



UNITED STATES MARINE CORPS
MARINE CORPS AIR STATION YUMA
BOX 99100
YUMA, ARIZONA 85369-9100

StaO 3574.1C
MTU
5 May 10

STATION ORDER 3574.1C

From: Commanding Officer
To: Distribution List

Subj: STANDARD OPERATING PROCEDURES (SOP) FOR MARKSMANSHIP
TRAINING

Ref: (a) MCO 3574.2K
(b) MCO 3570.1B W/CH 1
(c) MCBUL 8011.4H
(d) MCO 8020.1F
(e) MCO 8025.1B
(f) MCO 5500.6G
(g) MCO 6260.1C
(h) MCO 3500.27B W/ERRATUM
(i) MCO 3591.2J W/Ch 1
(j) MCRP 3-01A
(k) MCRP 3-01B
(l) Annual Marksmanship Training Program Detailed
Instructor Guide (AMT)
(m) Entry Level Pistol Program Detailed Instructors Guide
(ELP)

Encl: (1) SOP for Marksmanship Training

1. Situation. This manual revises the policies, procedures, and standards for the effective operation of the live fire marksmanship ranges aboard Marine Corps Air Station (MCAS) Yuma. The Marksmanship Training Unit (MTU) is tasked with providing complete support for the qualification, requalification, and training courses of fire for the Marines, Sailors, and selected Department of Defense civilian employees stationed aboard Marine Corps Air Station Yuma.

2. Cancellation. StaO 3574.1B.

3. Mission.

a. The references and this manual provide guidance for the conduct, operation, manning, and functioning of the marksmanship training program. The Range Officer, Marine Corps Air Station

Yuma has overall cognizance of this functional area and will ensure all assets of the program are available to commanders.

b. Recipients of this manual will thoroughly familiarize themselves with the provisions contained herein and will comply with its procedures.

4. Execution. Recommendations concerning the contents of this order and/or changes will be forwarded to the Range Officer.

5. Administration and Logistics.

a. Commanding Officers. Ensure all marksmanship training is coordinated and conducted in accordance with the guidelines contained herein.

b. Marksmanship Training Unit. Conduct a physical check of the perimeter surrounding the Surface Danger Zone (SDZ) to the range area. Report any damage noted during normal working hours to the Installation and Logistics Office at extension 269-2071, and to the Command Duty Officer at extension 269-2252 after normal working hours.

6. Command and Signal. The provisions of this SOP are applicable to all personnel and organizations using the small arms range facility aboard MCAS Yuma, AZ.


M. A. WERTH

RECORD OF CHANGES

Log completed change action as indicated.

Change Number	Date of Change	Date Entered	Signature of person Incorporated Change

5 May 10

TABLE OF CONTENTS

<u>IDENTIFICATION</u>	<u>TITLE</u>	<u>PAGE</u>
Chapter 1	GENERAL.....	1-1
1.	Purpose and Scope.....	1-1
2.	Unit Commander.....	1-1
3.	Officer in Charge (OIC).....	1-2
4.	Range Safety Officer (RSO).....	1-4
5.	Safety.....	1-5
6.	Range Restrictions.....	1-6
7.	Deviations to Regulations.....	1-7
8.	Accident Reporting.....	1-7
9.	Medevac Procedures.....	1-7
10.	Scheduling.....	1-7
11.	Civilians.....	1-7
12.	Corpsman and Safety Vehicle.....	1-7
13.	Environmental Compliance.....	1-8
Figure 1-1	OIC/ RSO Appointment Requirements.....	1-9
Chapter 2	AMMUNITION HANDLING, MALFUNCTIONS AND EXPLOSIVES.....	2-1
1.	Transportation of Ammunition & Explosives.....	2-1
2.	Ammunition Handling & Storage.....	2-1
3.	Ammunition Control.....	2-2
4.	Modifications to Ammunition & Explosives.....	2-4
5.	Defective Ammunition.....	2-4
6.	Malfunction Reports.....	2-4
7.	Explosive Ordnance Disposal (EOD).....	2-5
8.	Duds.....	2-5
9.	Mis-Fires and Hang-Fires.....	2-5
10.	Chemical Munitions.....	2-6
11.	Riot Agents, Smoke, and Other Obscuration Materials.....	2-6
12.	Rounds Fired Off-Range.....	2-6
Chapter 3	DUTIES AND RESPONSIBILITIES FOR THE MARKSMANSHIP TRAINING UNIT.....	3-1
1.	Organization.....	3-1
2.	Mission.....	3-1
3.	Objectives.....	3-1

5 May 10

TABLE OF CONTENTS

<u>IDENTIFICATION</u>	<u>TITLE</u>	<u>PAGE</u>
4.	Information.....	3-1
5.	Range Officer.....	3-3
6.	Range Chief.....	3-4
7.	Staff Non-Fire.....	3-5
8.	Line Staff Noncommissioned Officer.....	3-6
9.	Combat Marksmanship Instructors.....	3-8
10.	Tower Noncommissioned Officer.....	3-9
11.	Pit NCO.....	3-10
12.	Assistant Pit NCO.....	3-11
13.	Block NCO's.....	3-11
14.	Combat Marksmanship Coach (CMC).....	3-12
15.	Police Sergeant.....	3-12
16.	Ammunition NCO.....	3-13
17.	Armorer.....	3-14
18.	Corpsman.....	3-14
Chapter 4	ANNUAL MARKSMANSHIP TRAINING REQUIREMENTS.....	4-1
1.	General.....	4-1
2.	Administrative Instructions.....	4-1
3.	Personnel Requirements for the Operation of Rifle Ranges.....	4-1
4.	Annual Rifle Qualification Course.....	4-2
5.	Personnel Requirements for the Operation of the Pistol Ranges.....	4-2
6.	Annual Pistol Qualification Course.....	4-3
7.	Special Courses of Practice Firing.....	4-3
8.	Unit Level Training.....	4-3
Chapter 5	RANGE SAFETY REGULATIONS.....	5-1
1.	General.....	5-1
2.	General Safety Regulations and Responsibilities.....	5-1
3.	Firing of Non-service and Privately Owned Weapons.....	5-3
4.	Vehicles on the Range.....	5-4
5.	Rifle Range Regulations.....	5-4
6.	Pistol Range Regulations.....	5-6
7.	Post Exercise Actions.....	5-7
8.	Fire Procedures.....	5-8

TABLE OF CONTENTS

<u>IDENTIFICATION</u>	<u>TITLE</u>	<u>PAGE</u>
9.	Blanks.....	5-9
10.	Weapons Malfunctions.....	5-9
11.	Ammunition Malfunctions.....	5-9
12.	Special Effects Small Arms Marking System (SESAMS).....	5-10
APPENDIX A	MCAS YUMA OPERATIONAL RISK MANAGEMENT WORKSHEET.....	A-1

Chapter 1

General

1. Purpose and Scope

a. General. This Manual prescribes the regulations and general precautions to be taken in the firing and other use of live ammunition at the Rifle and Pistol ranges at Marine Corps Air Station, Yuma, Arizona.

b. Purpose. The primary purpose of this Manual is to ensure a safe and realistic training environment. Nothing contained in these regulations will be construed as permitting live fire or other training activities that endanger life or property.

c. Failure to comply with these regulations may subject the offender to administrative action or disciplinary action under the Uniform Code of Military Justice.

2. Unit Commander

a. General. The unit commander shall ensure compliance with this Manual, directives in the MCO 3570 series, applicable Technical Manuals I, field manuals (FM), and Marine Corps Warfighting Publications (MCWPs), installation range guidance, and applicable SOPs for the safe training and firing of weapon(s) system within his/her command. The unit commander is ultimately responsible for the training conducted within his/her unit.

b. Briefings. The unit commander shall ensure all personnel within the command are briefed on installation range procedures and safety requirements including required protective equipment.

c. OIC and RSO Designations. The unit commander shall designate an OIC and RSO in writing for training events per the provisions listed in figure 1-1 and reference (a), to include the following (but not limited to):

(1) Personnel are competent and properly instructed in the performance of their duties.

(2) Personnel are knowledgeable in the weapon systems, use safe ammunition handling and accountability procedures.

5 May 10

(3) Personnel properly instructed in applying risk management and developing controls and procedures for all phases of training.

d. Operational Risk Management (ORM). The unit commander applies risk management and review risk assessments for all training events. An ORM Worksheet for both Rifle and Pistol ranges has been completed (Appendix A).

e. OIC and RSO Requirements. Ensure OICs and RSOs meet the requirements listed in directives in the MCO 3570 series, and highlighted as follows:

(1) Must be competent and have been properly instructed in the performance of their duties, as well as having satisfactorily completed the Marine Corps Air Station Yuma Range Safety Certification Program.

(2) Must be knowledgeable in the weapon system for which they are held responsible, and in safe ammunition accountability, handling, and use procedures.

(3) Must apply risk management controls and procedures to ensure the safety of all participants.

f. Certification Process. Personnel nominated to fill the billets of RSO or OIC must complete the following process:

(1) The unit commander shall submit a roster of personnel nominated to the Range Operation Control Center (ROCC).

(2) Nominated personnel will then attend and successfully pass an installation range safety course scheduled by the ROCC.

(3) ROCC will send a list of Marines to the unit commander that have successfully completed the installation range safety course.

(4) The unit commander will designate in writing personnel to fill the billets of RSO and OIC. A copy of this signed letter must be submitted to ROCC in order to approve training area or range requests.

