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#### **UNITED STATES MARINE CORPS**

MARINE AIR GROUND TASK FORCE TRAINING COMMAND MARINE CORPS AIR GROUND COMBAT CENTER BOX 788100

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Encl: (1) Class V Materiel Manual

- 1. In accordance with the references, the Explosives Safety Officer is responsible for ensuring the Commanding General's Explosives Safety Management Program, is in compliance with all applicable orders and regulations.
- 2. Enclosure (1) clarifies and establishes procedures for Class V materiel aboard the Combat Center.

3. The Class V manual will be reviewed annually to ensure compliance with higher-level directives

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# LOCATOR SHEET

Subj:	CLASS	V	MATERI	EL N	ANUAL								
Locatio	n:												
	(	In	dicate	the	locatio	on(s)	of	the	copy(ies)	of	this	Order	.)

# RECORD OF CHANGES

Log completed change action as indicated.

Change number	Date of Change	Date Entered	Signature of Person Incorporated Change
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#### CHAPTER 1

#### SCOPE OF RESPONSE

#### 1. General

- a. The Center Magazine Area (CMA) is located 4.5 miles from the Main Gate on Del Valle Road. This is a level-2 restricted area and only authorized personnel are admitted.
- b. The CMA is a branch within Installation Support Division, Center Logistics Division, Marine Air Ground Task Force Training Command, Marine Air Ground Combat Center (MAGTFTC, MCAGCC), Twentynine Palms, California. The CMA is used for the storage of both Class  $V(\mathbb{W})$  (ground) and Class  $V(\mathbb{A})$  (aviation) munitions.
- c. Responsible Officer. The Officer-in-Charge (OIC) of the CMA is the Responsible Officer for munitions stored within the CMA and all incoming and outgoing shipments. The OIC will advise the Commanding General of matters pertaining to munitions aboard the Combat Center.
- d. <u>Aviation Ground Support Detachment (AGSD)</u>. The AGSD, which is part of the Exercise Support Division, G-3/6/7, will be the point of contact within the Strategic Expeditionary Landing Field (SELF) and Ammunition Issue Point (AIP).
- e. Explosive Ordnance Disposal Unit (EOD). The EOD is a branch within the G-3/5/7 governed by reference (a). This unit provides the capability to neutralize hazards from incidents, which are beyond the capabilities of other specialties and present a threat to operation, installation, personnel, or materiel.
- f. Explosives Safety Officer (ESO). The ESO, located within the Safety Office, Mission Assurance Division, Installation Support Directorate, will be designated in writing and will be responsible for the management of the Explosives Safety Program aboard the Combat Center. The ESO will advise the Commanding General on matters pertaining to explosive safety aboard the Combat Center. The ESO will specifically be responsible for ensuring compliance with pertinent references and keeping all parties abreast of changes to order and regulations.

# 2. Mission

- a. The CMA is responsible for the requisition, receipt, storage, and issue of munitions required for use aboard the Combat Center.
- b. In addition, the CMA is responsible for the following specific functions:
- (1) Safe munitions storage and handling practices by complying with current directives.
  - (2) Accountability and inventory management of on-hand munitions.
- (3) Internal security of the CMA, in coordination with the Combat Center Provost Marshal's Office (PMO).
- (4) Qualification/Certification of all military and civilian personnel that handle ammunition aboard the Combat Center, except for EOD and tenant units.

- c. Marksmanship Training Unit (MTU). The MTU, which is part of the G-3/5/7, is responsible for providing rifle/pistol range areas for Marines aboard the Combat Center to develop marksmanship proficiency. The MTU is responsible for storage, handling, security, and accountability for small arms, hazard class/division 1.4 materiel aboard the Combat Center Rifle Range. Reference (b) governs ammunition and explosives operations at MTU's rifle/pistol range.
- d. <u>Blasting Quarry</u>. An Inter-Service Support Agreement between the Combat Center and Naval Construction Training Center (NAVCONSTRCEN) Port Hueneme, California established the area between MTU and BEARMAT Hill as the Blasting Quarry. The Blasting Quarry is used to provide readiness training to Naval Construction Force (NCF) units. NAVCONSTRCEN personnel are responsible for the safe storage and handling of explosives they use while aboard MCAGCC. Operations and other ordnance practices are addressed in their SOP.
- e. Aviation Combat Element (ACE). The ACE units that are temporarily stationed at the AIP and SELF are responsible for requisitioning, receipt, storage, and issue of Class V(A) munitions required for use during the Service Level Training Exercise (SLTE) aboard the Combat Center. In addition, the ACE units providing aviation ordnance operations are responsible for the following specific functions:
- (1) Safe munitions storage and handling practices will be accomplished in accordance with SELF SOP, current directives, current Site Approval documentation, and Combat Center Orders.
  - (2) Accountability and inventory management of on-hand munitions.
  - (3) Internal security of the AIP area.
- f. <u>Combat Logistics Element (LCE)</u>. Training Combat Logistics units that are temporarily stationed at the Gypsum Ridge FASP, Camp Wilson are responsible for receipt and storage of munitions required for use during Service Level Training Exercise (SLTE) aboard the Combat Center. In addition, the Combat Logistics Battalions (CLB) providing ammunition support operations is responsible for the following specific functions:
- (1) Safe munitions storage and handling practices will be accomplished per unit SOPs, and current directives and Combat Center Orders.
  - (2) Accountability and inventory management of on-hand munitions.
  - (3) Internal security of the FASP area.

#### 3. Command Responsibilities

- a. The Commanding General, MCAGCC, is responsible for the safety and protection of personnel and property of this Command. Responsibilities include:
- (1) Ensuring the qualification and certification of ammunition and ordnance personnel stationed aboard MCAGCC are in accordance with current directives.
- (2) Maintaining a Safety Department responsible for ensuring compliance with explosive safety criteria.

- (3) Requiring personnel of Marine Corps commands, other military agencies, federal agencies, and contractors to conduct their activities under the guidelines of this order and any other applicable directives while aboard the Combat Center.
- (4) Enforcing the requirements established within this order as well as those within references (a) through (s).
- (5) Initiating those directives and inspections that are necessary for compliance with the rules and regulations described within this order. If no safety rule or regulation exists, the Commanding General, MAGTFTC, MCAGCC will exercise necessary action to control the hazard.
- b. Commanding Officers and Officers-in-Charge are responsible for providing appropriate security and following explosive safety standards and procedures while handling munitions. Commanders will ensure that only those munitions required for immediate training needs are unpackaged. Investigations shall be requested for munitions that are relegated to an unserviceable condition due to excessive breakout or rough handling.

#### Chapter 2

# Prepositioning, Requisitions, Issues, Turn-Ins, and Reporting

1. <u>General</u>. Any questions regarding the prepositioning, requisition, issue, or turn-in should be directed to Officer-in-Charge, CMA.

# 2. Munitions Reporting - Class V(W)/(A)

- a.  $\underline{\text{Unit Reporting}}$ . Units utilizing class V(W) munitions will submit expenditure reports via their chain of command within 48 hours after completion of the exercise.
- b. SLTE Reporting. Units receiving Class V(W) munitions from the FASP to support the SLTE package will submit an expenditure report to Tactical Training Exercise Control Group (TTECG) within 48 hours after completion of each range/event.
- c. <u>Format</u>. Each report will consist of Department of Defense Identification Code (DODIC), quantity received, quantity expended, quantity turned-in serviceable, and quantity turned-in unserviceable. See NAVMC 11381 Class V(W) Expenditure Report (figure 2-1).
- d. Class V(A). The report for Class V(A) will be accomplished via Ammunition Transaction Reports (ATRs).

# 3. Security Measures Concerning Munitions

- a. Responsibility. Unit Commanders are responsible for the security and control of assigned munitions. Commanders are responsible for ensuring that only authorized personnel receipt for munitions drawn from the CMA and FASP. Unit commanders will designate, in writing, the personnel authorized to sign requisitions and to receipt for munitions to each supporting ASP/FASP. Authorization and sample signature letters should be submitted as an enclosure to the unit's Statement of Annual Requirements. The authorization letter will be updated whenever there is a change of Commanding Officer or designated personnel. Updated letters of authorization will void all previous letters. Units should follow up to ensure letters of authorization are received by the CMA/FASP to avoid delays in support.
- b. <u>Control</u>. Proper supervision and control will be maintained for munitions in the customer's possession. By virtue of the nature of munitions, stringent security procedures, accountability, and control must be maintained to ensure that every round is used for its intended purpose and not discarded or pilfered. Munitions not expended will be returned to the appropriate storage activity. The following control measures will be taken:
- (1) Supervisory personnel will be present when the vehicle/convoy is picking up or returning munitions from or to the CMA.
- (2) The Officer in Charge (OIC) will assume responsibility for munitions when they arrive at the training site. The OIC will inventory munitions and verify those amounts against the DD Form 1348-1 (figure 2-2) issue document and will receipt for the same. The above inventory will not be delegated down to the unit ammunition technician. The OIC will:
  - (a) Ensure the munitions are controlled and issued to the users.
- (b) Avoid Excessive Breakout. Ensure that the munitions are not removed from the packing containers until it is required for firing.

- (c) Ensure that supervisory personnel have in their possession a NAVMC 10155 card (Ammunition Malfunction Data Collection Guide).
- (3) Upon completion of the exercise, the OIC will ensure that unexpended munitions are made safe, inventoried, verified, and receipted for by the appropriate storage activity. It is extremely important that the ending inventory quantity be verified against what is turned in to the storage activity to prevent the pilferage of unused training munitions. The OIC will sign the turn-in figure 2-2 to verify the type, lot number, and quantity of the munitions. Once signed, there will be no changes to the quantity field. If additional munitions are turned in, a new figure 2-2 will be made for the new quantity. Any quantity changes will be scrutinized by the OIC, AVO, Ammunition Technician, and S-4 personnel as this may indicate a compromise in munitions control. Control measures include:
- (a) If any items are determined to be missing and are of reportable quantities, the using unit will submit a missing, lost, stolen, or recovered (MLSR) report via the chain of command.
- (b) Unit commanders will establish procedures that ensure timely recovery of live ordnance and salvageable munitions components (brass, links, etc.).
- (c) Munitions requested shall be limited to that on hand quantity necessary to support known requirements. That quantity must not exceed that which can be properly safeguarded.
- (d) Unserviceable munitions will be afforded the same degree of security and control that is afforded to other categories of munitions.
- (e) Munitions will not be removed from the confines of the Combat Center, except as duly authorized by proper authority.
- (f) Ammunition will not be provided gratuitously, offered for sale, sold, or exchanged for privately owned or government property.
- (g) Ammunition will never be abandoned, destroyed, fired indiscriminately or otherwise disposed of in order to circumvent the inconvenience of returning it to a storage site.
- (h) Ammunition will not be locally procured without prior approval from Marine Corps Systems Command (MARCORSYSCOM) (PM, AMMO).
- (i) Ammunition shall not be disassembled, altered, or modified except for those normal operations provided for in user level technical publications, ordnance manuals, technical directives, and authorized operations performed by qualified EOD personnel.
- (j) Commanders will ensure that all cognizant personnel have a thorough understanding of issue and turn-in procedures. They will also ensure that personnel know that munitions are considered hazardous and shall be handled accordingly.
- (k) Munitions will be expended for the intended training purposes only.
- (4) Munitions which have been stolen, recovered or any other unlawful possession will be reported to PMO and the Naval Criminal Investigative Service (NCIS). Before relinquishing control of recovered munitions, a chain

of custody must be established covering the time the munitions are recovered up to the time the munitions are turned in to the CMA. The munitions will remain in storage until the investigation is complete. If munitions are of a reportable quantity or type, an MLSR will be submitted by the recovering unit per reference (o).

- c. <u>Security of the Center Magazine Area</u>. CMA personnel maintain security of the magazine area. The PMO will serve as First Responders in the event of an intrusion or alarm activation.
- 4. Notice of Ammunition Reclassification. Notices of Ammunition Reclassification (NAR) are generated by the Naval Ammunition Logistics Center in Mechanicsburg, Pennsylvania for rapid dissemination of changes of ammunition condition codes. Each NAR is sequentially numbered by calendar year, e.g., NAR 1-99, 2-99, etc. Units that maintain security munitions or training munitions are required to maintain a NAR file. The following guidance is provided:
- a. Upon receipt of a NAR, the lot numbers of munitions will be checked against the lots cited in the NAR. If the lot number that is maintained by the unit is affected by a NAR, a positive response message report will be initiated by the activity as directed by reference (q).
- b. If a NAR places security and/or training assets in an unserviceable condition code, the munitions will be returned to the issuing activity for a one-for-one trade for serviceable stocks.
- c. NARs will be filed in NAR number sequence by calendar year. These files will be kept until they are incorporated into the latest edition of reference (q).

# 5. Authorized Quantities of Munitions Stored by Units

- a. Permanent storage of munitions in any facility other than the CMA is prohibited except as authorized by the current edition of reference (b). Reference (c) authorizes commanders to store limited quantities of security and/or reactionary ammunition in unit armories with appropriate authorization letter. These munitions will be accounted for on NAVMC 10774 cards as specified in reference (b).
- b. The OIC of the MTU is authorized to store munitions in support of annual requalification requirements. The munitions will be maintained in the ready service locker, which is located in the vicinity of the armory.

