

**BY ORDER OF THE COMMANDER
KADENA AIR BASE (PACAF)**



AIR FORCE MANUAL 91-201

**PACIFIC AIR COMMAND
Supplement**

**KADENA AIR BASE
Supplement**

6 JUNE 2013

Safety

EXPLOSIVES SAFETY STANDARDS

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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RELEASABILITY: There are no releasability restrictions on this publication

OPR: 18 WG/SEW

Certified by: 18 WG/SE
(Lt Col Robert J. Reed)

Pages: 6

Supersedes: AFMAN91-201_18WGSUP,
24 January 2007

AFMAN 91-201, *Explosives Safety Standards*, 12 January 2011 (incorporating Interim Change 1, 22 June 2012), and PACAFSUP, 10 November 2011, are supplemented as follows: This publication applies to USAF, USA, USN, USMC, and other organizations handling explosives on Kadena Air Base. This publication does not apply to the Air National Guard or US Air Force Reserve. It is a standalone publication and must be read in conjunction with AFMAN91-201 and PACAFSUP. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; route AF Forms 847 from the field through the appropriate functional chain of command. Requests for waivers must be submitted through chain of command to the OPR listed above for consideration and approval. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with (IAW) Air Force Manual (AFMAN) 33-363, *Management of Records*, and disposed of IAW Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS).

SUMMARY OF CHANGES

This document has been substantially revised and must be completely reviewed. Major changes include incorporation of updated compensatory measures for Explosive Ordnance Disposal range and combat aircraft parking areas; clarifies required distances when refueling aircraft on parking spots L11 thru L13; updates procedures for Navy explosive operations on Taxiway Delta and identifies requirements for loading weapons on alert P-3 aircraft.

1.3.5.1. **(Added)** The 18th Wing Commander has approved the following compensatory measures. These compensatory measures eliminate or reduce the potential for personal injury in addition to preventing a violation to explosive safety standards. These compensatory measures are mandatory and apply to hazard class/division (HC/D) 1.1 operations.

1.3.5.1.1. **(Added)** Explosives Ordnance Disposal (EOD) will advise 18 MUNS when disposal operations will be conducted at 49011. Clear zones will be strictly enforced during operations. The range safety officer will ensure all nonessential personnel and outside munitions not being used for the detonation have been removed from the clear zone. Entrance gates will be monitored and incoming nonessential personnel will be advised of areas that are off-limits.

1.3.5.1.1.1. **(Added)** Facility 42636 will be cleared of munitions when the explosives involved in the open air intentional detonation is expected to exceed 9 lbs of non-fragmenting munitions.

1.3.5.1.1.2. **(Added)** Facility 42635 will be cleared of munitions when the explosives involved in the open air intentional detonation is expected to exceed 31 lbs of non-fragmenting munitions.

1.3.5.1.1.3. **(Added)** Facility 42648 will be cleared of munitions when the explosives involved in the open air intentional detonation is expected to exceed 37lbs of non-fragmenting munitions.

1.3.5.1.1.4. **(Added)** Facility 42649 will be cleared of munitions when the explosives involved in the open air intentional detonation is expected to exceed 48 lbs of non-fragmenting munitions.

1.3.5.1.1.5. **(Added)** When holding pads 49011A, 49011C, and 49011D are used, the disposal range will be restricted to training use only.

1.3.5.1.2. **(Added)** Restrict access to the tower in Bldg 3579 to mission essential personnel. If possible, evacuate the tower of mission essential personnel during explosive operations at Taxiway Delta. Before non-mission essential personnel enter the tower, ensure that Taxiway Delta is free of explosives.

1.3.5.1.3. **(Added)** Refueling aircraft parking on spots L11 thru L13 require Inhabited Building Distance separation from explosive locations. This is only a violation when explosive operations involving HC/D 1.1 or more than 400 lbs of HC/D 1.2.1 are taking place on Taxiway Delta. Prior to starting explosive operations involving HC/D 1.1 or more than 400 lbs of HC/D 1.2.1 at Taxiway Delta, Airfield Management Operations will contact 718 AMXS/MXAWP at 634-6267/8 and ensure that no aircraft are parked at Spots L11 thru L13. Air Force aircraft will not use this Combat Aircraft Parking Area (CAPA). Navy (CFAO) weapons safety will coordinate for their explosive operations. Marine Wing Liaison Kadena (MWLK) will coordinate for all TDY or TAD Marine/Navy and MWLK explosive operations. The primary location to load weapons on alert P-3 aircraft is Taxiway Delta and the alternate locations are HS 111, HS 113, HS 115, and HS 117 & HS 119. The on-call P-3 unit will send an informational e-mail of what munitions were loaded to 18WGSEW@kadena.af.mil no later than 24 hours after the alert mission. Additionally, Airfield Management Operations must be notified at 634-3118/2494 by