3. Officer in Charge (OIC)

5 May 10

a. Qualifications. The OIC must meet the requirements listed in figure 1-1 for the specific training event. OICs will be certified in the weapon systems for which they are responsible and will comply with the duties and responsibilities outlined in reference (b). He/she must be capable of influencing the conduct of the event and shall be physically present at the training site.

b. Training. In addition to weapon system training, OICs will attend a installation range safety course given by the ROCC.

c. Duties. The OIC is responsible for the enforcement of applicable safety regulations contained in this Order, directives in the MCO 3570 series, and other applicable field, technical, and ordnance publications to include, but not limited to:

(1) Appoint and instruct range guards and other safety personnel as required.

(2) Review the detailed Operations Risk Management (ORM) worksheet signed by the unit commander that covers all phases of training.

(3) Prior to going hot, he/she will contact the ROCC at (928) 269-6830 and report the following information:

(a) Training area/range being used

(b) Firing Unit designation

(c) Name and rank of OIC, RSO, and Corpsman

(d) Number of personnel

(e) Type of training

(f) Type of ordnance and weapon system

(4) In the event of a MEDEVAC, the OIC will:

(a) Ensure first aid is rendered.

(b) Contact the ROCC and report the time and location, nature of accident, and assistance required.

5 May 10

(5) Ensure all personnel have been briefed on sensitive and critical natural resources associated with the scheduled training area/range prior to conducting live fire. Refer to StaO P3710.6 Range Regulations for environmental resource compliance information.

(6) Read and comply with the instructions within this order and the references.

(7) Ensure all trash and brass is removed from the range after completion of training.

(8) Ensure all personnel and equipment are accounted for and range inspection has been completed by MTU personnel prior to departing the range or training area.

(9) At the completion of training, contact the ROCC and pass the required information for completed training.

4. Range Safety Officer (RSO)

a. Qualifications. RSOs must meet the requirements listed in figure 1-1 for the specific training event. Per reference (a), RSOs will be certified in the weapon systems for which they are responsible. The RSO holds the responsibility and accountability for all operational matters pertaining to the conduct of the activity and the adherence to governing regulations and guidance. He/she must be competent and capable to fully influence the conduct of the event. **THE RSO WILL NOT BE ASSIGNED OTHER DUTIES NOR FIRE A WEAPON.**

b. Training. In addition to weapon system training, OICs will attend a installation range safety course given by the ROCC.

c. Duties. The RSO is responsible for the enforcement of applicable safety regulations contain in this order, directives in the MCO 3570 series, and other applicable field, technical, and ordnance publications to include, but not limited to:

(1) The RSO will have a copy of the applicable portions of this order in his possession at all times.

(2) Ammunition accountability. Procedures for ammunition accountability are listed in chapter 2 of this order.

5 May 10

(3) Ammunition Malfunction Reports. Procedures for malfunction reports are listed in chapter 2 of this order.

(4) Maintain two forms of communication at all times with the ROCC. When the range is firing and communication is lost, the RSO will order a cease-fire until communication is re-established.

(5) RSOs of Explosive Ordnance Disposal Range shall follow the Station Explosive Ordnance Disposal Standard Operating Procedures (Short title: EOD SOP) for use.

(6) A detailed RSO Checklist will be provided to assist the RSO. Note: Checklist is a guide, and while detailed, is not all encompassing.

(7) Read and comply with the instructions of this order and the references.

(8) Ensure all live-fire evolutions are conducted safely, observing all range control measures (i.e., limit markers, limits of advance, azimuths of fire, charges, surveyed firing positions, etc.) as delineated in this Manual, references, and applicable FMs/TMs.

(9) Review the ORM and ensure a copy is available during the training event for reference.

(10) Maintain surveillance of firing and personnel within the entire surface and vertical hazard space of the assigned range.

(11) Ensure Corpsman is briefed on his/her responsibilities and is placed in a position to react quickly to emergencies. Ensure a safety vehicle is designated and has a clear passage to enter/exit the training area if needed.

5. Safety

a. Safety is the responsibility of every individual at all times and is a key factor to successful training. Concerns for safety, however, should never be limited to the training event itself, but should always include associated activities as well; including convoy movement to and from training, maintenance activities, etc.

5 May 10

b. Any individual who observes an unsafe condition shall report this immediately to the chain of command. A training event or any other activity may be halted until the unsafe condition has been corrected. Anyone has the option to call "cease-fire". The greatest danger to life and limb is associated with live-fire. Strict adherence to this order is required.

c. Where conflicts occur with safety instructions contained in Field and Technical Manuals, the provisions of directives in the MCO 3570 series govern.

d. ORM shall be employed during all facets of training activities.

6. Range Restrictions

a. General. Firing will be conducted on authorized ranges only. The use of blank ammunition and Special Effects Small Arms Marking Systems (SESAMS) may be authorized on the ranges and in the training areas on a case-by-case basis. Units must identify on the training area request/range request their intent to use these munitions.

b. Chemical training will only be done in approved training chambers. The use of chemical training ammunition on live fire ranges is not authorized without the express written consent of the installation commander. This is to ensure strict compliance of environmental concerns and safety to non-participants.

c. Personnel must be approved access to live fire ranges or training areas.

d. Privately Owned Vehicles (POVs). POVs are prohibited on all live-fire ranges and may be authorized in training areas on a case-by-case basis. Written authorization will be given by the ROCC after a detailed brief covering the limits of use.

e. Privately owned weapons are not authorized on ranges or training areas without special permission. Submit requests to the ROCC or MTU OIC two weeks in advance.

f. Carrying military weapons to and from any range in POVs is not authorized without organizational commander's approval.

5 May 10

g. Physical Training. Unit PT or recreational activities in training areas shall be scheduled via the Range Scheduling Office. This includes individual PT.

h. Alcohol. Alcohol is not allowed on ranges or in training areas.

i. Lasers or laser designation devices are only authorized on ranges certified to use lasers. Refer to StaO 3710.6 for detailed information.

j. See Chapter 5 for amplifying range safety requirements.

7. Deviation to Regulations. Requests for deviations to the provisions contained in the order should be addressed to the Commanding Officer, MCAS Yuma via Director of Range Management no less than thirty (30) working days prior to the planned event.

8. Accident Reporting. In the event an accident occurs on a range or training area, a report will immediately be made to the ROCC by telephone. Units will also inform the Station Duty Officer. When ordnance material is involved, the accident will also be reported to Air Station Ordnance Officer as appropriate.

9. Medevac Procedures. Medevac procedures are provided on a checklist aboard the range facility.

10. Scheduling. Annual Marksmanship Training takes priority on all live fire ranges. Units will submit a range request in order to schedule live fire ranges a minimum 10 days in advance.

11. Civilians. Units must request in advance the approval for civilians to either participate or observe training events. Per MARADMIN 436-01, units must obtain approval from Headquarters Marine Corps, Plans, Policy, and Operations (HQMC PPO). Civilian personnel will be approved on a case-by-case basis.

12. Corpsman and Safety Vehicle. A corpsman (or civilian equivalent for non-military units) with sufficient life saving equipment shall be present on all ranges and training areas, unless specifically excluded in this Manual. He/she shall not be assigned any additional duties when live-fire or field training is in progress. The term "live-firing" includes any caliber of ammunition, hand or rifle grenades, demolitions, or any ordnance capable of producing an explosion or high rate of burning. Additionally, a vehicle designated as a safety vehicle

5 May 10

shall be located at all ranges and training areas during training. Whenever possible, this vehicle should be an ambulance. The presence of one corpsman and one safety vehicle is the minimum requirement.

a. Corpsman shall respond to injuries and accidents as directed by the RSO.

b. When the Corpsman is required to respond to an incident, the training event will be stopped so that the injured person(s) can be assessed and medevac procedures followed (if necessary).

13. Environmental Compliance. Unit Commanders, OICs, and RSOs shall comply with the requirements listed in Air Station Order P3710.6.

5 May 10

Event	OIC 1			RSO 1		
	OFF	WO	NCO	OFF	WO	NCO
Smoke/Chemical Agents (2)	X	X	E-6	X	X	E-6
Sub caliber training devices; practice hand grenades; laser devices; firing devices; simulators and trip flares; small arms; and machine guns	X	X	E-6	X	X	E-5
Aerial gunnery & air defense weapons; flamethrowers; practice and live grenades, grenade launchers, and grenade machine guns; live mines and demolitions; tank & fighting vehicle cannons; and recoilless rifles	X	X	E-7	X	X	E-6
Live-fire exercises using organic weapons, squad through company, battery, and troops	X	X	E-6	X	X	E-6
Paradrops (3),(4)	X	X	X	X	X	E-6
Rappelling/HRST (4),(5)	X	X	X	X	X	E-6
Training Areas w/o Blanks/munitions (4)	X	X	X	X	X	E-6
Helicopter Support Team (HST) Operations (4),(5)	X	X	X	X	X	E-5
EOD Operations			E-6			E-6
Special Effects Small Arms Marking System (SESAMS) (4),(5)	X	X	E-7	X	X	E-6
Steel Reactive Targets (SRT) (7)	X	X	E-6	X	X	E-6
<p>1. Civilians in the grade of GS-07 or above may act as OIC; and GS-05 or above or equivalent for RSO. Designated civilians for non military organizations (i.e., gun clubs) shall complete an approved National Rifle Association pistol/rifle course or equivalent (as determined by the RCO) prior to attending a Range Safety Certification Course.</p> <p>2. The OIC and RSO shall be nuclear, biological, and chemical (NBC) qualified when conducting NBC training.</p> <p>3. Must be a certified jumpmaster per MCWP 3-1.</p> <p>4. Must receive a Training Area Brief from ROCC.</p> <p>5. Must be a qualified HRST Master.</p> <p>6. Specific RSO certification is required when training with Special Effects Small Arms Marking System (SESAMS) as outlined in TECOM Safety of Use Memorandum (SOUM) 1-02. OIC/RSO grade requirements may not be reduced.</p> <p>7. Specific RSO certification is required when training with Steel Reactive Targets (SRT) as outlined in TECOM Safety of Use Memorandum (SOUM) 2-02.</p> <p style="text-align: center;">Figure 1-1.--OIC/RSO Appointment Requirements</p>						

Chapter 2

Ammunition Handling, Malfunctions and Explosives

1. Transportation of Ammunition & Explosives

a. General. MCO P4400.15 and MCO P8020.10 govern policies and procedures associated with the use, storage, and accountability of ammunition and explosives.

b. Qualified Drivers. Drivers of any vehicle transporting ammunition or explosives aboard MCAS Yuma or its ranges shall meet specific administrative and medical criteria per MCO P8020.10.

c. Privately Owned Vehicles (POV). Using POVs aboard MCAS Yuma to load, store, or transport ammunition, pyrotechnics, or explosives of any kind for military training is prohibited. Authorized users of range areas dedicated to recreational firing are permitted to transport a reasonable amount of small arms ammunition when enroute to and from those activities.