		Glas	s V(W) Expenditur	e report				
rom: (OIC/EOD) Print Name:			Rank:	UIC	Unit			
				F	Phone Number	E2782 700	55 Y 57 (27 )	18.642.79
tef (a) MCO P4400 150 . Per the references, the follotange/Training Area	(b) MCO wing Class V(V	3570.1 (c) DA Pamphiet 38 V) expenditure report is complete						
RECEIPT DOCUMENT NUMBER	DODIC	NOMENCLATURE	LOT NU SERIALN (NOT	UMBER	REC. FD	NDED	GTY TURNED IN (SERVICEABLE) (NOTES 2,3)	QTY TURNED II (UNSERVICEABL (NOTES 2,3)
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	1920-5				0.00	1		15 95 160
	1937	Luga Bara 175. Say					Direction in	
	E 22		A 1				9-12-12	
	1432							SOLUTION IS
	12.1 1	_					FILE.	
				-	Tal Internet	1000	P	
				77				
f applicable) (Numbe in ranges per Individual Training S osston Commander (if applicable) certify the receptisspenditure da onsumed on the rangettraining and all expended ammunition retro IDC (Signature)	(Print Name shed above is	Rank, Sustan	the turn- returned Armo T  (Print Na  (Print Na  (Print Na  (Unit name)	in documents (if the unexpended sch or Authorizer me. Rank)	ed the quantities of ar applicable) for any un assets to an authoric d Individual.	expended Classed siterage activ	s V(tV) per note 2 a rity.	ed nd
OTE 1: All serial numbers for ser	alized munitipo	annotated on the issue/turn-in d	ocuments attached to this exp	enditure report w	with a copy of the expe	endhure messa	pe.	
OTE 2: Unexpended Class V(W) OTE 3: Serviceable Turn-in is an	enumition with a	using the same document number as condition code of A.B.C.N and Unser	viceable Tum-in is ammunitio					
etention: Expenditure reports are &E Audit and Verification Off	filed by fiscal ye	ar (FV) and retained for current year	plus two FY's.					
		eport against all receipt and turn-	n documentation (DD1348	-1A's) and con	rective action	is	is not require	3.
A&E Audit and Verification	Officer (Rank/	Print Name/Signature)			Break		Date	
AVMC 11381 (Rev. JUL-2	015) (EF)	Resit Form	FOR OFFICIAL USE O		cf	Pages		um Page Attach

Figure 2-1 - NAVMC - 11381 - Class V(W) Expenditure Report

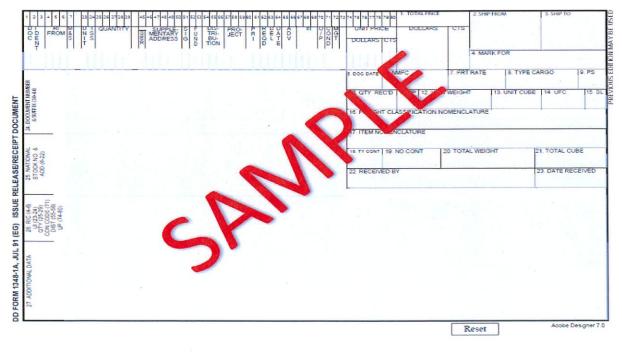


Figure 2-2 - DD FORM 1348-1 - Issue Release/Receipt

#### CHAPTER 3

#### Transportation of munitions

#### 1. Transportation of Munitions by Motor Vehicle

- a. Units engaged in the handling and transportation of munitions will comply with the instructions contained in references (b), (e), (g), (h), (o), and (u).
- b. Explosive laden commercial vehicles requiring access to the installation will be escorted by PMO to the classification yard located at CMA.
- c. Military motor vehicles transporting munitions on or off the confines of the Combat Center shall be driven by operators who have satisfactorily completed a NAVSEA-approved explosive operator's course. Additionally, explosive drivers are required to attend NAVSEA-approved refresher training every 24 months. Explosive Operator certification shall be annotated on the Standard Military Driver's License (OF 346) and expires two years from date of certification. Explosive drivers must have a valid explosive driver's license and current Medical Examiner's Certificate in their possession. The Medical Examiner's Certificate is valid for two years for military operators.
- d. Military drivers transporting munitions on or off the Combat Center will have reference (f) in their possession.
- e. The driver of each vehicle will know the exact type (DODIC), quantity, and condition of ammunition and explosives on their vehicle.
- 2. <u>Unit Transportation Responsibilities</u>. In addition to the requirements stated above, using units are responsible for:
- a. Providing transportation and security as appropriate for munitions transported from or to the CMA or other ammunition supply points and from training areas.
- b. Requesting and providing for the return of unexpended munitions to the CMA. Brass, links, empty containers, and salvageable components will be returned to the Range Sustainment Branch (RSB) in accordance with local SOP and orders.
- c. Ensuring that vehicular security and safety requirements are satisfied.
  - d. Providing necessary placards.
- e. Providing material to secure the load, (i.e., tie downs), and the appropriate placards and safety equipment.
  - f. Preparing documentation (figure 2-2) for the turn-in of munitions.
- 3. <u>Authorized Vehicles</u>. Tactical cargo type vehicles are authorized to transport munitions. Vehicular exceptions and limitations include:
- a. With the exception of the MlOlA, MlO5, Ml27, and MK 14 trailers, the transportation of explosives is not permitted in tactical vehicle cargo trailers.

- b. The High Mobility Multi-Wheeled Vehicle (HMMWV) and Joint Light Tactical Vehicle (JLTV) are authorized to transport munitions except when in the four-passenger cab configuration. When using the HMMWV to transport munitions, any stacks exceeding the height of the forward bulkhead must be palletized and tied down.
- c. Motor vehicles transporting explosives on station are not required to have a windshield or canopy covering the cab (driver's compartment) if the driver and A-driver wear tactical eye protection (goggles) and helmet. This exception does not apply during inclement weather.
- d. Motor vehicles transporting explosives off station (tactical or commercial) will have serviceable windshields. Additionally, the cab of these vehicles will have an original equipment canopy (or top) to protect the driver and A-driver.
- 4. <u>Unauthorized Vehicles</u>. Munitions will not be transported by the following types of vehicles:
  - a. Privately owned vehicles.
  - b. Passenger vehicles (sedans, buses, or vans).
- c. Special purpose vehicles (radio, shop, generator, tankers, dump trucks, etc.).
- d. Vehicles carrying high frequency electrical/electronic transmitting equipment.
  - e. The HMMWV or JLTV when in the four-passenger cab configuration.
  - f. Pick-up trucks with plastic bed liners.
  - g. A/M32K-4A Rough Terrain Trailer.
- h. Vehicles equipped with Drive-Cam (or similar) monitoring systems that transmit a signal via cellular signal.

# 5. Vehicle Regulation and Requirements

- a. Vehicles used to transport munitions will be required to undergo a vehicle inspection at the unit's motor pool. This inspection will be completed prior to arriving at the CMA. This inspection will be in accordance with reference (h) using DD Form 626, Motor Vehicle Inspection (Transporting Hazardous Materials) (figure 3-4). Unit ammunition technicians and aviation ordnance handlers are not authorized to sign figure 3-4 certifying that a vehicle is safe for transporting munitions. The unit's Motor Transport Officer or his designated representative will accomplish this certification.
- b. Vehicles used for the transportation of munitions will be clean, free of trash and debris, and have necessary dunnage in place prior to reporting to the CMA. Organizational property such as gas cans, water cans, tents, and individual equipment will not be carried in the cargo space while transporting munitions.
- c. The vehicular requirements contained in references (b) and (h) will be observed and followed.
  - d. Explosive Hazard Placards

- (1) Motor vehicles transporting munitions will display the appropriate explosive placards.
- (2) Placards will be the NATO diamond shaped placards. Locally produced and modified placards are not authorized.
- (3) The State of California prohibits the use of reflective materials on the front of motor vehicles. As such, non-reflective placards will be used on the front of motor vehicles transporting munitions off station. Placards will be displayed on four sides of vehicles transporting munitions. Placards will not be displayed on empty vehicles.
- (4) When a vehicle contains more than one type of hazard, i.e., explosive "1.1" and "1.2", the vehicle will display the placard for the greater hazard (explosive "1.1").
- e. Each vehicle transporting munitions shall be equipped with at least one portable fire extinguisher having an Underwriter's Laboratory (UL) rating of 10B:C or greater capacity. Extinguisher shall be bracket mounted, filled and readily available for use. The extinguisher shall use a non-freezing extinguishing agent 10-pound dry chemical or other non-toxic vapor type with equivalent extinguishing capacity.
- f. The following forms will be in the custody of the explosive driver for each vehicle transporting munitions:
  - (1) NAVMC 10627, Vehicle and Equipment Operation Record.
  - (2) SF 91, Operator's Report of Motor Vehicle Accident.
- (3) OF 346, Motor Vehicle Operator's Identification Card with the "Explosive Driver" stamped or typed thereon and signed by proper authority.
  - (4) Figure 3-4, Motor Vehicle Inspection Report.
- (5) A current Medical Examiner's Certificate signed by authorized personnel. This certificate is good for two years for active-duty military and civilians.
- (6) DD Form DD 2890 (figure 3-3), Special Instructions for Motor Vehicle Drivers for the transportation of munitions off station.
  - (7) Emergency Response Guide as applicable.
- g. The transportation compatibility chart will be used at all times when transporting munitions on and off station. Reference (h) Table 4-1.
- 6. Personnel Requirements for Transporting Munitions
  - a. Supervisory personnel must be knowledgeable of the following:
    - (1) The specific hazards of the materiel they are transporting.
    - (2) Designated transportation routes.
    - (3) Steps to be taken in the event of fire or accident.
- (4) The requirement to remain with the vehicle until the cargo has reached the final destination and has been received by an authorized person.

- b. Motor vehicle operators that are required to transport explosives on or off the Combat Center will be medically examined and qualified per TM 11240-15/3G.
- c. In addition to the requirements stated above, the following requirements must be met:
- (1) Drivers must be 18 years of age or older to transport munitions over public highways (off station) or on station. Personnel who have demonstrated alcohol abuse (within one year) or drug usage will not be authorized to transport munitions.
  - (2) Drivers must have a valid state operator's license (any state).
- (3) Drivers must have considerable and varied experience with the type of vehicle that they are operating.
  - (4) Drivers must be able to read, write, and understand English.
- (5) Drivers and assistant drivers must have a security clearance commensurate with the security classification of the munitions being transported.
- 7. Motor Vehicle Inspection. Motor vehicles loaded with or to be used for the transportation of ammunition and explosives shall be inspected annually.
- a. When an empty motor vehicle arrives at the CMA for the purpose of being loaded with munitions, the shipping inspector shall be responsible for checking the motor vehicle per reference (r) for the following:
  - (1) Suitability of cargo space.
- (2) Suitability of the driver and proper ownership or leasing of the motor vehicle.
  - (3) Evidence of theft, sabotage, or tampering with the motor vehicle.
- b. After the motor vehicle has been loaded with munitions, the shipping inspector shall be responsible for the following:
- (1) Correct marking and labeling of containers. Detailed instructions for inspecting, marking, and labeling of containers for motor vehicle shipments are contained in references (q) and (r).
- (2) Compatibility and correct arrangement of mixed loads. Table 4-1 of reference (f) contains the compatibility chart for the transportation of munitions on or off station.
- (3) Correct blocking and bracing. Standard procedures for loading and bracing of munitions in conveyances shall be used. The requirement of military standards MILSTD 1320 (WR-S1), MIL-HNDBK-236T (Navy and appropriate Army load drawings) which prescribe truck loading procedures, shall be observed.

#### 8. Vehicular and Driver Safety

- a. In addition to the explosive driver regulations contained in the references, the following regulations will be followed:
  - (1) Prior to any munitions being loaded or unloaded:

- (a) The engine must be "OFF."
- (b) Wheels must be chocked.
- (c) Multi-fuel vehicles must have the transmission set in neutral.
  - (d) The parking brake must be set.
- (e) One portable fire extinguisher having an Underwriter's Laboratory (UL) rating of 10B:C or greater capacity with a minimum of 10 pounds of dry chemical fill placed in front of the vehicle.
- (2) No leaking or damaged munitions containers will be accepted for transportation.
- (3) Munitions that are not properly packaged will not be transported until they are repackaged in a suitable container. Separate projectiles that are not banded on a pallet may be transported providing the rounds are placed on dunnage and secured to prevent movement; munitions containing white phosphorous (WP) must be transported vertically (nose up).
- (4) For the protection of personnel and facilities aboard MAGTFTC, MCAGCC, parking of explosives laden vehicles, except in authorized holding areas or parking areas, for any reason is prohibited. Authorized parking areas include training areas and ranges designated for the use of live ammunition. Unauthorized areas include, but are not limited to, parking on the side of any hard surfaced road or near or around any inhabited building/structure. Contact the MAGTFTC, MCAGCC Explosives Safety Officer at extension 830-8464 for any questions concerning parking of explosives laden vehicles.
- (5) Explosives laden vehicles will not enter inhabited areas, park in public parking lots, or stand overnight in exercise vehicle handling areas. Vehicles that are parked in authorized holding areas (external to CMA) will have proper security provided by the unit. Explosives laden vehicles are not permitted in the main camp area except when traveling on or off base along the designated explosives route (figure 3-2). "Main Camp" is defined as any area bordering any hard surfaced road (Del Valle, Phillips, and Rifle Range roads). When entering or exiting the Combat Center through the main gate and main camp area, vehicles are not permitted off Del Valle Road. The exception to this rule is when munitions are required for security purposes and are held in authorized areas. Commercial shipments of ammunition and explosives will be escorted by PMO from the Front Gate directly to CMA.
- (6) The loaded gross weight of munitions will not exceed the rated load capacity of that vehicle. Consideration will be given to road conditions when determining vehicle loads. Off-road is considered to be all roads, which are not regularly maintained or not of a hard surface (hardball).
- b. The danger of fire is inherent in every motor vehicle loaded with munitions. Drivers transporting munitions will be made aware of the following hazards:
- (1) Should a fire break out on an explosive laden vehicle, the driver will stop the vehicle as far from the road and inhabited buildings as possible.