the on-call P-3 unit of their intent to use Taxiway Delta North as soon as possible to ensure the appropriate safety NOTAM is disseminated closing the taxiway.

1.3.5.1.4. **(Added)** Facility 46806 (Trailer Maintenance Shop) will be evacuated when the HD 1.1 limit at FMHA 46001 exceeds 5,670 lbs.

1.3.5.1.5. **(Added)** In the event an explosive operation at facility 46803 exceeds 3,048 lbs of HC/D 1.1, all explosive operations in facility 46805 will cease and all personnel will evacuate beyond the appropriate intraline distance.

1.3.5.2. **(Added)** Once munitions are requested, Munitions Control will make notifications to Maintenance Operations Center (MOC) whenever live combat missile loads are delivered to any CAPA.

1.3.5.3. **(Added)** To ensure compliance with CAPA, Holding Area and Hardened Aircraft Shelter (HAS) site plans, the following compensatory measures must be adhered to. Unrelated personnel (personnel who do not provide essential daily and direct support to the CAPAs, Holding Area's or HAS) in facilities 728, 729, 730, 733, 762, 763, 764, 766, 775, Hangar 1 (Bldg 781), Hangar 2 (Bldg 780), Hanger 3 (Bldg 762) and Aero Club parking pads 401/402 must be evacuated whenever a loading activity involving a complete standard conventional load begins or the aircraft is actually loaded at the following locations:

1.3.5.3.1. **(Added)** CAPA spots 1-7, HAS 2-8, 10 (unrelated personnel at Bldg 728)

1.3.5.3.2. **(Added)** HAS 1-8 (unrelated personnel at Bldg 729)

1.3.5.3.3. **(Added)** CAPA spots 1-5, HAS 1-8, 10 (unrelated personnel at Bldg 730)

1.3.5.3.4. **(Added)** CAPA spots 5-11, HAS 1-8 (unrelated personnel at Bldg 733)

1.3.5.3.5. **(Added)** CAPA spots 11-20, HAS 1-7 (unrelated personnel at Bldg 762).

1.3.5.3.6. **(Added)** CAPA spots 18-24, HAS 1-5 (unrelated personnel at Bldg 766).

1.3.5.3.7. **(Added)** CAPA spots 31-41 (unrelated personnel at Bldg 763).

1.3.5.3.8. **(Added)** CAPA spots 36-46 (unrelated personnel at Bldg 764).

1.3.5.3.9. **(Added)** CAPA spots 37-50 (unrelated personnel at Bldg 780, 781).

1.3.5.3.10. **(Added)** CAPA spots 45-50 (evacuate Aero Club personnel from pads 401/402).

1.3.5.4. **(Added)** When explosive operations at Taxiway Bravo South exceeds 18,000 lbs HC/D 1.1 or maximum credible event (MCE) exceeds 375 lbs the Air Terminal Operations Center (ATOC) will notify MWLK and 18 LRS representatives at building 3473. Unrelated personnel (individuals who do not provide direct support to the explosive cargo parking area) will be removed from the cargo processing pad and directed to remain indoors at building 3473 or evacuate the area. Use of airfield explosive cargo storage or parking areas will be coordinated and approved IAW Kadena Air Base Instruction (KABI) 13-204, *Airfield Operations Instruction*, Paragraph 2.7 Aircraft Parking Plan.

3.12.5. **(Added)** Storing of Japan Air Self-Defense Forces munitions will comply with AFMAN 91-201 to every extent possible.