2. Ammunition Handling & Storage

a. General. Ammunition will be supplied as indicated below. Detailed information is contained in MCO P8020.10.

(1) Units **must contact** the MCAS Yuma Explosive Safety Officer if transporting ammunition from off-station.

b. Ammunition Supply

(1) The Marksmanship Training Unit will supply ammunition for annual marksmanship training and competitions as required by references (a) and (j).

(2) The firing unit shall supply ammunition for organizational and recreational firing.

c. Firing Sites

(1) Ammunition at firing sites shall be positioned to minimize the possibility of accidental ignition, explosion, or detonation. Ammunition shall be staged in a dry place; and protected from inclement weather and the direct rays of the sun.

5 May 10

(2) Matches, cigarette lighters, or other spark-producing items shall not be in or near an explosive area.

(3) Precautions shall be taken to prevent ammunition from contacting the ground or spark-producing substances (for example, placing the ammo on the pallets provided upon delivery will prevent the ammunition from ground contact).

(4) Ammunition or pyrotechnics will not be pre-positioned at firing sites without the express written consent of the ROCC.

(5) Field Ammunition Supply Points. Units authorized to keep ammunition overnight in training areas will maintain security and separation from personnel at all times.

3. Ammunition Control

a. The following ammunition control procedures shall be observed.

(1) Supervisory personnel shall be present with the vehicle/convoy designated to pick up or return ammunition from or to the Ammunition Supply Point (Station Weapons).

(2) All ammunition shall be delivered to the RSO of the range/firing site. The RSO shall conduct a joint physical and visual inventory of the ammunition received with the designated personnel delivering the ammunition. The RSO shall compare this against what is reflected on the issue document (DD Form 1348-1A). The RSO shall open all containers which are not factory-sealed, and physically/visually inspect the ammunition to ensure it corresponds with the ammunition type on the issue document.

(3) The RSO shall receipt for the ammunition by signing the DD Form 1348-1A and entering the quantity received by DODIC, document number and lot number on the Expenditure Report (NAVMC 11381) upon completing the inventory. The Expenditure Report shall remain on the range/training area with the RSO at all times.

(4) The RSO is ultimately responsible for the accountability of ammunition and shall supervise the issue and control of ammunition for the duration of the exercise. He/she shall ensure ammunition is not removed from the original packing until just prior to firing and ammunition not containing a factory seal shall be expended first.

5 May 10

(5) The RSO shall take measures to prevent ammunition from being rendered unserviceable, in the event the exercise is terminated prematurely, by not removing excessive quantities of ammunition from its original packaging, losing lot number identity, burning, or otherwise destroying containers or exposing items to the weather, etc. Ammunition shall not be removed from the confines of the range except as authorized by proper authority.

(6) The RSO shall account for all ammunition as it is expended on the firing range. Upon completion of the exercise, the RSO shall ensure all unexpended ammunition is inventoried, verified, and annotated on the turn-in document (DD Form 1348-1) and the Expenditure Report with the RSO's signature. If any ammunition is found missing during the inventory, the using unit shall submit a Missing, Lost, Stolen, or Recovered (MLSR) Report to the ROCC office immediately.

(7) The RSO shall complete the Expenditure Report (NAVMC 11381) and any turn-in documents (DD Form 1348-1A) prior to securing from the range, per MCO P4400.150E. A copy of the expenditure report shall be given to range personnel.

(8) The OIC shall report the number of rounds expended when calling the ROCC to report the range is "cold".

(9) Ammunition shall never be abandoned, destroyed, fired indiscriminately, buried, or otherwise disposed of in order to circumvent the inconvenience of returning the items to a storage area. Units discovering abandoned or buried ammunition shall notify the ROCC immediately.

(10) Ammunition will not be staged overnight without written consent from the Director of Range Management Department. If approved, units will post guards and maintain contact with the Provost Marshal's office.

(11) A guideline for handling and storing ammunition and explosives on ranges is provided in the USMC Range Safety Pocket Guide, page 7. This info is also available in MCO 3570.1B and DAPAM 385-63.

(12) All ammunition items to support EOD operations will be handled by qualified EOD personnel.

5 May 10

(13) Blank and live ammunition shall be physically segregated at the storage and distribution sites on the range.

(14) Issuing blank and live ammunition at the same time is prohibited.

(15) Storing ammunition in a billeting area is prohibited. Units will set up storage areas away from personnel staging areas.

4. Modifications to Ammunition and Explosives

a. Modification or "fixing" ammunition is not authorized.

b. Mixing or combining two or more separate DODICs into a single mention is prohibited, unless the DODICs were designed to be integrated (e.g., CS capsules or loose CS powder will not be introduced into smoke grenades in order to generate a smoke/CS cloud).

5. Defective Ammunition. Defective ammunition shall not be expended. Every round of ammunition which malfunctions, or does not fire as it is designed shall be reported. MCO 8025.1D establishes reporting requirements and time frames. The Explosive Safety Officer and Station Weapons Officer (if the ammunition was drawn from MCAS Yuma) shall receive copies of all reports, through the appropriate chain of command.

6. Malfunction Reports. Detailed malfunction reporting requirements and exceptions are contained in MCO 8025.1D. Duds, hang-fires and mis-fires should be considered malfunctions for the purpose of reporting.

a. In the event of a malfunction, training units shall submit a malfunction report by Naval message within 24 hours of the malfunction if an injury or fatality occurs.

b. If no injury has occurred, report malfunctions within 96 hours.

c. The RSO will make the additional notifications:

(1) ROCC at (928) 269-7080

(2) Range Officer

5 May 10

(3) Ammunition Supply Point (ASP) that issued out the ammunition.

d. The malfunction shall be reported to the MCAS Yuma Explosive Safety Officer (928-269-3611) with a copy of the report faxed to the Explosive Safety Office as soon as possible.

e. A copy of the malfunction report form and the data collection information can be obtained through the Station Ammunition Supply Point. The RSO is responsible for collecting this information and passing on to his/her command for action.

7. Explosive Ordnance Disposal (EOD). The mission of EOD is to remove explosive ordnance hazards posing a threat to personnel, equipment, material, and the installation, which are beyond the capability of other MOSs in the Marine Corps. EOD will provide appropriate technical assistance to units requesting assistance. EOD is not available or responsible for the routine transportation of ammunition and explosives. EOD assistance is available on a 24-hour basis. The EOD office can be contacted during normal hours at (928)269-2788.

8. Duds. A dud is ammunition, of any caliber or weight, that has been fired, placed, dropped, thrown or launched, but which fails to function as designed. Duds occurring within dedicated impact areas or those found outside an impact area, or in a training area, shall be reported to the ROCC immediately. An exact, clearly marked location of the dud is required, a guide made available, and all personnel cleared of the immediate area. Do not disturb a dud in any manner.

9. Mis-Fires and Hang-Fires

a. A misfire is defined as the failure of a primer or the projectile propelling charge to function. Misfires will be handled as follows.

(1) The firing unit will immediately advise the ROCC of the situation and request EOD support when misfire procedures are unsuccessful. Misfires will be removed per the provisions of the appropriate weapons technical manual.

(2) All misfire procedures shall be completed on the range.

b. Unserviceable Ammunition. Unserviceable ammunition removed from the range, as a result of misfires, including small

5 May 10

arms ammunition, will be returned to the Station Ordnance Area or location of issue and processed similarly to other Condition Code H material.

10. Chemical Munitions. Chemical munitions are defined as an agent or munitions, which, through its chemical properties, produce lethal or other damaging effects on human beings. Live chemical munitions shall not be used for training purposes. The term does not include riot agents, chemical herbicides, smoke, and other obscuration materials.

11. Riot Agents, Smoke, and Other Obscuration Materials

a. General. Riot agents, smoke, and other obscuration materials shall be used only during scheduled training, per the provisions in applicable technical manuals and directives. Since improper use may result in serious injury, fatalities, or fires, units shall use appropriate caution.

b. Chlorobenzylmalonitrile (CS). When Chlorobenzylmalonitrile (CS) is used in conjunction with scheduled training, ensure non-toxic vapors are not employed under conditions which are dangerous to personnel, wildlife, or property in adjacent training areas, or outside of the boundaries of the range training areas. The intent to use CS shall be specified when scheduling training areas.