- (2) If any part of the truck except the actual cargo catches fire, the driver should immediately attempt to extinguish the fire by using a fire extinguisher. Every effort should be made to prevent the fire from reaching the cargo of the vehicle. If the cargo does catch fire, the driver should not attempt to fight the fire.
- (3) If the cargo is on fire, or if the fire in any part of the vehicle cannot be controlled with equipment at hand, the driver will:
- (a) On Mainside or Camp Wilson Area, notify PMO and Combat Center Fire Department (CCFD) by the fastest means available, and upon arrival of the Police and Fire Department, furnish specific information as to type and quantity of munitions loaded on the vehicle. If on Range or in Training Area, immediately contact BEARMAT.
- (b) Give public warnings, by the fastest means available, to keep personnel at least a one-half mile from the fire.
- (4) Explosives laden vehicles will not be driven past fires burning on or near the highway until the driver has determined that such passing can be made safely and without stopping.
- 9. <u>Improper Transportation</u>. When the CMA has determined that returned munitions have been rendered unserviceable or have questionable serviceability due to improper handling or transportation NAVMC 11865, Class V(W) Discrepancy Report (DISREP) (figure 3-5) will be issued to the unit. The following procedures will be followed:
- a. If munitions are rendered unserviceable by military personnel, a request for investigation will be forwarded (via the chain of command) to the Commanding Officer of the customer's unit. An investigation will not be requested for damage due to normal wear and tear.
- b. Standard Form (SF)-361, Transportation Discrepancy Report (TDR), (Figure 3-6), shall be used for reporting over, short, astray, loss of or damage to munitions shipments; improper loading or blocking and bracing of the load; improper handling by the carrier; improper placarding and other transportation discrepancies. Preparation of the TDR shall be in accordance with instructions detailed in reference (h).
- c. Standard Form (SF)-364 (figure 3-7), Report of Discrepancy (ROD) shall be used for reporting preservation, packaging, and marking discrepancies noted in shipment of munitions. Packaging deficiencies that result in damaged material that are considered to endanger life, impact combat or development operations or affect other material shall be reported immediately to the shipping activity via the most expeditious means. In all instances involving packaging deficiencies in munitions shipments and violations of Department of Transportation (DOT) regulations, distribution will be in accordance with the guidelines if reference (h).
- 10. Transportation Waivers. It is the policy of MAGTFTC, MCAGCC, per reference (b) to minimize the movement of ammunition and explosive on public highways by Marine Corps personnel. Government owned and operated vehicles may only be used to transport ammunition and explosives up to 150 miles from MAGTFTC, MCAGCC and will require prior authorization from the Commanding General. The request For Off Base Shipment of Class V(W) Materiel (figure 3-1) is provided to request the transportation of munitions with government vehicles at least seven working days prior to the day the event will commence.

11. Combat Loading Waivers. Per reference (v), the CG, MAGTFTC, MCAGCC has waived the requirements for transporting munitions by Tactical Military Motor Vehicle specified in reference (b), provided all movement will be in strict compliance of reference (h), in that combat loading will be "limited to live fire training areas only". Ammunition and personnel in the same vehicle(s) enroute to and from the training area is prohibited. Combat loaded vehicle(s) are restricted from entering Camp Wilson at any time and are not authorized on Phillips or Del Valle Roads aboard MAGTFTC, MCAGCC. In addition, waivers may be granted if the motor vehicles meet the specific guidelines of reference (h). Combat loading of any type munitions entering or departing the CMA or FASP is prohibited.



# UNITED STATES MARINE CORPS UNIT LETTERHEAD

8000 Org Code Date

From: Commanding Officer, (Unit)

To: Commanding General

Via: (Commanding General or Officer, if nessesary)

Subj: REQUEST FOR OFF BASE SHIPMENT OF CLASS V MATERIEL

Ref: (a) NAVSEA OP 5 VOL 1

(b) CLASS V MATERIEL MANUAL

Encl: (1) Route Map (enclose a map of a route to be taken (internet maps OK)

(2) RM Worksheet

1. Per the references, it is requested this Command be authorized to transport ammunition listed below on (date) from the Center Magazine Area aboard MAGTFTC-MCAGCC, Twentynine Palms, to (Destination).

2. The following ammunition will be transported:

DODIC NOMENCLATURE QUANTITY NEW

- 3. Justification: (state reason)
- 4. The ammunition will be in convoy to the following destination:
- a. (Describe route taken, i.e., MAGTFTC-MCAGCC, Twentynine Palms to Adobe Road; Adobe Road to Lear Avenue.; etc...)
- 5. Necessary liaison will be executed with the Provost Marshal's Office and the appropriate state's Highway patrol as specified in reference (a) and (b).
- 6. Point of contact is (name and title) at (phone number).

(signature)
I. M. MARINE

Copy to: (xxxx)

Figure 3-1 - Format To Request For Off Base Shipment Of Class V Materiel

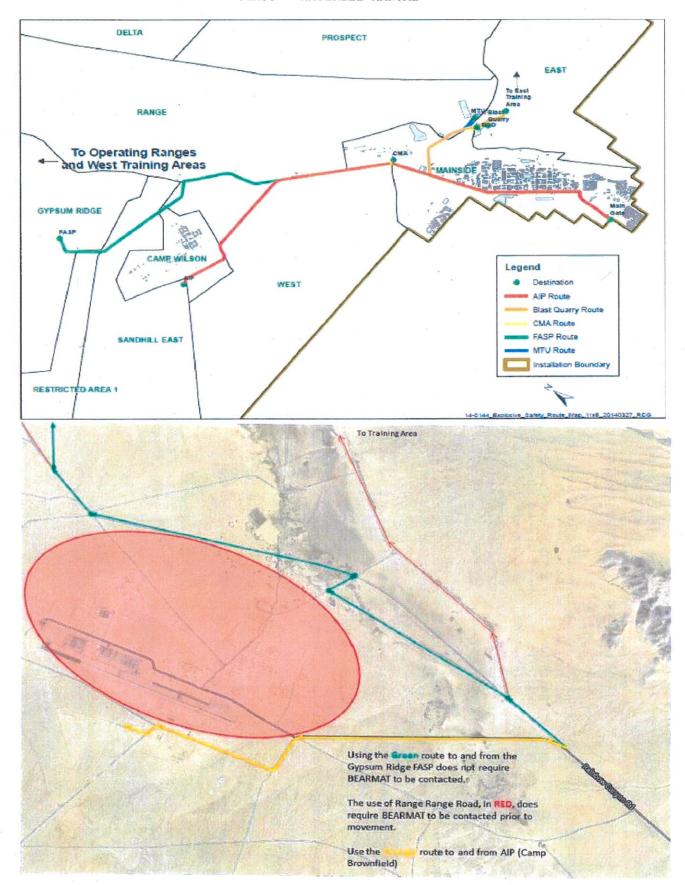


Figure 3-2 - MAGTFTC, MCAGCC Explosive Route

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c. PLACE AND DATE				d. SIGNATU	RE OF DECL	ARANT/CERT	FIER		
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Figure 3-3 - DD Form 2890 - DoD Multimodal Dangerous Goods Declaration

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DD FORM 626, OCT 2011		P	REVIOL	JS EDITIO	N IS OBS	OLETE						Page	1 of 3

Figure 3-4 - DD Form 626 - Motor Vehicle Inspection (Transporting Hazardous materiel's)

Print Form NAVMC 11865 (Rev. 07-12) (EF) CLASS V(W) DISCREPANCY REPORT (DISREP) DISREPW Supported Unit Data Supporting Activity Data Unit/TAMIS UIC: Unit/DODAAC: Unit Representative(s): Issue/Receipt: Date/Time: Vehicle Inspector: Vehicle/Trailer No.: Reporting Official: DISCREPANCIES Hazmat Endorsement Tarpaulin Improper Dunnage Medical Certification Fire Extinguisher pess Gear Chock Blocks Glove Box Edition SF91/94 Placards e Breakout Load Plan Straps Route Plan Incompatible Load incomplete/Improper/Missing Paperwork Mechanical Failure Packaging Armed Guard Warning Equipment Marking Delegation of Authority Other/Additional Information Enclosure At Photo Attached Other/Additional Information or Comments: **ACKNOWLEDGEMENTS** Supporting Activity Supervisor. Sign: (mm) Supported Unit Representative: Print: Sign: No Yes Supported Unit Supervisor: Notification Required: Sign: (manual) No Major Subordinate Command: Notification Required: Print: Sign: Yes No Explosives Safety Officer: Notification Required: Print: Sign:

Reset Form FOR OFFICIAL USE ONLY Adobe LiveCycle Designer 9

Figure 3-5 - NAVMC 11865 - Class V(W) Discrepancy Report (DISREP)

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Figure 3-6 - Standard Form (SF)-361 - Transportation Discrepancy Report (TDR)

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Figure 3-7 - Standard Form (SF)-364 - Report of Discrepancy (ROD)

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STANDARD FORM 364 BACK (REV. 2-80)

Figure 3-7 - Standard Form (SF)-364 - Report of Discrepancy (ROD)

#### · CHAPTER 4

#### STORAGE AND HANDLING OF MUNITIONS

- 1. Center Magazine Area (CMA). CMA personnel will be guided in their duties by references (b), (d), (j), (p), this manual, and appropriate CMA SOPs. The Combat Center ESO will conduct periodic onsite inspections of the CMA. Deficiencies noted by the ESO will be addressed to the OIC of the CMA for correction.
- 2. <u>Handling of Class V Materiel</u>. The precision required in all phases of munitions manufacturing is all too frequently negated by the manner in which it is subsequently handled. Improper handling of munitions may result in malfunctions with the inherent possibility of loss of life and damage to equipment. Close supervision of personnel handling munitions is mandatory. When possible, ammunition technicians and ordnance handlers should supervise personnel in handling munitions. The below guidelines are set forth in order to provide proper supervision in the handling of munitions.
- a. Regardless of the durability of the munitions packaging and ruggedness of the containers, drops from even a low height could result in damage to munitions. Of particular concern are munitions with solid rocket motors (i.e., AT4's, RAT0 bottles). Solid rocket motors are subject to cracking which will, when fired, result in over-pressure in the rocket motor and possible rupture. Rockets that show evidence of rough handling will be placed in an unserviceable condition code and shall not be fired.
- b. Munitions will be handled in a manner that will prevent shock or friction. Subjecting munitions to these conditions may result in misfire, detonation, damage, and/or possible malfunction when fired.
- c. Munitions will not be subjected to prolonged exposure to direct sunlight or inclement weather.
  - d. Munitions shall not be thrown, dropped, dragged, rolled, or tumbled.
- e. Munitions should be handled carefully to avoid obliterating or defacing the identification markings.
- f. Wooden boxes that have been treated with pentachlorophenol (PCP) may present a serious toxic hazard to personnel handling them. Crystals formed when the PCP has exuded from the container are toxic. When visibly obvious crystals are detected, supervisory personnel will be notified for corrective action. No personnel will handle the containers until proper corrective actions have been taken.
- g. No flame or spark producing devices will be carried or used by personnel handling munitions. There will be no smoking within 50 feet of munitions.
- h. Mechanical equipment used in the handling of munitions will be in good condition both mechanically and electrically. If the equipment is stationary, it must also be grounded.
- i. Evidence that munitions containers have been subjected to suspect conditions (roughly handled, exposed to the elements or extreme heat), will be promptly reported to the OIC or supervisor of that operation. Once discovered, the supervisor will:

4 - 1

- (1) Request technical assistance from qualified ammunition technician or aviation ordnance handler or Quality Assurance to determine if the munitions are serviceable.
- (2) When it is determined that the munitions are suspect or unsafe, assistance from EOD will be requested.
- (3) Isolate suspect munitions from serviceable munitions and mark appropriately.

# NOTE: MUNITIONS DETERMINED TO BE SUSPECT/UNSAFE WILL BE MOVED TO A SUSPECT VEHICLE SITE (PRIMARY) RANGE 106 OR (SECONDARY) RANGE 107.

- j. Munitions shall not be disassembled, altered, or modified except for those normal operations provided for in user level technical publications (e.g., fusing projectiles) and authorized operations performed by qualified EOD personnel.
- k. Commanders will ensure that the individual, crews, or other groups are properly trained to handle, fire, or otherwise expend munitions. APPROVED MATERIEL'S HANDLING EQUIPMENT (MHE).
- 1. <u>Selection and Use of MHE</u>. Industrial MHE used for handling munitions shall be chosen per reference (b). Only approved MHE will be used in routine operations involving munitions. The proper type of equipment shall be selected based on the munitions handled, the type of handling situation involved, and the location or area where the handling will be performed.
- m. <u>Safe Operating Instructions for MHE</u>. Personnel involved with handling munitions shall have a thorough understanding of the operation, application, and limitations of the vehicle used for handling and moving these dangerous materiel's in both hazardous and non-hazardous locations. All MHE operators must be qualified to handle munitions. Reference (t) provides detailed precautions and periodic test and inspection procedures related to the operational safety of industrial MHE. The MHE must be tested and inspected daily.

# 3. Field Storage of Munitions may be Authorized for the Following

- a. The allowances of small arms in Camp Wilson Armory Compound.
- b. The storage of munitions at the Gypsum Ridge FASP.
- c. The temporary storage of munitions overnight in the field.
- d. The storage of ordnance at the AIP.

