2.8.2.1. Provide authorized entrance/exit and escort of surface carriers transporting explosives/dangerous materials on Osan AB to ensure approved routing to proper destinations.

2.8.2.2. Ensure surface carriers loaded with explosives or other hazardous materials enter or exit Osan AB via the J.R Morin Gate.

2.8.2.3. Notify Surface Freight, Fire Emergency Services Flight, Munitions Control, and 51FW weapons safety office personnel when explosive-loaded vehicles arrive at Osan AB (except OSAN AB units).

2.8.2.4. Coordinate all tactical or training exercises involving explosives with wing weapons safety.

2.8.2.5. Coordinate all AF Forms 2047 for compliance with resource protection standards.

2.8.2.6. Ensure explosives dog handlers coordinate with the Fire Emergency Services Flight and wing weapons safety prior to conducting bomb dog training.

2.8.3. Civil Engineer Squadron will:

2.8.3.1. Ensure the Fire Emergency Services Flight maintains a base map or computerized display that identifies all base explosive storage locations and their applicable fire and chemical hazard symbols, to include all licensed locations.

2.8.3.2. Ensure the Fire Emergency Services Flight maintains current pre-fire plans in accordance with AFI 32-2001, *The Fire Protection Operations and Fire Prevention Program*.

2.8.3.3. Ensure the dispatcher's log identifies fire and chemical hazard symbol changes to explosives locations, notification of inbound or outbound and transiting hazardous cargo, combat-configured aircraft, inbound hazardous cargo-loaded vehicles, and bomb detector dog training.

2.8.3.4. Ensure Fire Emergency Services Flight coordinates on all requests to weld, cut, or otherwise use flame-producing equipment around explosives or munitions stocks. Coordinate and maintain copies of all AF Forms 2047.

2.8.3.5. Coordinate with 51 FW weapons safety office during update of master plan drawings to ensure explosives quantity distance criteria is complete and accurate for all existing or proposed facilities within explosive clear zones. Quantity distance zones will not be included for proposed facilities until USAF site plan approval has been received.

2.8.3.6. Coordinate all AF Forms 332, Base Civil Engineer Work Request, AF Forms 103, *Base Civil Engineering Work Clearance Request*, and DD Forms 1391, *FY-Military Construction Project Data*, that fall within explosive clear zones with wing weapons safety.

2.8.3.7. Ensure the Civil Engineering Exterior Electrical Shop maintains on file a record of all ohm meter readings for each test point tested in munitions storage areas (e.g. Osan Magnum, Alpha Site, Delta Site, and Preload Area). Written reports reflecting actual meter readings will be provided to the facility or area custodian for all lightning protection and static ground test points.

2.8.3.8. Maintain streets and roads used as primary and alternate explosive routes and roads within the munitions storage areas. Roads must be smooth and meet all-weather use standards.

2.8.3.9. Coordinate all tactical or training exercises involving explosives with the 51 FW weapons safety office to ensure compliance with established safety standards.

2.8.3.10. Ensure the mapping section works closely with wing weapons safety to provide necessary maps for explosive site plans.

2.8.4. 51st Communications Squadron will:

2.8.4.1. Provide a listing of all on-base RF transmitters to the weapons safety office annually. This listing will include the location of each transmitter, frequency (MHz), output wattage, and antenna gain (db).

2.8.5. 51st Logistics Readiness Squadron will:

2.8.5.1. Coordinate terminal facility guide changes regarding explosives capabilities with the 51 FW weapons safety office.

2.8.5.2. Coordinate with the Osan command post when aircraft or vehicles loaded with non-nuclear munitions are arriving or departing Osan AB.

2.8.5.3. Ensure airfreight procedures have been developed for handling military or contract hazardous materials air shipments.

2.8.5.4. Coordinate operating requirements with Osan Command Post when aircraft loading and unloading activities involve explosives or hazardous materials.

2.8.5.5. Ensure vehicle inspections for all explosives and hazardous materials-loaded vehicles, arriving or departing Osan AB are conducted in accordance with AFMAN 91-201 and DoD 4500.9R, *Defense Transportation Regulation*, part II, chapter 204, para I.

2.8.5.6. Provide guidance to all agencies concerning compliance with Department of Transportation and DoD hazardous material placarding, labeling, packing, and shipping regulations.

2.8.5.7. Complete and distribute packaging and handling deficiency reports, in accordance with AFJMAN 23-215, *Reporting of Supply Discrepancies*, when explosives or other hazardous materials are involved.

2.8.6. 731st Air Mobility Squadron (731 AMS) will:

2.8.6.1. Coordinate with all appropriate base agencies on inbound or outbound explosives-loaded cargo aircraft.

2.8.6.1.1. Provide munitions placarding support for explosives-loaded cargo aircraft transiting Osan AB.

2.8.6.2. Ensure personnel are trained to prepare, process, and dispatch explosives and hazardous cargo departure messages.

JON A. NORMAN, Colonel, USAF
Commander

Attachment 1

EXPLOSIVE WEIGHTS OF COMMONLY USED MUNITIONS

CLASS/DIVISION	NEW	
20 MM HEI	1.2.2 E	.0285
20 MM TP/TPT	1.4 C	.0891
20 MM API	1.4 G	.0954
30 MM HEI	1.2.2 E	.4335
30 MM TP	1.4C	.3310
30 MM API	1.4C	.3419
AGM 65A	1.1 E	85.0
AGM 65B	1.1 E	85.0
AGM 65D	1.1 E	85.0
AGM 65G	1.1 E	100.0
AGM 88 (IN CONTAINER)	1.2.1 E	45.2
AGM 88 (OUT OF CONTAINER)	(04) 1.1 E	45.2
AIM 120 (IN CONTAINER)	1.2.1 E	16.9
AIM 120 (OUT OF CONTAINER)	(05) 1.1 E	16.9
AIM 9P	(04) 1.1 E	10.5
AIM 9L	(04) 1.1 E	7.4
AIM-9M	(04) 1.1 E	7.4
AIM 7F	(07) 1.1 E	26.1
CBU-58/B	1.2.1 D	158.0
CBU-87	1.1 D	129.0
CBU-89 SERIES	1.1 D	116.1
MK 82	1.1 D	192.0
MK 84	1.1 D	945.0
BLU 109	1.1 D	535.0
ROCKETS 2.75 WARHEAD (TP)	1.3 C 6.4 X 7 = 44.8	44.8
ROCKETS 2.75 WARHEAD (WP)	1.2.1 H 8.6 X7 = 60.2	60.2
CHAFF W/SQUIB	1.4 S	.0004
FLARE LUU-2A/B	1.3 G 22.0 X 8 = 176	176
FLARE M206	1.3 G	.2866
FLARE MJU-7	1.3 G	.6278

Attachment 2

**ADDITIONAL DUTY WEAPONS SAFETY MANAGER APPOINTMENT LETTER
TEMPLATE**



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 51ST FIGHTER WING (PACAF)
UNIT 2067
APO AP 96278-2067

Date

MEMORANDUM FOR 51 FW/SEW

FROM: YOUR UNIT

SUBJECT: Appointment of Additional Duty Weapons Safety Representatives

1. The following individuals are appointed Additional Duty Weapons Safety Representatives for YOUR UNIT:

<u>RANK/NAME</u>	<u>POSITION</u>	<u>OFF SYMBOL</u>	<u>DEROS</u>	<u>DUTY PHONE</u>
Primary				784-XXXX
Alternate				784-XXXX

2. This letter supersedes all others, same subject.

YOUR COMMANDER, USAF, RANK
Commander