12. Rounds Fired Off-Range. Rounds fired off-range shall be immediately reported to ROCC. This requirement complies with the 1997 Military Munitions Rule amendments to the Resource Conservation and Recovery Act. If a munition lands off-range, and is not promptly rendered safe or retrieved, the munition becomes a solid and hazardous waste, and any imminent and substantial threats shall be addressed. If remedial action is not feasible, the Range Control Officer will maintain a record of the event for as long as the threat remains. The record shall include the munition type (DODIC and nomenclature) and locations (to the extent the location is known).

5 May 10

Chapter 3

Duties and Responsibilities for the
Marksmanship Training Unit

1. Organization. Marksmanship Training Unit (MTU) is a unit within Headquarters and Headquarters Squadron, MCAS Yuma. The Range Officer (RO) is responsible for range operations. Range staff includes both permanent and Fleet Assistant Program personnel. A RO will be assigned, who is a Chief Warrant Officer, with a primary MOS of 0930 (Range Officer). This Marine is professionally trained in all aspects of range operations, weapons, and marksmanship training. Assisting the RO will be a SNCO who should hold the MOS of 0931 (Combat Marksmanship Trainer) to perform the duties of range SNCOIC.

2. Mission. The MTU is responsible for the operation of the range complex facilities during Marine Corps Combat Marksmanship Program (MCCMP) training and provides personnel to conduct the Annual Rifle Marksmanship (ARM) Program and Entry Level Pistol (ELP) marksmanship training program, and allows for the training of the MCAS Yuma Rifle and Pistol Teams.

3. Objectives. The objectives of the MTU are:

a. To provide Marines with quality instruction and practical application in rifle and pistol marksmanship.

b. To develop in every Marine the confidence, knowledge, and skills required to meet the qualification/requalification standard as set forth by the Commandant of the Marine Corps.

c. To ensure the Marine/Sailor can apply the correct techniques of marksmanship when missions dictate.

d. To ensure that every Marine maintains a continuing degree of proficiency in the application of the principles of marksmanship.

e. To develop and maintain a cadre of Marines with high skills in rifle and pistol marksmanship to serve as marksmanship instructors, coaches, and range operation personnel.

4. Information. These standard operating procedures are directive in nature and applicable to all Marines assigned to MTU.

5 May 10

a. The range conducts approximately 25 rifle and 13 pistol details per fiscal year. The number of personnel assigned to each command aboard the Air Station determines quotas for each detail required to qualify/requalify. Range personnel tabulate, archive, and release all record scores for each detail. The SquadronBul 3574, released in September of each year, covers the detail schedules and quotes for every fiscal year.

b. Effective range operations require trained and qualified personnel. Individuals with advanced marksmanship training should be selected for range duty whenever possible. Marine Corps Competition-in-Arms experience is a desirable attribute for selection and assignment of range personnel. Personnel responsible for individual marksmanship training must be thoroughly familiar with applicable range and safety regulations. Furthermore, the duties and responsibilities assigned in subsequent chapters must be fulfilled. During periods when insufficient qualified personnel are available, the RO must take steps to qualify staff or adjust training as required.

c. Effective and safe range operations require properly maintained range facilities and equipment. Refurbishments must be programmed on a continuing basis and must be a RO's priority.

d. Reference (a) applies to qualification/requalification requirements. It provides the standards for who is required to attend marksmanship training, waiver criteria, weapons, courses of fire, and scoring.

e. Personnel must attend preparatory marksmanship training/safety instructions. Preparatory marksmanship instruction for both rifle and pistol is conducted by a Combat Marksmanship Trainer the week prior to each scheduled rifle range detail and the 1st day of each pistol range detail.

f. Uniform and equipment required to qualify with the rifle at a minimum are: complete utility uniform, service rifle, web sling, cartridge belt, three magazines, magazine pouch, data book, hearing protection, flack jacket, and helmet.

g. Uniform and equipment required to qualify with the pistol are: complete utility uniform or flight suit, service pistol, two magazines, cartridge belt, holster, magazine pouch, and hearing protection.

5 May 10

h. Shooters are authorized and encouraged to bring eye protection, shooting gloves, and approved sight-darkening aids. **Eye patches are not authorized.**

i. Personnel who are designated to qualify on the Station Range will report to Bldg P-40 MTU for mandatory preparatory training at times set forth in SquadronBul 3574. Personnel who do not attend or miss any portion of the required training will not be allowed to fire and thus be dropped from that detail.

5. Range Officer. The Range Officer holds the MOS of 0930 and is responsible for all operations aboard the Rifle Range and the Pistol Range. The duties include, but are not limited to, ensuring all Marksmanship Training to include live firing is conducted in accordance with published directives and executing the duties as outlined below:

a. Enforce range safety regulations per reference (a) and this order.

b. Assign range instructors/supervisory personnel to effectively conduct marksmanship and support the mission of the unit.

c. Ensure that all enlisted personnel reporting for duty involving marksmanship training attend the appropriate marksmanship training certification course. Marines must complete Combat Marksmanship Coach course (CMC) prior to being assigned any duties as an instructor or Block NCO.

d. Ensure that all marksmanship training is being conducted in accordance with all references (a) through (h).

e. Require compliance with all range regulations and established policies.

f. Provide guidance for the conduct of range firing and marksmanship training.

g. Establish liaison with commanders of all organizations utilizing the range facilities.

h. Ensure records are maintained to support submission of required reports.

i. Prepare reports required by higher headquarters.

5 May 10

j. Ensure that all shooters, support personnel, and range personnel are briefed on the operations of the range, safety regulations, and procedures.

k. Supervise the operation of ranges in accordance with reference (a).

l. Authority to cease-fire at any time it is deemed necessary.

m. Supervision and control of all range property, ammunition, supplies, police and maintenance.

n. Discipline of personnel who fail to comply with safety regulations in the following manner:

(1) The Range Officer will correct minor safety violations. Major violations will be reported to the Director of RMD.

(2) Repeated and/or serious violations such as a negligent discharge will be reported to the individuals parent command, Commanding Officer.

o. Publishes the Station Bulletin for Marksmanship Training.

6. Range Chief. The Range Chief will be directly responsible to the Range Officer in the execution of all duties. He/she will use their experience and expertise to assist the Range Officer in the operations of marksmanship training. The Range Chief will not deviate from training schedules or from references (a) through (i) without consent from the Range Officer. Specifically, the Range Chief is responsible for the following:

a. Fills in as the Range Officer with regards to decisions concerning the execution of marksmanship training and range safety during live fire operations.

b. Fills the billet of OIC during all live fire training. Ensures Range safety regulations are adhered to.

c. Coordinate all range requests and schedules to support the mission of this organization and unit requirements.

5 May 10

d. Ensure that all ranges are organized and operating in accordance with the directives and MCO's.

e. Provide technical advice and recommendations on matters pertaining to marksmanship training and training ranges.

f. Assume responsibility for all personnel assigned to MTU.

g. Provide recommendations on the assignment of personnel.

h. Responsible for logistical and maintenance support.

i. Oversee the compliance of this SOP in regard to handling of ammunition.

j. Maintains the CMR account through Station Property as well as a local CMR as needed.

7. Staff Non-Fire. The Staff Non-Fire for the rifle range is responsible to the range OIC/SNCOIC for the orderly accountability, movement and conduct of all unit personnel.

a. Muster with MTU OIC or SNCOIC on day one of preparatory training at MTU classroom for briefing.

b. Conduct muster of unit personnel at armory each day. Staff Non-Fire must obtain roster from the unit S-3 prior to day one of preparatory training.

c. Inform MTU OIC/SNCOIC and unit of no shows/drops.

d. Submit unit chow request to mess hall NLT 1200 Friday prior to range week (Must physically take request to mess hall).

e. Pick up requested chows at mess hall daily and issue to Marines during muster at armory each morning.

f. Ensure ALL shooters who draw weapons from H&HS armory and MAG-13 armory are marched in formation to and from the armory and classroom/snap-in area during preparatory training. Those shooters drawing weapons from a different armory may have their weapons transported to the classroom via government vehicle only and reissued on site.

g. Ensure ALL shooters comply with authorized transportation procedures by loading the buses at the armory

5 May 10

with weapon and required ear protection prior to designated time.

h. Any shooter disciplinary issues that occur while aboard the range and/or classroom will be turned over to the Staff Non-Fire for action.

i. Appointed place of duty during live fire training is on the range, NO EXCEPTIONS.

8. Line SNCO. The Line SNCO for the rifle range must be thoroughly familiar with references (a) through (h). He/she assists the Range Officer in the execution of the marksmanship training program. The Line SNCO must be thoroughly familiar with the duties of all other range personnel. In addition, the Line SNCO is responsible for, but not limited to:

a. Supervise personnel undergoing live fire training on the rifle range to include instruction, safety briefing, and all firing. Supervise all safety procedures and regulations described herein.

b. Ensure that personnel assigned to key billets (Tower NCO, Block NCO) thoroughly understand their duties and responsibilities and that they perform per the references and this instruction.

c. Weapons and ammunition security. Ensure personnel undergoing training maintain positive control of their weapon and ammunition at all times. In the event that a Marine reports missing ammunition, the Line SNCO will not continue with live fire operations until a thorough search has been conducted. The MTU Chief and Range Officer will be notified immediately.

d. Ensure the return of excess ammunition to the ammunition technician takes place and that all shooters and range personnel undergo a 'shake down' prior to leaving the range.

e. Ensure a target and relay assignment roster is filled out for the current and following weeks' firing details.

f. Supervise the Block NCO's and coaches during the following checks prior to the day's firing:

(1) Bolt and Bore Check

(2) User Serviceability inspection

5 May 10

(3) Function Check

(4) Lubrication and cleanliness inspection.

g. Ensure weapons handling procedures are being followed and enforced, as well as adherence to tower commands.

h. Maintain watch during flight operations for low flying aircraft.

i. Ensure that working parties have the necessary materials and safety equipment in order to perform the prescribed task.

j. Ensure that range personnel follow proper shakedown procedures. Notifies the RSO when shakedown has been accomplished for Marines undergoing live fire training and range personnel.

k. Ensure range is maintained in a good state of police at all times. Secures smoking areas as necessary to ensure their cleanliness.

l. Weapons Drops. On practice days, if a weapon is found to be unserviceable, the weapon will be cleared and removed from the firing line and marked with the appropriate yellow tag indicating the discrepancy and the results of test fire (if applicable). If the weapon can be fixed and returned to the range on subsequent relays the Marine will be given the opportunity to re-fire. If the weapon can be fixed and returned to the range the following day, then the Marine may continue to fire with the detail. If a new weapon is issued, the Line SNCO will ensure that the Marine receives an opportunity to fire through the course of fire at least twice prior to attempting qualification.

m. Sighter shots. The Line SNCO will ensure that Marines that have had maintenance done to the weapon, which may cause a change in the true zero, will receive sighter shots.

n. Ensure range operations are conducted in a decisive manner. Training will be to standard and not to time.

o. Any shooter that stops firing during the course of fire on qualification day, will not advance until he/she finishes from the point they left off.