# 4. Field Storage at the Gypsum Ridge Field Ammunition Supply Points (FASP)

a. Field storage of Class V(W) munitions aboard the Combat Center's Gypsum Ridge FASP is authorized. A request for this training area must be submitted to Range Scheduling using Range Facility Management Support System (RMFSS). Incoming OIC will conduct an in brief meeting with the Combat Center ESO before drawing munitions from the CMA. On-site inspections of the Gypsum Ridge FASP by the Combat Center's ESO will be accomplished as necessary, but at a minimum weekly.

- b. No later than two weeks prior to the initial draw of munitions, the OIC must submit to the Combat Center ESO the following information:
- (1) A storage plan for the munitions being stored at the Camp Wilson FASP. The storage plan will have the type of munitions and the DODIC being stored in each storage site and the Net Explosive Weight.
- (2) Two copies of a fire map indicating storage sites, items, and net explosive weight (NEW) stored therein, along with the highest hazard present for each storage site. The ESO will deliver these to the CCFD (both main camp and Camp Wilson locations).
- (3) A letter of instruction (LOI) for operations in Gypsum Ridge FASP. The LOI will address the following field storage procedures:
- (a) Munitions will be stored by compatibility group. Use of Compatibility Chart in reference (k) is authorized.
- (b) The maximum amount of munitions that can be stored in each Field Storage Unit (FSU) is 90,000 lbs. net explosive weight up to class/division (18) 1.1.
- (c) Arrangement of munitions should be accomplished in such a manner as to facilitate inventory and stock management.
- (d) FASP access will be limited to authorized personnel only. Ensure all visitors are logged in and out of the FASP. No visitor should be allowed to carry weapons, flame producing items, cell phones, or radios while inside the FASP.
- (e) Conduct inventories of munitions in accordance with applicable regulations.
  - (f) Establish security requirements (quard force, fence, etc.)
- $\,$  (g) Establish a direct communications link between the FASP and the unit's reaction force.
- (h) Establish billeting areas outside inhabited building distance restrictions.
- (i) Any activity involving personnel not essential to and not currently involved in FASP operations will be located at least at the inhabited building distance from the FASP.
- (j) Sufficient firefighting equipment will be available at each storage site. In addition to the standard equipment, (e.g., shovels, fire extinguishers) the following requirements apply:
- $\underline{1}$ . Fire symbols will be placed at each FSU indicating the highest hazard present. The signs will be placed in such a manner that they are visible from a minimum distance of 500 feet from the most likely avenues of approach.
- 2. Storage sites containing white phosphorus (WP) will have a full immersion barrel of water of sufficient size to completely immerse any leaking rounds. Additionally, there will be a leaker kit present at the site which contains a gallon bottle containing a 5% sodium bicarbonate solution (5/6 cup sodium bicarbonate to a gallon of water), a set of band cutters, and personal protective equipment (rubber gloves, rubber apron).

- (k) Munitions will be stored according with current publications.
- (1) Suitable dunnage will be used in order to provide ventilating space between the bottom of the stack and the deck. Munitions will be protected against water and direct sunlight when possible.
- (m) Partially filled boxes will be plainly marked to indicate the DODIC, NSN, lot number, and the quantity of munitions stored therein. Partially filled boxes will be conspicuously marked to indicate a partially full (light) box and will be placed on top of the stack. There will be only one light box per lot number/stack.
- (n) Accurate storage records will be maintained in order to locate or determine the quantity of munitions in the FASP. The CSSD that inhabits the FASP shall have access to the qualification/certification files of all Marines that will be handling, storing, and transporting ammunition/explosives.
  - (o) The two-man rule shall be always in effect inside the FASP.
- Temporary Field Storage (TFS). All TFS sites, also known as Ammunition Holding Areas (AHAs) fall under the Explosive Safety Inspection Program. ESO may conduct Explosive Safety inspections at any location. Any field storage of ammunition at one location that is for multiple ranges shall request authorization to establish an Ammunition Holding Area. The request shall be on unit letterhead from the Commanding Officer addressed to the Commanding General (ATTN: ESO). This package shall include list of ammunition, including nomenclature, DOD Identification Code (DODIC), Net Explosive Weight (NEW) and quantity, dates of storage, justification for storage, and RM Worksheet. This request is to be submitted to the ESO 10 working days prior to the date of storage to guarantee the package is processed. Additionally, all AHAs will be requested and approved through Range Scheduling. If the range request is not approved, the ESO approved AHA request does not constitute permission to construct and operate the AHA. The storage of ammunition for a specific range is covered under reference (v). AHA personnel will maintain communication with BEARMAT once established.

#### 6. Class V(A) Storage within the AIP

- a. The Combat Center's ESO will accomplish an on-site inspection of the SELF/AIP area weekly. Deficiencies noted by the ESO will be addressed to the AIP Ordnance Officer for correction.
- b. The designed purpose and location of the AIP in relation to the SELF requires additional ordnance safety procedures. No later than two weeks prior to the initial draw of munitions by the Air Combat Element (ACE) inhabiting the SELF, the AIP must submit to the Combat Center ESO an Operations LOI, Storage Plan, and two copies of the Fire Map. These procedures will include the following:
- (1) Reference (s) is applicable to storage and operations at the SELF and AIP.
- (2) The maximum NEW shall not exceed 30,000 pounds per cell of the 8- cell module of HC/D 1.1 like cased items only.
- (3) Munitions other than those specifically listed above, regardless of storage compatibility, shall not be stored in the eight-cell module.
  - (4) The 2-Cell can store HC/D 1.2 and 1.3 up to and including 30mm.

Anything above 30mm is all HC/D 1.2 or all 1.3.

- $\,$  (5) MK 77 firebombs shall not be stored in the AIP after filling with fuel.
  - (6) Gasoline powered equipment is prohibited from entering the AIP.
  - (7) The two-man rule shall be in effect at all times inside the AIP.
  - (8) Open fires (campfires and refuse burning) are prohibited.

#### \*\*\*WARNING\*\*\*

Wood used in packaging and bracing of munitions is commonly treated with hazardous chemicals to prevent wood deterioration. Ingestion of hazardous material such as arsenic and PCP, which are used as wood preservative, may occur if wood dunnage is burned.

#### 7. Ordnance Operations within the AIP

- a. Essential components of the AIP are the weapons assembly areas. Established procedures shall fall within the purview of applicable checklists and reference (b).
- b. Intraline QD tables for the appropriate hazard class shall be used for the bomb assembly and rocket assembly areas. Only earth cell modules constitute a barricaded D=9W1/3 QD factor for measurement to an assembly area. Under no circumstances will munitions be assembled/disassembled or unpacked for delivery within the eight-cell or two-cell module.
- c. Assembled rockets (in or out of pod) shall not point at any vertical structure within the AIP, e.g., cement wall or RSLs.
- d. Pre-building of rocket pods is authorized, providing no more than 72 hours' worth of normal rocket requirements are assembled. Warheads shall not be attached to the rocket motors until a rocket dispenser is available for immediate loading.
- e. MK 80 series practice bombs will be assembled in the same area designated for live bomb assembly.
- f. Pre-building of live bombs is authorized providing no more than 72 hours' worth of normal bomb requirements are anticipated.
- g. Fill operations for MK 77 firebombs shall be conducted at the staging area outside the AIP perimeter berm.
- 8. Thunderstorm Conditions. All thunderstorm conditions are set by the Regional Meteorological and Oceanographic (METOC) Center located at Marine Corps Air station (MCAS) Miramar.
- a. Thunderstorm Advisory: Thunderstorm activity is within 50 nautical miles of installation or will occur within 12 hours.
- b. Thunderstorm Condition II (TS II): Thunderstorm activity is within 25 nautical miles of installation or will occur within 6 hours.
- (1) When TS II is set notifications shall be made to Airfield Operations, AIP, FASP, all flying squadrons on deck, CMA, Base EOD, SELF Fuel section, and BEARMAT.

- (2) When notification is received, those units/sections handling ordnance need to begin preparations to shut down operations quickly and safely if required.
- c. Thunderstorm Condition I (TS I): Thunderstorm activity is within 10 nautical miles from Installation or will occur within 1 hour.
- (1) When TS I is set notifications shall be made to Airfield Operations, AIP, FASP, all flying squadrons on deck, CMA, Base EOD, SELF Fuel section, and BEARMAT.
- (2) When notification is received, all ordnance operations and refueling cease until condition is lifted.
- d. Lightning within 10 (L10): Lightning is within 10 nautical miles of the Installation.
- (1) When L10 is set, notifications shall be made to Airfield Operations, AIP, FASP, all flying squadrons on deck, CMA, Base EOD, SELF-Fuel section, and BEARMAT.
- (2) All ordnance handling and refueling will cease, ordnance will be made as safe as possible, and personnel will seek cover.
- (a) Aircraft landing with ordnance that requires de-arming shall remain in the de-arm area oriented at the safe heading until the condition is lifted.
- (b) Aircraft that is loaded and does not need to be armed may take off at the discretion of the ACE Commander or his designated representative.

#### CHAPTER 5

#### MALFUNCTIONS AND ACCIDENTS

1. Applicability. The provisions of this chapter are applicable to all unit's training with or handling class  $V\left(W\right)$  munitions aboard the Combat Center.

# 2. Malfunctions, Misfires, and Accidents Involving Munitions

- a. All personnel involved in the employment of munitions must be aware of the need for prompt evaluation and timely reporting of incidents and accidents where munitions do not function as designed. When such incidents occur, the individual in charge of the unit concerned must immediately begin to assemble the vital information which will permit timely and accurate evaluation and reporting.
- b. The individual in charge of the firing exercise will have the following items in his possession:
  - (1) A copy of the applicable range regulations.
- (2) NAVMC 10155 (current revision), Ammunition Malfunction Data Collection Guide.
- (3) Primary: positive radio communication with BEARMAT. Secondary: Telephone number for BEARMAT, extension (760) 830-6535.
  - (4) A copy of reference (1).

# 3. Malfunction and Deficiency Reports

- a. Reference (1) establishes procedures for the preparation and submission of Ammunition Malfunction and Deficiency Reports. A copy of NAVMC 10155 will be carried by all supervisory personnel involved in the handling and firing of munitions. The NAVMC 10155 will be used to collect data needed to report malfunctions. The following procedures will be followed by the senior individual at the scene of the malfunction/accident. The senior individual at the scene of the malfunction/accident will contact Range Control and take the following action:
  - (1) Immediately cease-fire.
  - (2) Render assistance to casualties.
  - (3) Identify all witnesses to the malfunction.
- (4) Safeguard weapons, materiel's, or fragments that could provide evidence as to the cause of the malfunction.
- (5) Initiate action to photograph weapons (in their original positions), material, munitions, and fragments, which could provide evidence to the cause of the malfunction. All evidence will be held for 120 days after the malfunction for further investigation by higher authority.
- (6) Request that a service support unit inspect the weapon or munitions for serviceability. Weapons involved in a malfunction will be safeguarded by the Range Safety Officer or the OIC of the firing detail to preserve evidence until the service support unit has completed a technical evaluation.

- (7) Identify and record all lot numbers of each munitions component (fuze, projectile, propellant charge, primer) when applicable.
- (8) Record all evidence of unauthorized disassembly, alteration, or substitution of the munitions and weapon involved.
- (9) Establish details as to the proper or improper handling of munitions to include crimping, striking, exposure to open flame or weather conditions prior to the malfunction.
  - (10) Establish the degree of cleanliness of the munitions and weapon.
- (11) Establish the condition of the munitions packaging and appearance prior to receipt.
- (12) Segregate all the malfunctioning lot for turn in to the CMA or supporting FASP. All class V residue will be turned in unless the stability of the munitions is suspect. Suspect munitions will be inspected by EOD personnel prior to being turned' into the CMA or supporting FASP.
  - (13) Request EOD support as appropriate.
- (14) Notify the OIC, CMA of the malfunction. A local suspension of the affected lots may be imposed.
- (15) Obtain all data and information required for the malfunction report. The exercise activity's parent unit will be notified.
- (16) In cases involving injury to personnel or damage to equipment, retain all witnesses, except those injured, at the scene until the investigating officer arrives.
- b. When a malfunction involves injury or death, the incident will be reported by the most expeditious means available to the following personnel:
- (1) <u>During Working Hours</u>. Assistant Chief of Staff, G3/5/7/MAGTF Training will notify the following personnel.
  - (a) MAGTFTC, MCAGCC Chief of Staff.
- (b) Assistant Chief of Staff, Installation Support Directorate (ISD).
  - (c) Head, Center Logistics Division (CLD).
  - (d) Officer-in-Charge, Center Magazine Area.
  - (e) Combat Center Adjutant.
    - (f) MCAGCC Safety Director.
- (2) After Working Hours. Notify the Command Duty Officer, who will in turn notify the MAGTFTC, MCAGCC Chief of Staff; AC/S G3/5/7/, AC/S ISD; Head, CLD; OIC, CMA; MAGTFTC Safety Director; and other personnel in conjunction with the submission of OPREP-3 reports.

### c. Responsibilities of Unit Commanders

(1) When a malfunction occurs that does not involve injury or death, immediately notify the Head, CLD and the OIC, CMA for assistance in

submitting the formal report. After normal working hours, notify the Command Duty Officer, located in building 1554, extension 7200.