7.6.3. **(Added)** Every effort must be made to deliver munitions to an aircraft awaiting upload as close to the loading time as possible. In the event the aircraft cannot be loaded, munitions will

be returned to MSA or HS 333 holding area. Senior munitions managers and squadron weapons flight line expeditors will make every effort to ensure staging times are kept to a minimum prior to loading. Remove munitions from the flight line as soon as possible after downloading. Ensure the following guidelines for munitions delivery to the flight line are followed:

7.6.3.1. **(Added)** Munitions control will notify MOC of all munitions deliveries to the flight line. Weapons flight line expeditors (all services) will help track the total net explosive weight (NEW) at each fighter aircraft parking location. Weapons flight line expeditors will notify MOC of any change in location of loaded aircraft. The total NEW will not exceed the maximum allowable for that site (see current D-8 Map & NEW spreadsheet). Posting of Wing Weapons Safety generated baseline list is acceptable within each structure that explosives are stored, maintained, inspected or handled until site plan replaces baseline listing for that building.

7.6.3.2. **(Added)** 18 MUNS personnel delivering explosive cargo will notify Munitions Control, who in-turn will notify MOC, when munitions are placed at aircraft parking locations. Ensure NEW limits are not exceeded prior to delivery.

7.6.3.3. **(Added)** 733 AMS personnel will track NEW after initial delivery and notify the Air Terminal Operations Center when explosive cargo NEW status changes. Follow the guidelines on the current D-8 map.

7.26.7. **(Added)** Simulator munitions training must include a supervised hands-on evaluation following approved classroom academic instruction. 18 CES/EOD will certify individuals assigned to other units as trainers for smoke-producing simulator munitions only. 18 CES/EOD and the unit will maintain training documentation of EOD-certified trainers. The unit will maintain a list of persons trained by EOD-certified trainers. All persons trained to initiate simulator munitions, including EOD-certified trainers, will receive an AF IMT 483, *Certificate of Competency*, listing qualified munitions. A current AF IMT 483 is required before receiving, handling or initiating simulator munitions.

8.12.1. **(Added)** Primary and alternate on-base explosive movement routes are identified on the Base Comprehensive Plan, Tab D-8. With the exception of Tengan Pier operations, explosive-laden vehicles entering Kadena AB will use Highway 74 and enter the base via Gate 19.

8.26.3.1. **(Added)** Placarding HD 1.4 material on base is not required.

9.20.5. **(Added)** Weapons Safety must conduct an EMR hazard analysis on all permanent or temporary ground-based RF transmitters for potential hazards to explosives operations, transportation routes, or storage locations. The 18 CS and Installation Spectrum Manager (ISM) will provide a listing of all on-base RF transmitters to Weapons Safety annually. This listing will include:

9.20.5.1. **(Added)** Location of each RF Transmitter.

9.20.5.2. **(Added)** Frequency Range.

9.20.5.3. **(Added)** Output Wattage.

9.20.5.4. **(Added)** Antenna Gain.

9.20.5.5. **(Added)** Antenna Height.

10.7.8.5. **(Added)** Flight line sited locations (e.g., hardstands, Taxiway Bravo/Delta, HAS) require fire symbol posting as applicable. Weapons load crews are responsible for posting and removing fire symbols at locations where combat aircraft are loaded/unloaded with explosives.

10.8.8.1. **(Added)** Buildings 805 and 806 (CAPA Spots 1-50) are additional exceptions to posting fire symbols. Munitions Line Delivery will contact Munitions Control whenever HC/D 1.1 and 1.2 munitions are delivered to or removed from CAPAs 805 and 806 (Spots 1-50). Munitions Control will notify MOC who will in turn make fire symbol change notifications to the ECC.

10.8.8.2. **(Added)** Blanket clearances for flight line explosive activities are not to be used in lieu of reporting fire symbol status to the MOC. Blanket clearances are authorized for munitions delivery vehicles from 18 MUNS area to flight line and return, as long as Munitions Control is tracking and is aware of munitions delivery vehicle movements.

12.77.5. **(Added)** 18 WG/SEW will be notified prior to conducting off-range operations using tools and explosives listed in Paragraph 12.77.4 of the basic manual.

MATTHEW H. MOLLOY, Brigadier General, USAF
Commander

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

AFMAN 91-201, *Explosives Safety Standard*, 12 January 2011, incorporating Interim Change 1, 22 June 2012

AFMAN 91-201, PACAF Supplement, *Explosives Safety Standard*, 10 November 2011

KABI 13-204, *Airfield Operations Instruction*, 19 June 2012

Adopted Forms

AF Form 847, *Recommendation for Change of Publication*

AF IMT 483, *Certificate of Competency*