5 May 10

p. Shooters that become disruptive or argumentative will be removed from the firing line and counseled away from the other Marines.

q. Maintain situational awareness of all activities occurring on and within the areas around the rifle range.

r. Required to brief the corpsman on his/her responsibilities on the firing line. Will ensure that the corpsman is watchful of shooters during periods of inclement weather (extreme heat/cold).

9. Combat Marksmanship Trainer (CMT). Supervise the marksmanship training for units during Table 1 and Table 2 training. They are further responsible for the following:

a. Preparation and delivery of lectures to shooters as outlined in references (g) and (f).

b. Identify weak/problem shooters and inform range personnel upon arrival.

c. Assist Block NCO's and coaches in their duties. Develop a "team" concept to enhance marksmanship training.

d. Assist weak shooters on the firing line.

e. Refer problem shooters to the Line SNCO via Block NCO.

f. Maintain the Training Aids for Rifle and Pistol Instruction.

g. Coordinate with the Range Chief the necessary assistant instructors to provide instruction. Prior to the start of training, ensure all personnel are briefed on their responsibilities and have the necessary equipment on hand to support the training (i.e. firing lines, snap-in barrels, snap-in commands, audio equipment, weapons handling test cards, etc..)

h. Ensure that the training area is prepared/set-up. This includes training aids and head facilities (as required).

i. During periods of extreme heat/cold, the CMT will ensure that shooters are afforded the opportunity to be removed from the conditions for short periods of time. This may be limited

5 May 10

due to the available training areas and may instead require frequent breaks instead.

j. Ensure that ALL shooters are briefed that the Staff Non-fire from each unit will advise senior Marine present to form the shooters into a formation to return weapons to the armory at the completion of snap-in classes. **NO WEAPONS WILL BE ALLOWED IN POV'S FOR SERGEANT AND BELOW.**

10. Tower NCO. The Tower NCO is responsible to the Range Officer for the safe, efficient operation of the firing line.

a. He/she is the line public address (PA) system operator and gives all commands during firing.

b. Must be capable of dealing with firing line problems/issues in a calm and orderly manner. The attitude expressed over the PA system and the smooth transition from one phase to the next has a direct affect upon shooter performance; therefore, a calm, professional, and knowledgeable NCO should be selected. Specifically, the Tower NCO shall:

(1) Assist the Line SNCO in the performance of his/her duties.

(2) Announce the safety brief to all shooters prior to live firing. The safety brief will be given verbatim.

(3) Announce all commands in a clear, concise manner.

(4) Remain alert for safety violations, to include aircraft over flights, and announce cease-fire when personnel or aircraft are in danger.

(5) Maintain two-way communication with both Range Control and the pits during all firing. Immediately cease-fire and inform the RSO if communication is lost.

(6) Ensure that shooters are not permitted to talk to the pits on record day. Any and all situations requiring assistance by the pits will be handled by range personnel only.

(7) Control movement of personnel on the range.

(8) Perform preventative maintenance and operational inspection on the communication system.

5 May 10

11. Pit NCO. A firm, conscientious, qualified NCO should be assigned this billet. The Pit NCO should have strong leadership skills and the ability to motivate personnel. The Pit NCO shall:

- a. Maintain supplies necessary for operation of the pits.
- b. Supervise all personnel assigned to the pits.
- c. Give pit commands for practice and qualification firing.
- d. Ensure pit-to-line communications are maintained and will call an immediate cease-fire anytime communication is lost with the line.
- e. Ensure all targets are brought to half-mast any time a cease-fire is called, when not in prep-time, or when instructed by the RSO.
- f. Assist pit verifiers during qualification firing.
- g. Ensure quality pit service is maintained.
- h. Conduct classes on scoring procedures.
- i. Control movement of personnel assigned to the pits. Ensure all safety regulations are followed and allow no one forward of the red safety line while live fire is in progress.
- j. Train and supervise the Assistant Pit NCO.
- k. Perform preventive maintenance on all pit equipment to include monthly checks of the earthen berm. Berms should be monitored for erosion and degradation. Periodic maintenance will be required.
- l. Keep the official time for all timed events.
- m. Conduct the daily pit safety brief prior to live fire. The safety brief will be given verbatim.
- n. Ensure only range personnel and Verifying Officers use the communications system.

12. Assistant Pit NCO. The Assistant Pit NCO must be capable of assuming the Pit NCO responsibilities, giving commands, and maintaining control of the shooters.

5 May 10

- a. Will assist the Pit NCO in the performance of his/her duties.
- b. Supervise working parties in the pits. This will include pit maintenance.
- c. Ensure all safety regulations are followed and allow no one forward of the red safety line while live fire is in progress.

13. Block NCO. The Block NCO is an immediate supervisor responsible to the Range Officer for the conduct of training and enforcement of regulations within his assigned block of targets. He will be thoroughly familiar with the contents of this directive and his duties will include, but are not restricted to the following:

- a. Assist the Line SNCO in the execution of his/her duties in his assigned block of targets.
- b. Be assigned to not more than 10 consecutive targets.
- c. Supervise training and enforce all range operations and safety regulations, to include the detailed supervision of coaches assigned to their block.
- d. Monitor the pit service and report problems to the Line SNCO.
- e. Officiate on record day and determine line alibis if authorized by the Line SNCO.
- f. Conduct training for coaches within his/her area of responsibility as required.
- g. Supervise coaches conducting a weapons safety inspection.
- h. Supervise the police of his block of targets.
- i. On qualification days, ensure that scorecards are completed properly. When shooters are finished with the firing, ensure all scorecards are turned into the Line SNCO.
- j. Ensure that coaches have and use their coaches' data cards.
- k. Ensure all unused ammunition is returned to the RSO.

5 May 10

l. Ensure personnel firing are ready for each stage/string of fire.

m. Constant and close supervision of assigned coaches with particular attention to proper coaching techniques, data book-keeping procedures, personal appearance, conduct and ammunition procedures as set forth by this order.

14. Combat Marksmanship Coach (CMC). Range coaches are responsible to the Range Officer for the conduct of training and enforcement of regulations within his assigned area of targets. He will be thoroughly familiar with the contents of this directive. Primarily, the range coach is a teacher and mentor to the Marines assigned to his/her targets. Safety is paramount during any live fire evolution and equally important after that is the honing of combat marksmanship skills. His duties will include, but not be restricted to the following:

a. Ensure that all Marines train in accordance with the current directives and not be assigned more than four target points.

b. Ensure that Marines are not changed on the target and/or relay assignment without authorization from the Line SNCO or Block NCO.

c. Comply with all ammunition regulations.

d. Supervision of Marines regarding the daily maintenance of weapons, equipment, data books, and the cleanliness of his/her assigned target area.

e. Referring disciplinary problems to the Block NCO, Line SNCO.

15. Police Sergeant. Assist the Range Officer in the execution of his duties by supervising the logistical support required for the range. He is further responsible for:

a. Maintenance of property and property records.

b. Requisitioning, issuing, recovering supplies.

c. Coordinate and supervises working parties assigned to him.

5 May 10

d. Requests for materials for self-help projects will be coordinated through the Range Chief.

e. Report all maintenance and communication discrepancies to the Range Chief.

f. Maintain the upkeep and cleanliness of the each yard line area.

g. Ensure all damaged targets are repaired daily to replenish inventory.

16. Ammunition NCO. The Ammunition NCO is responsible to the Range Officer for the requisitions, handling, transporting, security, issuing and recovering of all ammunition used on the ranges.

a. Will be guided in the performance of his duties by this directive, the Class V (W) SOP and all other orders and directives regarding ammunition used aboard the ranges.

b. Must be familiar with special orders pertaining to the Ammunition Supply Point (ASP).

c. Read and be familiar with regulations and directives for the handling, storage, transportation, and security of ammunition.

d. Review the MTU Class V (W) SOP in addition to the following instructions:

(1) The Ammo Tech will act as Quality Assistance and Safety Observer in accordance with the MCO 8023.3 for all personnel and activities involving ammunition aboard the ranges and ensure adequate training for personnel assigned to the tasks dealing with the handling or transportation of ammunition. Any changes in regulations or violations of regulations must be addressed to the Range Officer upon identification.

(2) Ensure adequate quantities of ammunition are maintained on hand for scheduled training, and assist all non-tenant units in transferring assets to the ranges for training.

(3) Requisitions for resupply must be made to the ASP a minimum of seven working days before the issue is needed. Upon receipt, all ammunition will be stored in the magazine supplied by the ASP.