- (2) Submit a message malfunction report, per enclosure (1) of reference (1), within 24 hours of the malfunction. The report will info both the CMA and the ESO. The correct Automatic Message Handling System (AMHS) Plain Language Address Directory (PLAD) is USMC TWENTYNINEPALMS CA//CMA//SAFETY//. Strict compliance is required in order to expedite submission. An advance copy of the report will be provided to the OIC, CMA. It is recognized that in some cases it will be virtually impossible to gather all the required information within 24 hours. In cases where all pertinent information cannot be provided in the initial report, a supplemental report will be submitted within 15 working days of the initial report.
- (3) Appoint an investigating officer and immediately proceed with the conduct of the investigation.
- (4) Ensure the weapons found at fault during the investigation are suspended from use and properly labeled to prevent use until the defect/condition is corrected or evaluation instructions are received.
- (5) Malfunctions that are obviously attributable to weapon deficiencies shall be reported by Naval message via the appropriate chain of command.
- (6) Provide for separate maintenance and security of the weapon. Maintain fragments and pertinent debris related to the malfunction for a period of 120 days unless directed otherwise by higher authority.

### 4. Malfunctions Attributable to Other Causes

- a. Supervisory and responsible personnel must be aware that malfunctions and accidents are not always caused by faulty munitions. Common malfunctions and accidents which are not attributable to faulty munitions but to human error or weapon failure are:
- (1) <u>Misfires</u>. Misfires are defined as rounds of munitions in which the propellant has failed to ignite, and which may be safely unloaded from the weapon. Other related information includes:
  - (a) Misfires resulting from human error or weapons are:
- $\underline{\textbf{1}}.$  Failure to completely close the bolt or breach mechanisms.
- $\underline{\underline{\textbf{2}}}$  . The improper assembly of firing mechanisms and firing locks.
  - 3. Failure to install the firing pin.
  - 4. Failure to replace a broken or worn firing pin.
  - 5. Weak springs in firing mechanisms and firing locks.
  - (b) Misfires will be handled by the using unit as follows:
- $\underline{1}$ . Munitions will be left in the weapon for the safe waiting period as prescribed in the appropriate technical instruction.

- 2. When the appropriate time has elapsed, remove the round from the weapon, replace all safety devices, and return the round to the appropriate container.
- $\underline{3}$ . If the round has been determined to be safe for transportation, properly mark and return it to the supporting FASP or to the CMA.
- $\underline{4}$ . If the using unit is unable to withdraw the round from the weapon, EOD assistance should be requested through BEARMAT.
- (2)  $\underline{\text{Duds}}$ . Duds are defined as munitions that have failed to function in accordance with the designed intent when fired, launched, or otherwise employed as specified, e.g., AT4 fires but the warhead fails to detonate on impact. Related information includes:
  - (a) Duds resulting from human error or weapon failure are:
- $\underline{\textbf{1}}.$  Failure to remove safety wires, pins, etc., from the fuze.
- $\underline{2}$ . The shearing off of delay fuzes on impact with rocky hard surfaces.
  - 3. Failure to set the fuze from a safe to an armed position.
  - 4. The utilization of an improper fuze.
  - (b) Premature and delayed burst results from:
    - 1. Improper fuze settings.
    - 2. Failure to remove muzzle covers and other obstructions.
    - 3. Improper machine gun head spacing.
- $\underline{\underline{4}}$ . Permitting live rounds to remain in overheated weapon chambers.
- $\underline{5}$ . Abuse or mishandling of munitions and fuzes, e.g., striking fuze, primer, or projectile against a sharp object.
- (c) Although investigations and reports are required when the above incidents cause death, injury, or damage, cognizant personnel must be careful in evaluating the cause to ensure munitions are not unnecessarily suspended when human error or a weapon failure is the cause.
  - (d) Contact BEARMAT to request EOD support if necessary.
- 5. <u>Defective Munitions</u>. Munitions which cause malfunctions when fired will be reported per enclosure (1) of reference (1) to the Commanding General, MAGTFTC (Attn: OIC, CMA). The report will be filed via the using unit's appropriate chain of command.

### CHAPTER 6

### SALVAGE AND DISPOSAL

### 1. Salvage of Munitions Components, Shipping, and Storage Containers

- a. In accordance with reference (n), units will coordinate the turn-in of all salvageable, but not returnable, material with the Range Sustainment Branch (RSB). It is recommended that units make liaison with RSB before training exercises to determine exact requirements.
- b. The following general guidelines will be followed in the return of salvageable items:
- (1) Fired brass (small arms) will be segregated by type and will be free of all foreign substances such as steel clips, links, sand, and dirt.
- (2) Munitions containers will have all explosive residue and rounds removed. Plastic and cardboard must be removed, all hazardous markings must be obliterated, and containers marked as empty as directed in reference (b).
- (3) High dollar value containers (aviation ordnance containers, copperhead cans, 120mm tank ammo containers, PA-125 25mm ammo cans, line charge containers, etc.) will be returned to the CMA.

### c. Reusable Materiel (Class V (A))

- (1) Units will turn-in all reusable ordnance packaging materiel's to the CMA. The CMA will process the materiel per reference (i).
- (2) Reusable materiel's are listed in reference (i). The following is a guide to determine which items are reusable:
  - (a) Certain cluster bomb unit containers.
  - (b) Laser guided bomb component containers.
  - (c) Missile containers.
  - (d) Some bomb pallets.
  - (e) Metal pallets (all series).
  - (f) .50 cal, 30mm, and 25mm gun ammo cans.
- (3) Covers for steel powder containers will be identified by type and munitions components (example: box wood f/3.5" rocket container, propellant 8", M19, etc.).

### d. Reusable Materiel (Class V(W))

- (1) Units will turn in all reusable munitions packaging materiel's to the CMA. The CMA will process the materiel per current instructions.
  - (2) Reusable materiel's include, but are not necessarily limited to:
    - (a) PA-125 Metal 25mm ammo containers.
    - (b) M913A4 Line charge containers.

- (3) PA-125 containers will not have markings obliterated or empty stickers applied. Packaging material will be left inside these containers. Upon turn-in to the CMA each container will be opened to verify that it is empty. The unit will fill out certified empty slips and place in each container.
- (4) M912A4 containers will be completely empty, all hazard markings obliterated, "Empty" stickers or markings applied, and certified empty slips placed inside each container.
- e. Materiel Deemed as Safe (MDAS) / Materiel Potentially Presenting an Explosive Hazard (MPPEH). In accordance with reference (n), Battalion Commanders shall appoint in writing individuals authorized to certify and verify items being turned in are safe and free of explosive materiel. Each vehicle is required to have double signed documentation prior to arriving at RSB. Any item not listed on document will cause the entire vehicle to be turned away for re-certification and verification. The unit is required to leave RSB for the training area to conduct this operation. Local units are not authorized to conduct this operation aboard Mainside. The documents and instructions for RSB can be obtained by contacting RSB directly. If turned away, the load is no longer considered MDAS, but is now considered MPPEH. MPPEH is to be treated as live ammunition and requires a licensed operator with explosives endorsement.



# UNITED STATES MARINE CORPS UNIT LETTERHEAD

IN REPLY REFER TO: 8000
ORG CODE
DD MMM YYYY

From: Commanding Officer

To: Supervisor, Range Sustainment Branch, Environmental Affairs Division, Installation Support Directorate, MAGTFTC, MCAGCC, Twenty-nine Palms, California

Subj: APPOINTMENT AS MATERIEL DOCUMENTED AS SAFE INSPECTOR CERTIFIER AND VERIFIER FOR MATERIEL POTENTIALLY PRESENTING AN EXPLOSIVE HAZARD

Ref:

- (a) DODI 4140.62
- (b) MCO 4400.201-V7
- (c) MCO 8020.10
- (d) NAVSEA OP 5 Volume 1
- 1. Per the references, the personnel listed below are appointed to act as Materiel Documented as Safe (MDAS) Certifier and Verifier for Materiel Potentially Presenting an Explosive Hazard (MPPEH). This appointment is valid for one year from the date of the signature.
- 2. Per reference (d), the individuals listed below have completed annual MPPEH training, and are technically qualified to inspect, certify, and verify the MDAS status of all **expended ground ammunition** and MPPEH, to include ammunition containers and associated packaging material for the purpose of conducting the turn in of MDAS to the Range Sustainment Branch, Environmental Affairs Division, Installation Support Directorate, MAGTFTC, MCAGCC, Twentynine Palms CA.

NAME			SIGNATURE	RANK
Last,	First	MI.	4	XXX
Last,	First	MI.		XXX
Last,	First	MI.		XXX
Last,	First	MI.		XXX

3. Point of contact at this command is ORDO, AMMO CHIEF, or ORD CHIEF at (XXX) XXX-XXXX.

I.M. COMMANDER



# UNITED STATES MARINE CORPS UNIT LETTERHEAD

IN REPLY REFER TO: 8000 ORG CODE DD MMM YYYY

From: Commanding Officer

To: Supervisor, Range Sustainment Branch, Environmental Affairs Division, Installation Support Directorate, MAGTFTC, MCAGCC, Twenty-nine Palms,

California

Subj: APPOINTMENT AS MATERIEL DOCUMENTED AS SAFE INSPECTOR CERTIFIER

AND VERIFIER FOR MATERIEL POTENTIALLY PRESENTING AN EXPLOSIVE

HAZARD

Ref: (a) DODI 4140.62

- (b) MCO 4400.201-V7
- (c) MCO 8020.10
- (d) NAVSEA OP 5 Volume 1
- 1. Per the references, the personnel listed below are appointed to act as Materiel Documented as Safe (MDAS) Certifier and Verifier for Materiel Potentially Presenting an Explosive Hazard (MPPEH). This appointment is valid for one year from the date of the signature.
- 2. Per reference (d), the individuals listed below have completed annual MPPEH training, and are technically qualified to inspect, certify, and verify the MDAS status of all **expended aviation ordnance** used by the Squadron and MPPEH, to include small arms ammunition, ammunition containers, and associated packaging material for the purpose of conducting the turn in of MDAS to the Range Sustainment Branch, Environmental Affairs Division, Installation Support Directorate, MAGTFTC, MCAGCC, Twenty-nine Palms CA.

NAME				SIGNATURE	RANK
Last,	First	MI.			XXX
Last,	First	MI.			XXX
Last,	First	MI.			XXX
Last,	First	MI.			XXX

3. Point of contact at this command is ORDO, AMMO CHIEF, or ORD CHIEF at (XXX) XXX-XXXX.

I.M. COMMANDER

Figure 6-1 - Range Sustainment Branch Turn-in Package

The explosives safety status of MPPEH shall be determined by one of two methods:  (a) 100-percent visual inspection and an independent 100-percent reinspection by qualified personnel or (b) processing by a DDESB-approved method with appropriate post processing inspection (e.g., sampling, etc.) of the material A certification statement as shown shall be signed and dated by a DoD contracted person or a Government employee. This documentation is only valid if the material(s) being turned in is properly segregated and secured.  DTID:  QTY:  NSN or Description:  Certification Statement:  The material(s) being turned in has been inspected or processed by DDESB-approved same, & required by DoI policy, and to the best of my knowledge and belief does not pose an expective hazard.  Signature:  Date  Printed Name Position (Grade Rank): Organization & Address:  Phone (COM/DEM/FAX) F.W. ij Addrels:  Signature:  Date  Printed Name Position (Grade/Rank): Organization & Address:  Phone (COM/DEM/FAX) E-Mail Address:  Recommend this material be released to The Range Sustainment Branch  Reference:  DDII 4140.62, "Management and Disposition of Material Potentially Presenting an Explosive Hazard", ourrent edition	Title:	Material Documented As Safe Certificate				
NSN or Description:  Certification Statement:  The material(s) being turned in has been inspected or processed by DDESB_approved a rans, as required by Dol policy, and to the best of my knowledge and belief does not pose an expr live hazard.  Signature:  Date  Printed Name/Position (Grade/Rank): Organization & Address: Phone (COM/Dest/FAX)/Fav it Address:  Signature: Date  Printed Name/Position (Grade/Rank): Organization & Address: Phone (COM/DSN/FAX)/E-Mail Address: Phone (COM/DSN/FAX)/E-Mail Address:  Recommend this material be released to The Range Sustainment Branch  Reference: DoDI 4140.62, "Management and Disposition of Material Potentially Presenting an Explosive Hazard".	Requirements:	methods:  (a) 100-percent visual inspection and an independent 100-percent reinspection by qualified personnel or  (b) processing by a DDESB-approved method with appropriate post processing inspection (e.g., sampling, etc.) of the material A certification statement as shown shall be signed and dated by a DoD contracted person or a Government employee. This documentation is only valid if the material(s)				
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policy, and to the best of my knowledge and belief does not pose an expansive hazard.  Signature:  Date Printed Name/Position (Grade/Rank): Organization & Address: Phone (COM/Den/FAX) F.N. il Address:  Signature:  Date Printed Name/Position (Grade/Rank): Organization & Address: Phone (COM/DSN/FAX)/E-Mail Address:  Phone (COM/DSN/FAX)/E-Mail Address:  Recommend this material be released to The Range Sustainment Branch  Reference: DoDI 4140.62, "Management and Disposition of Material Potentially Presenting an Explosive Hazard",		Certification Statement:				
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Figure 6-1 - Range Sustainment Branch Turn-in Package

# Range Residue Turn-In Procedures

All units conducting live fire training aboard the Combat Center are required to turn in brass, ammunition residue, packing material and boxes to the Range Sustainment Branch (RSB).

The RSB Processing Center located in the gated area adjacent to Bldg. 2096 on Rifle Range Road and is operational between the hours of 0600 – 1400, Monday, Tuesday, Thursday & Friday. We are closed for processing on Wednesday's.