5 May 10

e. The Ammunition NCO will comply with current directives on ammunition breakout ensuring not to exceed the amount needed for that days firing and ensuring that it is protected from the elements and not fired indiscriminately.

f. Report all malfunctioning ammunition in accordance with governing orders.

17. Armorer. The Range Armorer will assist the Range Officer in the execution of his/her duties by:

a. Providing the necessary tools and spare parts to effect normal maintenance of weapons. No major repair will be accomplished on the firing ranges.

b. Repairing weapons as necessary, referring weapons that cannot be repaired on the range to their assigned armory. Weapons referred to the armory for repair will be properly tagged with form NAVMAC 1018.

c. Advising the Range Officer on the serviceability of weapons and the safety aspect of test firing a weapon.

d. Assisting the clearing of weapons on the firing line that are beyond the Marines capability of clearing.

e. Reporting to and remaining under the control of the Range Officer or Line SNCO until secured.

f. In the event of a catastrophic weapon failure, the armorer will remove the weapon from the shooter and ensure the weapon remains oriented down range. The armorer will attempt to put the weapon on safe.

g. In the event of ammunition malfunction, the Armorer will assist the Ammunition Technician by gathering the required weapons data for the report.

18. Corpsman. Assigned Corpsman will conduct a face-to-face brief with the respective Range Chief at the designated time on the first day of live fire. Additionally, the Corpsman will:

a. Have sufficient life saving equipment and additional medical supplies on hand to treat a variety of conditions.

5 May 10

- b. Read and be familiar with his/her responsibilities during a Medivac procedure.
- c. Inform the Range Chief of whereabouts at all times.
- d. During inclement or extreme weather conditions, the Corpsman will check assigned personnel for signs of illness or heat related injuries.

5 May 10

Chapter 4

Annual Marksmanship Training Requirements

1. General

a. The Marksmanship Training Unit (MTU) will conduct all annual marksmanship qualification training for units and detachments stationed at MCAS Yuma. Units and attachments not stationed aboard MCAS Yuma will be on a space available basis. Refer to current Bulletin for quota assignments.

b. All personnel re-qualifying with the service rifle or service pistol will qualify for a score utilizing the current authorized weapon system per reference (a).

(1) Proficiency Enhancement Training (PET) is no longer recognized as a course of fire. Refer to reference (a) for current requirements.

(2) All Marines who are required by T/O, grade, or duty assignment to carry or use the M9 service pistol must complete qualification training/firing, lessons ELP.1 through ELP.11, per reference (a) prior to being armed.

c. Marines not required to requalify annually with the service rifle or the service pistol are listed in reference (a).

2. Administrative Instructions. Detailed instructions for roster submission requirements can be found in the current StaBul for Marksmanship Training.

3. Personnel Requirements For The Operation Of Rifle Ranges. In accordance with reference (a), the following personnel requirements are set forth as guidance for safe range operations. The Range Officer will report shortages of manpower to the Commanding Officer of Headquarters and Headquarters Squadron, MCAS Yuma.

a. Range Safety Officer (RSO). This is a MTU assigned billet and will be filled by a Sergeant or above. The Marine holding this billet will be designated by the Range Officer and will be guided in their duties by reference (b) and this order.

b. Line SNCO. This billet will be filled by a Staff Sergeant or Sergeant with the secondary MOS 0931. The Line SNCO

5 May 10

will be present on the firing line during all firing unless otherwise directed by the Range Officer or the Range Chief.

c. Combat Marksmanship Trainer (CMT). The CMT is a subject matter expert for combat marksmanship training within his unit. The CMT must have the secondary MOS 0931. The CMT is responsible for assisting unit commanders in conducting the Marine Corps Combat Marksmanship Program. The CMT conducts all classroom instruction during Preparatory and Preliminary Training.

d. Tower NCO. A trained operator (MOS 0933), familiar with all range regulations and the sequence of commands, will be present in the control booth to control the firing personnel on the rifle range.

e. Pit NCO. The Pit NCO controls pit operations, enforces pit regulations, gives pit commands, and assists pit verifiers. The Pit NCO must hold the secondary MOS 0933.

f. Assistant Pit NCO. The Assistant Pit NCO provides the Pit NCO the flexibility to address problems that may arise during practice or evaluation firing and still maintain control of pit operations. The Assistant Pit NCO should be proficient in the duties identified for the Pit NCO. The Assistant Pit NCO must hold the secondary MOS 0933.

g. Block NCO. During live fire training, one Block NCO (MOS 0933) will be assigned a block of not more than ten (10) targets unless otherwise directed by the Range Officer.

h. Combat Marksmanship Coach (CMC). One coach (MOS 0933) will be assigned no more than four (4) targets unless otherwise directed by the Range Officer.

i. Staff Non-fire. One Staff Non-commissioned Officer per unit will be assigned to be responsible for accountability, discipline, and request and receipt for chow for all shooters on the range within their command.

4. Annual Rifle Qualification Course. The current annual qualification course is outlined in reference (a).

5. Personnel Requirements for the Operating of Pistol Ranges. The following personnel requirements are set forth as guidance for safe range operations. The Range Officer will report shortages of manpower to the Commanding Officer of Headquarters and Headquarters Squadron, MCAS Yuma.

5 May 10

a. Range Safety Officer (RSO). This is a MTU assigned billet and will be filled by a Sergeant or above. The Marine holding this billet will be designated by the Range Officer and will be guided in their duties by reference (a) and this order.

b. Line SNCO. This billet will be filled by a Staff Sergeant or Sergeant with the secondary MOS 0931 (Combat Marksmanship Trainer/CMI). The Line SNCO will be present on the firing line during all firing unless otherwise directed by the Range Officer or the Range Chief.

c. Combat Marksmanship Trainer (CMT). The CMT is a subject matter expert for combat marksmanship training within his unit. The CMT must have the secondary MOS 8531. The CMT is responsible for assisting unit commanders in conducting the Marine Corps Combat Marksmanship Program. The CMT conducts all classroom instruction during Preparatory and Preliminary Training.

d. Tower NCO. A trained operator, familiar with all range regulations and the sequence of commands, will be present in the control booth to control the firing personnel on the pistol range.

e. Block NCO. During live fire training, one Block NCO (MOS 0933) will be assigned a block of not more than ten (10) targets unless otherwise directed by the Range Officer.

f. Combat Marksmanship Coach (CMC). One coach (MOS 0933) will be assigned no more than four (4) targets unless otherwise directed by the Range Officer.

6. Annual Pistol Qualification Course. The current annual qualification course is outlined in reference (a).

7. Special Courses of Practice Firing. Special courses of practice firing may be prescribed by the Range Officer to provide progressive development of marksmanship training.

8. Unit Level Training. Unit requests for support involving unit level training events must be submitted 30 working days in advance via a range request. Requests will be approved on a case by case basis not to interfere with the annual training schedule.

Chapter 5

Range Safety Regulations

1. General. Units conducting live fire evolutions will ensure personnel conducting the training event and participating in the event are well versed and have complete understanding of the training to be conducted. The unit commander is responsible for designating RSOs and OICs per reference (a) and chapter 1 of this order.

2. General Safety Regulations and Responsibilities. The firing of small arms will be governed by the provisions of references (b) through (i) and the following:

a. Firing will be conducted only when authorized by the ROCC/Range Control Officer.

b. Personnel assigned duties involving live-fire training or range operations will be in accordance with reference (b) and be assigned in writing by the Unit Commander. Personnel used as Position Safety Officers must be briefed by the RSO of their duties and responsibilities prior to live fire training.

c. During recreational firing sponsored by the Marine Corps Community Services (MCCS), an RSO will act as the Range Officer.

d. RSOs will be guided in their duties per reference (b), chapter 1, and the following:

(1) Must be physically present on the range and maintain surveillance of firing and safety within the entire surface and vertical hazard space of the assigned range.

(2) Calls "CEASE FIRE" when any aircraft enter the vertical hazard space of the assigned range or if the surface danger zone has been penetrated by personnel or vehicles.

(3) Ensure all target placements and potential impacts are contained within the existing Surface Danger Zones.

(4) Will review ORM and Control Measures as approved by Unit Commander.

e. The OIC will be guided in his/her duties in chapter 1, reference (b) and the following:

5 May 10

(1) Conduct a live fire brief for all personnel per unit ORM.

(2) Responsible for the conduct of all range personnel and personnel undergoing instruction.

(3) Ensure that a Corpsman is present prior to the commencement of fire.

(4) Ensure strict enforcement of the regulations prescribed by the references and this order.

(5) Ensure the range safety flags are raised and barricades are in place prior to the commencement of live firing.

(6) Ensure the safety of any aircraft that enter the vertical danger zone airspace.

(7) Review ORM and Control Measures as approved by the Unit Commander.

f. Range safety flags will be raised prior to live firing and chemlites will be used at night. The red warning flags/(2) chemlites per pole will, at a minimum, be placed in the following areas:

(1) At the entrance to the ranges, i.e., the flagpoles at the gates.

(2) At each end of the impact berm of the firing range being utilized.

g. Any person observing an unsafe condition will immediately call "CEASE FIRE" and report the condition to the RSO. Firing will not resume until the condition has been corrected.

h. No person will fire any weapon until it has been ascertained that they have completed the following:

(1) Received a safety brief and event brief.

(2) Received instruction in the mechanical safety features and malfunction procedures of the weapon.

5 May 10

(3) Weapon(s) to be fired have received a limited technical inspection (LTI) and Pre-Fire Inspection (PFI) by a qualified armorer.

i. Communications. RSOs will ensure two forms of communication are operational during the training event and a watch is posted. Communications can be range phones, cell phones, or radios. In the event of lost communications, the RSO will stop the training event until communications can be re-established.

j. **Aircraft have priority over all range operations.** RSOs will ensure downrange areas are closely observed and cease fire is called in the event aircraft enter the vertical hazard zone of the munitions they are firing.

k. All personnel and gear must be inspected for rounds, and all weapons will be cleared and in condition four prior to leaving the range.

3. **Firing of Non Service and Privately Owned Weapons.** The firing of non-service and privately owned weapons for qualification is strictly prohibited (CGFMFPAC210356Z JUL 87). The firing of non-service and privately owned weapons for recreational purposes may be authorized as outlined below:

a. The weapon will be registered with PMO.

b. A qualified armorer will complete an LTI of the weapon to be fired to ensure the safety of the weapon. A written certificate of inspection, signed by the armorer, will be presented to the Range Officer.

c. A release of liability and indemnity will be signed by the individual requesting recreational firing.

d. Caliber of the weapon will not exceed specified range restrictions. No Magnum loads will be fired on any of the Range Complex Ranges.

e. The firing of such weapons will not interfere with scheduled training. Military training will take priority over any recreational firing.

f. The shooter will provide their own ammunition, which must be declared safe by the Range Control Officer. The use of

5 May 10

government ammunition for privately owned weapons is strictly prohibited.

g. Personnel will provide a detailed brief to the Range Control Officer a minimum 20 working days prior to the requested training date.

4. Vehicles on the Range

a. No vehicles will be allowed on the ranges without express written consent of the Range Control Officer/ROCC. Approved vehicles will remain clear of the target area or forward of any firing line while firing is in progress.

b. No vehicle will be parked so as to block the path of emergency vehicles.

c. The RSO will designate all parking spaces for range personnel and emergency vehicles.

d. POV's are not allowed on any range without permission of the Range Control Officer, ROCC, or Range Officer.

5. Rifle Range Regulations. All firing will be conducted in accordance with published directives and references (a) through (i).

a. Prior to the commencement of firing, the RSO will ensure that:

(1) Warning flags have been raised (chemlites at night).

(2) A sweep of the Surface Danger Zone has been completed and the gates have been closed and/or barricades have been placed across the access roads.

(3) Corpsman and safety vehicle are present.

(4) Two forms of communications have been established between the range, ROCC, and Air Traffic Control (ATC).

(5) The area in front of the firing line and behind the impact area is clear. A visual check of the impact area is conducted while raising the range flags.

(6) An "UNLOAD, SHOW CLEAR" command has been conducted prior to live fire.

5 May 10

(7) The OIC shall report the following information to ROCC at (928) 269-6830 prior to going hot:

- (a) Training area/range being used
- (b) Firing Unit designation
- (c) Number of personnel
- (d) Type of ordnance and weapon system
- (e) Type of training
- (f) Time in/expected length of stay
- (g) Completion time
- (h) Name and rank of OIC, RSO, and Corpsman.

b. All personnel will receive at a minimum before firing: safety brief, training event brief, range regulation brief, and a brief on the procedures in the event the weapon they are firing malfunctions.

c. Weapons will be in condition 4 unless specifically called out in the training event (for annual Marksmanship Training refer to Chapter 4 of this order). Weapon conditions are listed in reference (g).

d. OICs will ensure personnel not involved in the training event maintain muzzle awareness. Personnel on the firing line are required to keep their weapons pointed in a safe direction at all times. RSOs must remain vigilant of muzzle orientation during live fire events to avoid discharging rounds outside of impact areas.

e. Weapons will be loaded only on command of the Range OIC, RSO, Line SNCO, Tower NCO or as per training event brief on the firing line or designated area.

f. When the command "CEASE FIRE" is given, all target engagement will stop and all weapons on the firing line will be placed on safe. All shooters will remain on the firing line until instructions are given by the tower to move. No weapons will be moved off of the firing line until unloaded and inspected.

5 May 10

g. During firing, the RSO will ensure the training event is taking place as prescribed. The RSO will remain vigilant for rounds impacting outside the lateral limit markers, low flying aircraft, and overall safety. Aircraft operations take priority over live fire training.

h. RSOs will complete the required ammuniton report(s) per this order.

i. OICs will contact ROCC or the Range Control Officer to arrange for an inspector to check the range.

j. RSOs and OICs will ensure personnel movement downrange remains clear of Surface Danger Zones.

6. Pistol Range Regulations. All firing will be conducted in accordance with published directives and references (a) through (i).

a. Prior to the commencement of firing, the RSO will ensure that:

(1) Warning flags have been raised (chemlites at night).

(2) A sweep of the Surface Danger Zone has been completed and the gates have been closed or barricades have been placed across the access roads.

(3) A corpsman and safety vehicle are present.

(4) Two forms of communications have been established between the range and ROCC.

(5) The area in front of the firing line and behind the impact area is clear. A visual check of the impact area is conducted while raising the range flags.

(6) The OIC shall report the following information to ROCC at (928) 269-6830 prior to going hot:

(a) Training area/range being used

(b) Firing Unit designation

(c) Number of personnel

5 May 10

- (d) Type of ordnance and weapon system
- (e) Type of training
- (f) Time in/expected length of stay
- (g) Completion time
- (h) Name and rank of OIC, RSO, and Corpsman.

(7) An "UNLOAD, SHOW CLEAR" command has been conducted prior to live fire.

b. All personnel received a safety brief on the firing line.

c. Pistols will be in condition 4 in accordance with current procedures (for annual Marksmanship Training refer to Chapter 3 of this order).

d. OICs will ensure personnel not involved in the training event maintain muzzle awareness. Personnel on the firing line are required to keep their weapons pointed in a safe direction at all times. RSOs must remain vigilant of muzzle orientation during live fire events to avoid discharging rounds outside of impact areas.

e. Weapons will be loaded only on command of the Range OIC or RSO during live fire training, and by the Line SNCO/Tower NCO during annual marksmanship training. Weapons will only be loaded on the firing line immediately prior to firing.

f. When the command "CEASE FIRE" is given, all target engagement will stop and all weapons on the firing line will be placed on safe. All shooters will remain on the firing line until instructions are given by the tower to move. No weapons will be moved off of the firing line until unloaded and inspected.

g. During firing, the range OIC will ensure the training event is taking place as prescribed. The RSO will remain vigilant for rounds impacting outside the lateral limit markers, low flying aircraft, and overall safety. Aircraft operations take priority over live fire training.

7. Post Exercise Actions. Upon completion of live fire the following will take place:

5 May 10

a. Police call will be conducted to remove all live rounds, brass, and trash. Targetry will be taken down and wood will be removed.

b. Live rounds will be accounted for on the expenditure report and returned to the ASP with any rounds not expended.

c. Brass will be taken by the firing unit and turned into the proper agency aboard the air station. Do Not throw brass or spent casings of any kind into the trash.

d. Trash will be thrown in the appropriate trash receptacles.

e. Personnel will be checked for saved rounds or brass. The RSO will then complete the expenditure report.

f. All weapons will be cleared and in condition 4. Magazine pouches/retention devices will be checked and cleared of rounds.

g. The OIC will contact the Range Officer or ROCC to arrange for a post exercise inspection.

h. The OIC will contact ROCC and report the following:

(1) Time training has ended.

(2) Total number of rounds expended.

(3) All weapons are cleared and in condition 4.

(4) All personnel and gear accounted for.

i. Range flags/chemlites will be taken down.

j. A copy of the expenditure report will be given to the Range Officer or ROCC upon completion of the training event.

k. The RSO will account for ammunition per Chapter 2 of this order.

8. Fire Procedures. Fire Procedures can be found in the Training Area Regulations StaO P3500.2. Prior to going hot the RSO will contact fire dispatch to obtain the Fire Danger Rating (FDR).

5 May 10

9. Blanks. The use of blanks on live fire ranges must be approved. Extreme caution must be taken so as to ensure blank ammunition and live ammunition is kept separated. Units approved for the use of blanks will at a minimum:

a. Maintain a 24 hour no fire period between live and blank fire evolutions.

b. RSOs will ensure separation of blank and live ammunition (if required).

c. All weapons, magazines, and magazine pouches will be checked visually by the RSO to ensure they are empty prior to conducting blank training.

10. Weapons Malfunctions. In the event of a weapons malfunction, the RSO and OIC will follow the malfunction procedures listed in the MCO 8025.1E and Chapter 2 of this order. The RSO will make the following notifications:

a. If injury or fatality involved, execute medevac procedures as listed on MEDEVAC checklist located at the rifle and pistol ranges.

b. Contact ROCC at 928-269-7080.

c. ROCC will notify the appropriate Station personnel of the mishap.

d. The issuing armory will be contacted for disposition of the malfunctioning weapon.

e. The RSO will secure the site of the weapons malfunction until armory personnel arrive at the range. Once at the range, the armory personnel will take responsibility of the weapon.

f. Weapons malfunctions will be reported through the required chains of command.

11. Ammunition Malfunctions. Ammunition Malfunction procedures are found in Chapter 2 of this Order. Additionally, the RSO will make the following notifications:

a. If injury or fatality involved, execute medevac procedures provided at the range facility.

5 May 10

b. Contact ROCC at (928) 269-7080.

c. ROCC will notify the appropriate Station personnel of the mishap.

d. ROCC will be included as an addressee in the ammunition malfunction report message.