A RSB MDAS CERTIFICATE MUST BE FILLED OUT AND SIGNED BY 2 APPOINTED/QUALIFIED PERSONNEL PRIOR TO ARRIVAL TO THE RANGE SUSTAINMENT BRANCH YARD.

ALL turn-ins will be conducted by no less than two (2) representatives from the command, an Ammunition Technician, an Aviation Ordnance Technician, a Staff NCO or Officer MUST BE PRESENT With Every Load. This will allow the RSB personnel to return any unfired items to a trained or responsible individual who can safely return the unfired ammunition to the CMA or ASP. The unit representatives will also supervise off-loading and sign the required certificates/documents.

ALL MATERIEL MUST BE SEPARATED, SEGREGATED, AND ORGANIZED! ANY LOAD DEEMED UNSAFE BY RSB PERSONNEL WILL BE TURNED AWAY!

### REORGANIZATION OR SORTING OF VEHICLE ON RIFLE RANGE ROAD IS PROHIBITED

**Hazardous Waste:** All hazardous waste to include Treated Wood Waste (TWW), "P" treated wood, MRE heaters and batteries will be taken to the Hazardous Waste Management Branch (Bldg. 2095 Rifle Range Road) prior to arriving at the RSB.

**All Serviceable Wood Pallets & Metal Banding:** will be turned in to the Industrial Recycling Operating Section (BLDG 2085 on Rifle Range Road).

- 1. **Range Trash:** Range trash must be bagged, segregated, and visually inspected prior to disposal; MRE/food waste **WILL NOT BE ACCEPTED** and should be disposed of at the Camp Wilson Trash Collection Area (Bldg. 5408), which is adjacent to the Camp Wilson Mess Hall.
- 2. **Staging at RSB:** Upon arrival at Building 2096, park all vehicles across the road. Unit representatives can then enter the RSB and inform personnel that you have range residue for turn-in, you will be advised how to proceed with the turn-in.

### **Special Requirements:**

- **Expended Brass Cartridges:** Clear of all debris, clips removed and sorted by caliber (20mm, .50 caliber or 7.62/5.56/9mm)
- Links: Clear of all debris, including brass, not necessary to sort by caliber or size
- Cartridge Actuated Devices (CADS): Sorted by metal type (aluminum or steel)
- Artillery containers (Propellant Charge Cans): Must have lids removed, lifting plugs separated
  from other materiel's and plastic rotating protector bands must have metal clips removed. All PA-171
  Canisters must have all lids removed, the foam inserts removed and separated from the Plastics.
- 40mm Cartridge Cases: Expended steel, aluminum and plastic will be separated by type
- Shotgun Shells: Separated by materiel type
- Ammunition Cans: Lids removed, and all plastic inserts removed and separated
- Flash Tubes: Must be removed from 120mm Tank bases
- Mortar Fuze Safety Pins: Separated and consolidated into an ammunition can
- **Plastic Mortar Containers:** Straps cut off, (explosive) stickers and rubber gaskets (bare plastic), wire attached to lid removed.
- Cardboard Mortar Containers: Lids removed, and plastics separated (not to be mixed with trash)
- Expended Smoke Grenades: Fuze removed, spoons and safety pins placed in ammunition can.
- Cardboard Grenade Containers: Must be separated into two halves
- APOB Containers: Must remove rubber gasket, foam inserts and desiccant bags

- Expended Missile Launch Tubes: Must be inspected by RSB personnel and cleared for disposal
- **Wood (non TWW):** Once all materiel has been inspected, all wood (non TWW) will be placed into roll-on roll-off container for landfill disposal or processing
- Concertina and Barbed Wire: Must have all Engineer Stakes Removed and separated.
- Hesco Barriers: Must have all trash and debris removed from inside the barrier.
- All Aviation Munition Containers Must Be Returned to the CMA
- 3. **Ammunition Cans:** Available at the RSB for issue to training commands
  - a. 5.56mm (Green)
  - b. 7.62mm (Green)
  - c. .50 Cal. (Green)
  - d. 81mm mortar cans (Green)
  - e. 25 mm (Green)
- 4. **Reutilized Ammunition Cans for ammunition turn-in at the CMA** shall be conducted in the following manner:
  - a. Ammunition cans will only be reutilized if proper demilitarization and procedures are completed by the unit, as required:
    - i. Ammunition cans spray painted to remove all markings, i.e., DODIC, munitions type and explosive labels
    - ii. Units shall provide spray paint
    - iii. Units shall sign for receipt of ammunition cans

# CORRECT/SAFE

# INCORRECT/UNSAFE



Figure 6-1 - Range Sustainment Branch Turn-in Package

### CHAPTER 7

### STRATEGIC EXPEDITIONARY LANDING FIELD OPERATIONS

### 1. General

- a. The SELF at the Combat Center is unique in design, mission, and operational tempo. Because of this, written publications are frequently vague in operational requirements in the advanced base environment. Squadrons shall consider the SELF a combat loading area (CLA) and are subject to the requirements therein. The following are the minimum requirements:
- (1) All deploying squadrons are subject to and required to follow the maintenance instructions (MI) used at a home base.
- (2) Munitions, with the exception of inert practice bombs without spotting charges, decoy devices, and cartridge-actuated devices (CAD) stored in the ready storage lockers (RSL), shall not be stored or staged at the SELF without a clear need for use per the daily flight schedule. MK 77 firebombs may be temporarily stored at the flight line providing the initiators are removed and returned to the AIP. All ordnance will be downloaded from aircraft at the end of flight schedule and returned to the AIP
  - (3) Munitions staged at the SELF shall be under constant supervision.
  - (4) The RSLs are limited to 5,000 pounds NEW class/division 1.3/1.4.
- (5) All RSLs/storage areas must have the hazard class/division posted.
- (6) Each hangar has two approved storage areas for Aircraft Life Safety Systems (ALSS) or seat shop. These spaces are marked by yellow rectangle and have a limit of 25 pounds NEW HC/D 1.3 or 1.4. When ordnance is present, hangars will have hazard class/division posted.

### 2. Aircraft Loading/Downloading

- a. Aircraft shall be grounded to existing rods prior to loading/downloading of ordnance.
- b. No more than one ordnance laden trailer may be pulled onto the flight line at a time per towing vehicle at walking speed.
- c. Munitions shall be strapped to their respective weapons cradle until just prior to loading. All ordnance will be secured immediately upon downloading. At no time will unsecured ordnance be left unattended.
- d. K-4A and K-10 trailers are authorized for use at the SELF. They shall be chocked, and the hand brake will be set when the trailer is not in motion. Reliance on the towing vehicle for braking in a parked condition is not authorized.
- e. Aircraft may be fueled after loading without regard to weapons loaded. Simultaneous fueling and loading may be done provided NAVAIR regulations are followed. Ordnance laden aircraft being fueled shall remain grounded and have competent ordnance supervision available.
- f. Aircraft loaded with any type of ordnance are prohibited from entering the wash rack area.

### 3. Hot Loading / Hot Seating

### a. Hot Loading

- (1) Aircraft hot loading, reloading, and downloading (commonly referred to as hot loading) is defined as weapons loading or downloading on aircraft while engines are turning, or auxiliary power units are operating. Aircraft hot loading shall only be conducted as necessary in a deployed operational environment or while operating in a structured training environment to establish/maintain hot loading proficiency and techniques. Hot loading is only authorized for specific weapons and T/M/S aircraft that have established/authorized hot loading procedures resident in NAVAIR Conventional Weapons Loading Manuals and/or associated loading Checklists.
- (2) Prior to conducting hot loading operations, rehearsals (hot loading procedures performed under cold loading conditions) and safety briefs will be conducted and will consist of all participating ground and air crew. At a minimum, rehearsals and safety briefs will include individual safety, firefighting equipment familiarization, emergency procedures, and team member assignment/responsibilities.
- (3) Hot loading operations are only authorized at the following locations:
- (a) Designated FARPs/FOBs established aboard CONUS/OCONUS training areas/ranges approved for the types of munitions being used.
- (b) At designated locations in support of contingency operations when operationally required.
- (c) Marine Corps Air Stations (to include USMC Expeditionary Landing Fields, USMC Auxiliary Landing Fields, and USMC Outlying Fields). While operating aboard Marine Corps Air Stations, hot loading operations will only be conducted in designated and appropriately siteapproved areas.
- (4) Hot refueling of FW and RW aircraft with HE and/or forward firing ordnance is not authorized aboard Marine Corps Air Stations, Naval Air Stations, Air facilities, Expeditionary Landing Fields, Auxiliary Landing Fields, and Outlying Fields. Hot refueling shall be conducted in accordance with procedures outlined in NA 00-80T-109.
- (5) Concurrence of the Installation Commanding Officer shall be obtained prior to conducting hot loading operations aboard their stations.

### b. Hot Seating

- (1) Aircraft must be in a designated area in accordance with local directives.
- (2) Ordnance de-arm crew assumes control of the aircraft for safing of weapons. This includes positioning safety levers and installing parent rack electrical safety pins.
- (3) Upon completion of aircrew change, standard operating procedures will be carried out (i.e., aircraft checks and arming in designated area). Only the following ordnance items are authorized for carriage on hot seat events:

- (a) Mk 76/106/BDU 48 practice bombs.
- (b) Laser Guided Training Rounds (LGTR).
- (c) BDU 45 and inert Mk 80/BLU series bombs.
- (d) Captive missiles.
- (e) Guns/gun pods.
- (f) Internally carried pyrotechnics, Signal Underwater Sound (SUS) charges, pods, and dispensers with decoy flares.
  - (g) REXTORP/EXTORP.
- (4) Aircraft utilizing gun/gun pods are required to enter designated arm/de-arm areas for safing prior to returning to designated hot seat area.

### c. Hot Seating Loaded with HE and/or Forward Firing Ordnance

- (1) Hot seat procedures for aircraft with HE and/or forward firing ordnance loaded is authorized. The following restrictions and conditions apply:
- (2) USMC aircraft, including all aircraft assigned to MAWTS-1 sponsored training courses, with HE and/or forward firing ordnance shall only hot seat in designated USMC CALAs, USMC FARPS, USMC FOBs, USMC Expeditionary Landing Fields, USMC Auxiliary Landing Fields, and USMC Outlying Fields.
- (3) Aircraft assigned to Naval Strike and Air Warfare Center (NSAWC) and Helicopter Weapons Schools (HSMWS/HSCWS) during pre-expeditionary training requirements, and during NSAWC/HSMWS/HSCWS sponsored pre-hostile exercises, are authorized to hot seat with HE and/or forward firing ordnance loaded. Aircraft shall only hot seat in designated CALAs and FARPS where NSAWC/HSMWS/HSCWS are operating.
- (4) Aircraft with HE and/or forward firing ordnance shall enter designated arm/de-arm areas for safing prior to conducting hot seat.
- (5) Prior to hot seating aircraft with HE and/or forward firing ordnance loaded, all Master Arm, Armament Overrides and Armament Switches must be in the off/safe position.
- (6) Upon completion of aircrew change, standard operating procedures will be carried out, i.e., aircraft checks and arming in designated areas.
- (7) Personnel shall limit time in front of forward firing ordnance during hot seat procedure.
- (8) Concurrence of the installation Commanding Officer shall be obtained prior to conducting hot loading operations aboard their stations.
- (9) Hot refueling shall be conducted in accordance with procedures outlined in NA 00-80T-109.

### 4. Aircraft Arming/De-arming

a. Regardless of hazard class, forward firing ordnance shall be armed and de-armed in designated areas only. Fixed wing aircraft shall use the end of the runways. Rotor wing aircraft may use the end of the runways or

landing zones (LZ) Gunfighter/Red. Headings at the end of the runway are at a 40-degree offset from the centerline of the runway, e.g., South taxiway "A" heading 140 degrees, North taxiway "D" heading 320 degrees, LZ Gunfighter/Red are 140 to 220 degrees.

- b. Free fall ordnance will not be armed on the parking ramp.
- c. Hung free-fall ordnance, except inert practice bombs, shall be dearmed in the areas designated as forward firing areas.
- d. Aircraft guns that are jammed and cannot be de-armed without intermediate level ordnance assistance shall be taxied to the de-arm area at Approach End.

### 5. Quantity Distance (QD) Requirements

- a. The West parking ramp is limited to 1,780 pounds NEW per loaded aircraft. Minimum separation distance between aircraft is 133 feet. The East ramp is limited to 421 pounds NEW per loaded aircraft. Minimum separation distance is 88 feet.
- b. Staging of ordnance in the East and West staging areas shall be limited to only that ordnance which is required for that day. The maximum NEW that is authorized at the West staging area at one time is 30,000 pounds NEW. The maximum NEW that is authorized at the West staging area at one time is 8,000 pounds.

### 6. Ammunition Issue Point (AIP)

- a. READY SERVICE LOCKERS (RSLs): The AIP has 3 RSLs for use: 2490, 2494, and 2495. The maximum NEW is as follows: 2490-10,000 lbs. HC/D 1.3 and MEQ HC/D 1.4. 2494 and 2495-500 lbs. HC/D 1.1, 5,000 lbs. HC/D 1.3 and MEQ HC/D 1.4. The high security locks for these RSLs will be signed for by MALS OIC or SNCO along with the locks for squadron use on the SELF.
- b. The Inert and Armament Weapons Support Equipment (AWSE) Storage Area is a fixed location and located 50 feet fire separation distance from the Bomb Build-up area.
- c. Each cell of the 8-cell module, building 2493, has a limit of 30,000 lbs. of Hazard Class/Division (HC/D) 1.1 like cased items.
- d. Each cell of the 2-cell module, building 2491, has limits of 5,000 lbs. of HC/D 1.2 or 12,000 lbs. of HC/D 1.3 or 1.4.
- e. The limit for the Rocket Build-up Area, building 2488, is 8,000 lbs. of HC/D 1.1, 5,000 lbs. of HC/D 1.2, 12,000 lbs. of HC/D 1.3, or Mission Essential Quantities (MEQ) of HC/D 1.4. Rocket pod loading headings are between 280 degrees and 320 degrees, or in the safest possible direction due to the nature of training being conducted. Assembled rockets shall not be stored outside the rocket pod.
- f. Aboveground Magazines, buildings 2494 and 2495, each have limits of 500 lbs. of HC/D 1.1, 5,000 lbs. of HC/D 1.3, or MEQ of HC/D 1.4.
- g. Explosive Ordnance Disposal (EOD) Segregation Area has a limit of 500 lbs. of HC/D 1.1 or 1.2, 5,000 lbs. of HC/D 0f HC/D 1.3, or MEQ of HC/D 1.4.
- h. Aboveground Magazine, building 2490, has a limit of 10,000 lbs. of HC/D 1.3 or MEO of HC/D 1.4.

- i. Ammunition Staging Area Number 1 has limits of 21,400 lbs. of HC/D 1.1, 5,000 lbs. of HC/D 1.2, 12,000 lbs. of HC/D 1.3, or MEQ of HC/D 1.4.
- j. Ammunition Staging Area Number 2 has limits of 8,0000 lbs. of HC/D 1.1, 5,000 lbs. of HC/D 1.2, 12,000 lbs. of HC/D 1.3, or MEQ of HC/D 1.4.
- k. The Bomb Build-up Area has limits of 30,000 lbs. of HC/D 1.1, 5,000 lbs. of HC/D 1.2, 12,000 lbs. of HC/D 1.3, or MEQ of 1.4.
- 1. The Small Arms Area has a limit of 15,000 lbs. of HC/D 1.2, 12,000 lbs. of HC/D 1.3, or MEQ of HC/D 1.4.
- m. The Inert Storage Area is approved for storage of munitions related materiel.
- n. Gasoline powered equipment and vehicles are prohibited from entering the AIP while explosives are present.
- o. Armed security shall be maintained when any quantity of explosive materiel is stored within the AIP.
- p. MK 77 firebombs using imbiber beads shall be filled outside of the AIP.
- q. Rocket assembly shall be conducted in the area designated, using proper tools and grounding requirements.
- 7. Ordnance Safety Brief. Deployed units shall not receive, store, or handle explosive material until all personnel have received a pre-operational ordnance safety brief conducted by the ESO.

### CHAPTER 8

### SAFETY

1. <u>General</u>. Safety is of the utmost importance in storing, handling, and transporting ammunition and explosives and is the responsibility of each individual. Complete understanding and strict observance of specified safety regulations is necessary to eliminate unsafe acts and conditions that cause preventable accidents. The two most important considerations in handling munitions are safety and responsibility. The primary responsibility should be to prevent any condition, which may cause injury or death to personnel. All personnel involved in the handling of munitions will be thoroughly indoctrinated in safety precautions, procedures, and principles.

### 2. Standing Operating Procedures (SOP)

- a. All personnel aboard the Combat Center shall conduct ordnance operations in the safest manner possible. An SOP is a required document in which personnel involved in recurring ordnance operations integrate various information from technical requirements, explosive safety standards, Navy Occupational Safety and Health (NAVOSH) standards etc.
- b. Prior to starting any recurring ordnance operation not covered by a published checklist or technical publication, an SOP will be developed. Reference (c) provides the standard in the development of an SOP for those reoccurring operations outlined in Chapter 10 of reference (b).
- 3. Reporting Unsafe Conditions. All unsafe conditions or unsafe acts in and around magazines and explosives areas shall be immediately corrected, if possible, and promptly reported to supervisory personnel. Supervisory personnel shall act to positively eliminate and prevent recurrence of the unsafe condition.
- 4. <u>Unauthorized use of Munitions</u>. Munitions shall be used only in the weapons system for which they were designed. Any tampering with ammunition, explosives, or their components is prohibited. Unauthorized disassembly of explosive components into inert ammunition items is prohibited.
- 5. <u>Inert Loaded, Dummy, and Drill Ammunition</u>. Unless authorized, only inert ammunition shall be permitted for drill or training purposes, displays (inert or otherwise), demonstrations, public functions or patriotic occasions as authorized in reference (b). Ammunition items will not be removed from training areas without the appropriate authorization and the possession of any unauthorized explosive or inert ammunition items is subject to punitive action in accordance with the Uniform Code of Military Justice (UCMJ). The following standards shall be used when certifying munitions as inert:
- a. All division and/or unit commanders shall ensure that all inert loaded or empty ammunition and their components are inspected and certified to be inert and properly labeled as such. See template, Record of Certification and Identification of Inventoried Inert Ordnance Training Aids/Displays, figure 8-1
- b. Only qualified EOD personnel can certify munition items as inert. A complete list of all inert items shall be retained by the unit and are subject to review by Naval Ordinance Safety and Security Activity (NOSSA) Explosive Safety Inspectors as well as the Combat Center ESO.
- c. Proper procedures to label, certify, and record ordnance items that are inert can be found in Chapter 2 of reference (b).

- 6. Aircraft Overflight Restrictions. Fixed wing aircraft are not permitted to fly at an altitude of less than 500 feet over munitions storage/staging areas. Rotary wing aircraft are completely restricted from over flight of munitions storage areas. Every effort will be made to identify aircraft that violate these requirements, and a report of each incident shall be forwarded to the appropriate unit commander.
- 7. Appropriate Safety Gear. Personal protective equipment consists of garments and devices to protect an individual against hazards inherent to the performance of specific tasks. Personal protective gear and safety equipment requirements are addressed in reference (b).
- 8. <u>Inherent Hazards of Munitions</u>. Munitions are designed to inflict casualties and destroy materiel. They make no distinction between friend or foe. Negligence and improper handling can cause them to function before their intended use or to malfunction when used.
  - a. Accidental Explosions. A few causes of accidental explosions are:
    - (1) Fire.
    - (2) Rough handling.
    - (3) Sustained subjection to high temperature.
    - (4) Alteration and/or modification.
    - (5) Exposure to electro-magnetic radiation (EMR).
- b.  $\underline{\text{Fire Hazards}}$ . The following precautions shall be taken to protect munitions from fire:
- (1) Matches, lighters, or spark producing devices will not be permitted within 50 feet of munitions or within the confines of the CMA, AIP, FASP, or any temporary field storage site.
- (2) The ground around all magazines and explosive storage sites shall be free of combustible material. Rubbish shall not be permitted to accumulate, and vegetation will be kept under 18 inches to prevent rapid transmission of fire.
- (3) Personnel shall follow smoking regulations as well as the use of fire producing devices as addressed in reference (b).
- (4) Work requiring soldering, melting of asphalt, use of blowtorches, grinders, or welding equipment will require a hot work permit (figure 8-2). These are issued by the ESO and the CCFD. For acquisition of figure 8-2 contact ESO.

DATE:	ASSIGNED INERT DECAL SERIAL NUMBER:
RECORD OF CERTIFICATION AND IDENTIFICAT TRAINING AIDS/DISPLAYS	ION OF INVENTORIED INERT ORDNANCE
COMMAND AND INSPECTING UNIT: UNITED STATES MARINE CORPS (NAME OF UNIT) MAGTFTC-MCAGCC, TWENTYNINE PALMS, CA 92	279_9100
ITEM (ORDNANCE) INSOECTED: (DODIC, NSN, NOMEN)	275-5100
COUNTRY OF ORIGIN	
PRINTED RANK AND NAME OF INSPECTING EOD OFFICER OR EOD TECHNICIAN	
SIGNATURE OF INSPECTING SOD OFFICER/TECHNICIAN	
DATE CERTIFIED EMPTY LOCATION AND DARRECEIVED	
PRINT RANK AND NAME OF PERSON RECEIVING ITEM	
COMMAND RETENTION LOCAL COMMO DA RECEIVED	e e e e e e e e e e e e e e e e e e e
PRINT RANK AND AME OF PLAN RECEIVING ITEM	
COMMAND DISPOSITION (WF N NO LONGER REQUIRED BY COMMAND)	
PRINTED RANK AND NAME OF PERSON RECEIVING ITEM FOR DISPOSAL	
SIGNATURE OF PERSON RECEIVING ITEM FOR DISPOSAL	,
DATE RELEASED (DD/MM/YY)	
REMARKS	

Figure 8-1 - Record of Certification and Identification of Inventoried Inert Ordnance Training Aids/Displays

# Marine Air Ground Task Force Training Command Marine Corps Air Ground Combat Center EXPLOSIVES SAFETY

HOT-WORK/WELDING PERMIT PERMIT NUMBER 0001-2020 Unit/organization: \_\_\_\_\_ Name of requestor: \_\_\_\_\_\_Phone number: Building number/area/location (where work will be performed including location of heat producing equipment): \_\_ Short description of work to be performed (attach copy of work request/contract): Welding broken vents on storage magazines Firefighting equipment required/on-hand: Fire extinguisher and fire blankets Personnel protective equipment (PPE) required/on-hand: Application face shield, gloves Additional safety procedures and safety equipment required/on-hand: If storage magazine cannot be emptied, fire blankets must be used to precent park from reaching ammunition. Stacks should be 50 feet away from work area. Fire watch wring welding and for 30 minutes after to watch for flare ups. This permit indicates those conditions that were observed at the time and date of the on-site, pre-hot-work/welding, inspection and walk-through. Personnel conducting of work welding operations are not relieved of the responsibility of performing complete and thorough area checks for the processe of visible hazardous conditions. A firewatch will be posted and maintained in the immediate vicinity of all fall hot-work/welding operations and they may not secure from this location until at least 30 minutes after the confusion of these operations. Each firewatch must possess appropriate fire extinguishing equipment at their location. It is not observes an unsafe act or change of condition that did not exist at the time of the on-site inspection must stip or cerations immediately and contact the Explosives Safety Officer (ESO) at ext. 8464. Any change to the conditions or a proved procedures contained herein will void this permit and work will not resume until a new permit is issued. Hot-work/welding to be performed is limited to the following (ESO use only): Magazines 26 and 29 vents as required. Explosives Safety Officer: \_ Signature:\_\_\_\_\_ Fire Inspector Signature:\_\_\_ On-Site Worker/Supervisor: Signature:\_\_\_\_\_ On-Site Worker/Supervisor: Signature:\_\_\_ (Print name) Time/date permit issued: Time/date permit expires:

Figure 8-2 - Hotwork/Welding Permit

Rev. ESO (11/02)

Justification: OP 5 Vol 1 Seventh Revision

### CHAPTER 9

### STORAGE OF AMMUNITION IN ARMORIES

- 1. <u>General</u>. Per references (b) and (c) small arms ammunition is considered to be all ammunition up to and including .50 caliber and all gauges of shotgun shells. This type of ammunition is used in a sidearm, shotguns, and automatic weapons. Per reference (b), CG, MAGTFTC, MCAGCC can grant authorization to store limited quantities of hazard class/division 1.3 and 1.4 ammunition/explosives for security and emergency purposes in facilities such as: hangers, troop buildings, armories, and manufacturing or operating buildings, without regard to quantity-distance requirements specified in reference (b). This flexibility is not intended for convenience or issue/receipt purposes. All storage shall comply with fire protection regulations, and safety/physical security requirements outlined in references (b) and (j). Because of these special requirements, waivers per reference (m) must be requested. Accountability procedures for all ammunition/explosives stored in armories shall be enforced per reference (d).
- 2. Storage of Ammunition. The following storage authority limitations shall be strictly enforced:
- a. No more than 25 pounds net explosive weight (NEW) of hazard class/division 1.4 materiel shall be stored.
- b. No more than 10 pounds NEW of hazard class/division 1.3 materiel shall be stored.
- c. No hazard class/division 1.1 or 1.2 materiel shall be stored in unit armories.
- d. When combining hazard class/division 1.3 and 1.4 materiel, no more than 35 pounds total NEW may be stored, of which no more than 10 pounds NEW may be hazard class/division 1.3 materiel.
- e. The Commanding General, MAGTFTC, MCAGCC can authorize EOD units to store up to 50 pounds NEW of hazard class/division 1.3 and 1.4 ammunition items in EOD operating buildings without regard to explosive safety quantity-distance.
- 3. Requesting Authorization to Store Ammunition in Unit Armories. To obtain authorization to store ammunition in unit armories, submit a request using the example format Authorization Request to Store Small Arms Ammunition in Unit Armories (figure 9-1), to the CG, MAGTFTC, MCAGCC (ATTN: Explosives Safety Officer).
- 4. Safety Requirements for Storage of Ammunition in Armories. Per reference (d), the ESO will annually review all storage authorizations. Per reference (b), the ESO will annually inspect each facility for the following minimum requirements:
- a. Small arms cartridges must be separated in storage, i.e., secured under separate lock in an appropriate locker, safe or other container, from the weapon systems in which they are intended to be used. Original ammunition boxes shall not be used as containers. A roster of personnel authorized to possess keys, or to know safe combinations of ammunition containers must be established.

- b. An accurate and up to date accountability system shall be used to account for every cartridge whether stored in the container or issued to a guard, duty NCO, or officer. The accountability system shall also include inert ammunition items. A weekly inventory shall be conducted of all ammunition items stored in the armory and this inventory must be documented by using NAVMC Form 10774.
- c. Small arms ammunition containers must be clearly marked as containing ammunition and must be separated from other hazardous materiel's.
- d. The following documents shall be kept inside of, or in proximity, to small arms ammunition containers:
- (1) Authorization document from CG, MAGTFTC, MCAGCC to store small arms ammunition in the unit armory.
- (2) Roster of personnel authorized to possess keys and/or have knowledge of safe combinations.
- (3) That the CCFD has information on the location, type, and quantity of ammunition on hand.



### **UNITED STATES MARINE CORPS UNIT LETTERHEAD**

8000 Org Code Date

From: Commanding Officer, Unit

To:

Commanding General

Via:

Commanding General or Officer (Chain of Command)

REQUEST AUTHORIZATION TO STORE SMALL ARMS AMMUNITION IN UNIT ARMORY

Ref:

(a) MCO 5100.29C Vol 1

(b) NAVSEA OP 5 Vol 1

1. Per the references (a) through (c), it is requested that authorization be granted to this command to store the below listed ammunition in (Unit Name) armory in (building number). This ammunition will be used for security and alert purposes.

DODIC

NOMENCLATURE

QTY

CLASS/DIVISION

N.E.W

- 2. Total net explosive weight (NEW) is (list total NEW).
- 3. The storage area meets all requirements regarding physical security, placarding, and will be afforded the appropriate security.
- 4. Point of contact is name (name & title), at extension (number).

I AM MARINE

Figure 9-1 - Format for Authorization Request to Store Small Arms Ammunition in Unit Armories

### CHAPTER 10

### CONDUCT OF EXERCISE

### 1. Conduct of Exercise

- a. Safety during training is a command responsibility. Commanders should satisfy this responsibility through the use of regularly assigned safety personnel. Whenever there is an exercise which has inherently unusual safety factors, a safety officer familiar with the hazards will be appointed in the exercise letter of instruction.
- b. Ground safety precautions to be observed during the exercise include but are not limited to:
- (1) Pyrotechnics are to be employed only in such a manner that the empty shell or projectile will not fall among troops.
- (2) Prior to issue and use, blank ammunition will be inspected to ensure that it does not contain ball rounds. If ball ammunition is discovered mixed in with blank rounds, tactical operations will be ceased immediately, and the nearest umpire or safety officer notified.
- (3) Debris of any sort will not be inserted into the barrel of any weapon.
- (4) Blanks and pyrotechnics will not be fired within 150 meters of aircraft operations areas.
- (5) Duds discovered by exercise participants will not be destroyed, moved, touched, or tampered with in any manner. They will be marked with a rag, stake, or similar device and reported immediately to the unit commander, umpire, or safety officer who will in turn notify BEARMAT of the location and munitions type.
- (6) Chemical munitions (CS, HC, etc.) will not be thrown or employed in enclosed spaces, e.g., tents, vans, vehicles, etc.
- (7) Per reference (q), munitions cleared for overhead fire will only be used when unprotected personnel occupy or cross within the artillery range surface danger zone. Due to limited quantities of cleared artillery rounds available in the system, cleared munitions must only be requisitioned when required to satisfy this requirement. Needless ordering of cleared munitions will deplete readily available stocks and eliminate this fire and maneuver practice.

### (8) Units shall:

- (a) Locate all munitions outside the back-blast area (when applicable) for the weapons involved.
- (b) Store munitions in a position that will minimize the potential for ignition, explosion, or rapid burning.
- (c) Limit the unpacking of munitions at the firing line to the minimum number of rounds needed to satisfy immediate firing requirements.
- (d) Retain packaging materiel, lifting plugs, grommets, propelling increments, and fuzes until firing is complete.

- (e) Not burn wooden munitions containers. They are treated with toxic preservatives.
- (f) Not indiscriminately fire munitions to avoid returning them to the storage site.

### c. Other factors to consider:

- (1) Cover rarely exists in the desert.
- (2) Sand can enter uncovered tubes and open cavities.
- (3) Heat and sunlight may cause the surface temperature of munitions to become extremely high. Gloves will be used to handle munitions if cover is not available. Covers such as tarps and camouflage netting may be used to reduce heat.
- (4) Rust may become a factor if munitions are not protected from the environment.
- (5) Do not overload vehicles. In soft sand areas vehicles may become stuck if not kept on improved surfaces. An increased load weight may overwork the engine, and steering may become inoperable.
- (6) Atmospheric disturbances, high winds, thunderstorms, and earthquakes are local hazards.
- (7) Rattlesnakes, scorpions, and spiders may seek shade in and under pallets of munitions.
- (8) Bees in search of water may enter the area. If this occurs, place an open container of water away from the work area.
- d. <u>Missing, Lost, Stolen, Recovered (MLSR)</u>. Due to the amount of personnel training annually aboard MAGTFTC, MCAGCC, units will find UXO items in the training area. If this occurs, safety is everyone's responsibility, DO NOT DISREGARD ITEM. Contact BEARMAT with grid to request EOD support. Using units shall be required to release MLSRs on any munitions as required by reference (o). However, for units that do not have release authority the 29 Palms CMA will assist in the coordination, reporting and routing of any required MLSRs. ESO assistance may also be requested.

### APPENDIX A

### ABBREVIATIONS/ACRONYMS

1. The following is a list of abbreviations and acronyms that are used in publications and directives dealing with ammunition and explosives. Not all are used in this order; however, users should be familiar with all of these. Others may be found in UM 4400.71.

AA&E

ARMS, AMMUNITION AND EXPLOSIVES

AΑ

ANTI-AIRCRAFT

AAC

ANTI-AIRCRAFT, COMMON

ACFT

AIRCRAFT

ADAM

AREA DENIAL ARTILLERY MUNITIONS

ADP

AUXILIARY DETONATING FUZE

AGM

AIR TO GROUND MISSILE

AIP

AMMUNITION ISSUE POINT

AMATOL

A MIXTURE OF AMMUNITION NITRATE AND TNT

AMCR

ARMY MATERIEL COMMAND REGULATION

**AMMO** 

AMMUNITION

AMMO NON-EXP

AMMUNITION, NON-EXPLOSIVE

AMS

ACTUATED MINES SIMULATOR

ΑP

ARMOR PIERCING

APDS

ARMOR PIERCING, DISCARDING SABOT

APERS

ANTI-PERSONNEL

API

ARMOR PIERCING, INCENDIARY

API-T

ARMOR PIERCING INCENDIARY, TRACER

APT

ARMOR PIERCING, TRACER

ASSY

ASSEMBLY

ΑT

ANTI-TANK

ATM

AIR TRAINING MISSILE

BD

BASE DETONATING

BSTR

BOOSTER

CAL

CALIBER

CC

CONDITION CODE

A-1

ENCLOSURE (1)

CG COMMANDING GENERAL

CHEM CHEMICAL

CHG CHARGE

CMNT COMPONENT

CN CHLOROACETOPHENONE (TEAR GAS)

CNO CHIEF OF NAVAL OPERATIONS

COM COMMON

COMPATIBILITY .

COMP A EXPLOSIVE MAIN CHARGE OF RDX AND WAX

COMP B EXPLOSIVE MAIN CHARGE OF RDX, TNT AND WAX

COMP B-4 EXPLOSIVE MAIN CHARGE OF RDX, TNT AND WAX

COMP C-2 EXPLOSIVE MAIN CHARGE MIXTURE, PRIMARILY RDX

COMP C-3 EXPLOSIVE MAIN CHARGE MIXTURE, PRIMARILY RDX

COMP C-4 EXPLOSIVE MAIN CHARGE MIXTURE, PRIMARILY RDX

CTG CARTRIDGE

DB DOUBLE BASE

DBL DOUBLE

DC DEPTH CHARGE

DEMO DEMOLITION

DET DETONATOR, DETONATING:

DM ADAMSITE (A NAUSEA PRODUCING AGENT)

DOD DEPARTMENT OF DEFENSE

DOT DEPARTMENT OF TRANSPORTATION

DODAC DEPARTMENT OF DEFENSE AMMUNITION CODE

DODIC DEPARTMENT OF DEFENSE IDENTIFICATION CODE

DS DISCARDING SABOT

EACH

EAF EXPEDITIONARY AIRFIELD

EMERG EMERGENCY

EOD EXPLOSIVE ORDNANCE DISPOSAL

ESQD EXPLOSIVE SAFETY QUANTITY DISTANCE

EX EXERCISE

EXPL EXPLOSIVE

EXT EXTINGUISHER

F FLASHLESS

FASP FIELD AMMUNITION SUPPLY POINT

FL FLAMMABLE LIQUID

FLEX FLEXIBLE

FMU FUZE, MULTIPLE USE

FRAG FRAGMENTATION, FRAGMENTING

FZ FUZE

FIN FEDERAL ITEM IDENTIFICATION

FSN FEDERAL STOCK NUMBER

FC FUND CODE

GM GUIDED MISSILE

GREN GRENADE

GBL GOVERNMENT BILL OF LANDING

GW GUIDED WEAPON

HC HEXACHLOROETHANE-ZINC MIX (SMOKE MIX)

HE HIGH EXPLOSIVE

HEAT HIGH EXPLOSIVE, ANTI-TANK

HEICM HIGH EXPLOSIVE, IMPROVED CONVENTIONAL MUNITIONS

HE-P HIGH EXPLOSIVE, PLASTIC

HEDP HIGH EXPLOSIVE DUAL PURPOSE

ID IDENTIFICATION

ILLUM ILLUMINATION

INCEND INCENDIARY

IRR-MAT IRRITATING MATERIEL

LAUNCHER AIRCRAFT UNIT

LOADED

LINEAR

MATL MATERIEL

MDAS MATERIEL DEEMED AS SAFE

MK MARK

MPPEH MATERIEL POTENTIALLY PRESENTING AN EXPLOSIVE

HAZARD

MM MILLIMETER

MT MECHANICAL TIME

MTSQ MECHANICAL TIME, SUPER QUICK

N/A NOT APPLICABLE

NALC NAVAL AMMUNITION LOGISTICS CODE

NEW NET EXPLOSIVE WEIGHT

NO NUMBER

NSN NATIONAL STOCK NUMBER

ORD ORDNANCE

PD POINT DETONATING

PD/D POINT DETONATING, DELAY

PDF POINT DETONATING FUZE

PDR POWDER

PRI PRIORITY

PROJ PROJECTILE

PROP PROPELLANT

PROX PROXIMITY

PYRO PYROTECHNIC

QD QUANTITY DISTANCE

RAP ROCKET ASSISTED PROJECTILE

RSB RANGE SUSTAINMENT BRANCH

SAP SEMI-ARMOR PIERCING

SELF STRATEGIC EXPEDITIONARY LANDING FIELD

SENS SENSITIVITY

SMK SMOKE

SP SMOKELESS POWDER

TRACER

TRNG TRAINING

TNT 2-4-6 TRINITROTOLUENE

TP TARGET, PRACTICE

U/I UNIT OF ISSUE

UK UNITED KINGDOM

VT VARIABLE TIME

W/O WITHOUT

WP WHITE PHOSPHORUS

### APPENDIX B

### DEFINITIONS

The definitions in this appendix are applicable to reference (b) and are in agreement with other statutory publications where individual weapons or weapons systems publications employ these terms to include a different scope of action. Not all are used in this order; however, personnel involved in the handling of ammunition and explosives should be familiar with these definitions:

ACCIDENT. Any unplanned act or event which results in damage to materiel or injury or death of personnel, when not the result of enemy action.

AMMUNITION. A device charged with explosives, propellants, pyrotechnics, initiating composition, riot control agents, chemical herbicides, smoke, or flame, for use in connection with defense or offense, including demolitions. Excluded from this definition are devices charged with chemical agents as defined in JCS PUB 1, and nuclear or biological materiel. Ammunition includes cartridges, projectiles (including missile rounds), grenades, mines, pyrotechnics, propellants, fuzes, detonators, and small arms individually, or having a unit of issue, container, or package weight of 100 pounds or less.

AMMUNITION AND EXPLOSIVES. As used herein, ammunition and explosives include, but are not necessarily limited to, all items of ammunition; propellants, liquid, and solid; high and low explosives; guided missiles; warheads; devices; pyrotechnics; chemical agents; compensate thereof and substance associated therewith presenting real or potential hazards to life and property.

AMMUNITION COMPONENTS. Integral units which are part of a complete round of ammunition. Ammunition components may consist of either inert or explosive loaded parts or both.

AMMUNITION LOT. A quantity of ammunition which has been assembled from uniform components under similar conditions and which is expected to function in a uniform manner. Each ammunition lot is assigned a number.

AMMUNITION LOT NUMBER. The code number that identifies a particular ammunition lot.

BLANK AMMUNITION. Ammunition that consists of a cartridge case with a primer and powder charge, but which does not contain a projectile. Blank ammunition is used for simulated fire, for signaling, and for training exercises.

BLASTING AGENTS. A materiel designed for blasting which has been tested in accordance with section 173.114a of DOT regulations and found to be so insensitive that there is very little probability of accidental initiation to explosion at or near the target rather than the penetrative effect of the explosive container.

BOOSTER. A high explosive element of a warhead or similar explosive device used to initiate the high explosive main charge. The vernacular term "booster rocket" generally means a rocket power plant used to accelerate a missile during takeoff; this name is inadequate for designating a booster rocket because of the unrelated meaning. Missile booster rockets are officially designated as "rocket motors".

<u>CARTRIDGE</u>. A complete round of ammunition in which the primer, propelling charge, and projectile are completely assembled to the cartridge as fixed