12. Special Effects Small Arms Marking System (SESAMS). SESAMS training will not be conducted without prior approval from the ROCC. All training will be conducted per TECOM Safety Of Use Memorandum 1-02 to include the following:

a. Medical personnel and a safety vehicle are mandatory for this training.

b. A 150 meter safety (distance) zone will be kept around the training area. Personnel within the safety distance zone must have the required personnel protective equipment.

c. Personnel will adhere to the 5 meter engagement distance.

d. Hearing protection must be worn during SESAMS training.

e. Only approved SESAMS ammunition per TECOM SOUM 1-02 will be used during training.

f. Unit Commanders will ensure all weapons have correct kits, and all weapons are cleared and in condition 4 and magazines are cleared before and after training.

APPENDIX A

MCAS YUMA MTU OPERATIONAL RISK MANAGEMENT WORKSHEET

MCAS YUMA MTU OPERATIONAL RISK MANAGEMENT WORKSHEET							
DATE: 090112			UNIT: MCAS YUMA MTU				
EVOLUTION: Sustainment Live-Fire KD course Normal Conditions			PREPARED BY: CWO2 Young, Allen M.				
Step 1. Identify hazards			Step 2. Assess Hazards	Step 3. Make Risk Decisions		Step 4. Implement Controls	Step 5. Supervise
Operation Phase	Hazard	Cause	Initial RAC	Develop Controls	Residual RAC	How to Implement	How to Supervise
KD Range General Situational Awareness	-Shooters with emotional/medical problems	-Suicidal -Homesick/tired -No longer wants to be a Marine -PTSD -Work related stress -Family related stress	I/C=2	-Chain of command screen shooters -Commands informing the, Range OIC/RSO, medical corpsman of possible troubled shooters. -CMT's and coaches observing shooters behavior	II/C=3	-Quarterly range training meetings with training reps. -Units observing for weird behaviors or signs of depression -Range personnel looking for weird behaviors or signs of depression	-OIC/RSO, Block NCO's, and coaches supervision -Tower -Pit NCO -Units being aware of how their shooters are doing
Movement of shooters from staging area to Firing Lines and Pits	-Tripping/Falling -Twisting Ankle -Dropping Rifle	-Shooters running on the range. -Large rocks. -Gear on the ground	III/C=4	-Safety/ORM brief -Situational awareness -Shooters not running when on the rifle range	IV/C=5	-Proper Safety/ORM brief -Identify the hazards -Inform the shooters to not run on the range	-OIC/RSO -Block NCO's -Coaches supervising and safety brief -Pit NCO giving commands and safety brief -Shooters not running on the range -Medical Corpsman

APPENDIX A

MCAS YUMA MTU OPERATIONAL RISK MANAGEMENT WORKSHEET

KD Training Area	-Weather exposure -Dehydration -Heat cramps -Heat exhaustion -Sun burn	-Clear skies -Warm weather -Humidity -Not drinking water -Wind	III/D=5	-Safety/ORM brief -Identify shooters with previous heat weather injuries -Hydrate -Medical Corpsman -Monitor wet bulb for heat category -Sun block	IV/D=5	-Proper Safety/ORM brief -Dress appropriate for weather -Buddy system -Drink water -Apply sunscreen protection	-OIC/RSO -Block NCO's -Coaches supervising -Tower monitor conditions -Pit NCO -Medical Corpsman
KD Training Area	-Snake Bite -Spider Bite -Scorpion Sting	-Rattle Snake -Black Widow -Brown Recluse -Scorpions	II/C=3	-Safety/ORM brief -Inform shooters of the various wildlife in the area -First aid class for snake/spider bites -Situational awareness	II/D=4	-Proper Safety/ORM brief -Identify the hazardous wildlife in the training area -Order shooters to leave or not harass the wildlife in the training area -Assigned NCO snake handler with proper training on how to handle snakes	-OIC/RSO -Block NCO's -Coaches inspect area -Tower -Medical Corpsman
KD Training Area	-Hearing loss -Loud noises	-Not wearing hearing protection/earplugs	II/B=2	-Safety/ORM brief -Inform shooters about hearing loss from loud noises	III/C=4	-Hearing protection available -Inspecting shooters on the firing line	-OIC/RSO -Block NCO's Leadership -Coaches inspection -Tower commands -Medical Corpsman
KD Training Area	-Gunshot wound	-Live fire -Shooter mishandling weapon -No muzzle awareness -Not following the Four safety rules	I/C=2	-Safety/ORM brief -Muzzle awareness -Weapons handling class -Check rifle data at each yard line -Fire on the assigned target	II/C=3	-Proper Safety/ORM brief -Minimize movement of shooters -Supervision by Coaches, block's, CMT's, OIC/RSO -Shooters understanding the Four Safety rules -Static line shoot	-OIC/RSO -Block NCO's -Coaches supervision -Tower -Medical Corpsman
KD Training Area	-Weapon misfire -Weapon explosion	-Damaged Ammunition -Damaged ammunition cartridges -Weapon dirty	II/C=3	-Weapons cleaning -Weapons inspections -Check ammunition	II/D=4	-Proper LTI by the armory -Ammunition inspection by coaches and shooters -Bolt & Bore inspection by the coaches -Shooters cleaning weapon properly -Function checks on the weapons after cleaning	-Block NCO's Leadership -Coaches inspection

APPENDIX A

MCAS YUMA MTU OPERATIONAL RISK MANAGEMENT WORKSHEET

Pit area	-Carriages -Catwalk	-Pulling the carriages up and down -Tripping off the catwalk -Hitting head on the carriage -Hitting head pulling targets out of the carriage	III/B=3	-Safety/ORM brief -Pit operations class -Situational awareness	IV/C=5	-Buddy system of pulling the carriages up and down to prevent lower back pain or strained muscles -Not running on the catwalk -No moving in between carriages -Situational awareness when removing targets from carriage	-OIC/RSO -Pit NCO supervision
Pit area	-Live rounds coming down range	-Not staying below/behind the red line -Ricochet	II/C=3	-Safety/ORM brief -Informing shooters about the consequences of not staying below/behind red line	II/D=4	-Pit Safety commands -Indicating the red lines to the shooters -Pit supervision	-OIC/RSO -Pit NCO supervision
Pit area	-Hearing loss	-Not wearing hearing protection/earplugs -Loud noises	II/B=2	-Safety/ORM brief -Inform shooters about hearing loss from loud noises	III/C=4	-Hearing protection	-OIC/RSO -Pit NCO supervision
Pit Area	-Snake Bite -Spider Bite -Scorpion Sting	-Rattle Snake -Black Widow -Brown Recluse -Scorpions	II/C=3	-Safety/ORM brief -Inform shooters of the various wildlife in the area -First aid class for snake/spider/scorpion bites -Situational awareness	II/D=4	-Proper Safety/ORM brief -Identify the hazardous wildlife in the training area -Order shooters to leave or not harass the wildlife in the training area -Assigned NCO snake handler with proper training on how to handle snakes	-Pit NCO supervision

COMMAND REVIEW /APPROVAL: S3- XO- CO-

HAZARD SEVERITY: I-CATASTROPHIC (DEATH, PERM DIS, MAJOR PROP DAMAGE) **II-CRITICAL**(PERM PARTIAL DIS, MAJOR SYSTEM DAMAGE, MINOR PROP DAMAGE) **III-MARGINAL**(MINOR INJ/SYSTEM/PROP DAMAGE) **IV-NEGLIGIBLE**(1ST AID, MINOR SYSTEM REPAIR)

MISHAP PROBABILITY: A-FREQUENT B-LIKELY C-OCCASIONAL D-UNLIKELY

RISK ASSESSMENT CODE: 1-CRITICAL 2-SERIOUS 3-MODERATE 4-MINOR 5-NEGLIGABLE

APPENDIX A

MCAS YUMA MTU OPERATIONAL RISK MANAGEMENT WORKSHEET

MCAS YUMA MTU OPERATIONAL RISK MANAGEMENT WORKSHEET							
DATE: 090112			UNIT: MCAS YUMA MTU				
EVOLUTION: Pistol Course Normal shooting conditions			PREPARED BY: CWO2 Young, Allen M.				
Step 1. Identify hazards			Step 2. Assess Hazards	Step 3. Make Risk Decisions		Step 4. Implement Controls	Step 5. Supervise
Operation Phase	Hazard	Cause	Initial RAC	Develop Controls	Residual RAC	How to Implement	How to Supervise
Movement of Marines from Firing Lines to the Pits	-Tripping/Falling -Twisting Ankle	-Rocks/gravel. -Gear on the ground -Target system	III/C=4	-Safety/ORM brief -Situational awareness	IV/C=5	-Proper Safety/ORM brief -Identify the hazards	-OIC/RSO -Coaches supervision -Tower giving commands -Medical Corpsman
Training Area	-Weather exposure -Dehydration -Heat exhaustion -Sun burn -Hyperthermia	-Warm weather -Clear skies -Humidity -Not drinking water	III/D=5	-Safety/ORM brief -Monitor wet bulb for heat category -Identify Marines with previous heat injuries -Hydrate -Medical Corpsman -Sun block	IV/D=5	-Proper Safety/ORM brief -Dress appropriate for weather -Buddy system -Drink water -Apply sun block	-OIC/RSO -Coaches supervision -Tower monitoring conditions -Medical Corpsman supervising
Training Area	-Snake Bite -Spider Bite -Scorpion Sting	-Rattle Snake -Black Widow -Brown Recluse -Scorpions	II/C=3	-Safety/ORM brief -Inform Marines of the various wildlife in the area -First aid class for snake/spider/scorpion bites -Situational awareness	II/D=4	-Proper Safety/ORM brief -Identify the hazardous wildlife in the training area -Order Marines to leave or not harass the wildlife in the training area -Assigned NCO snake handler with proper training on how to handle snakes	-OIC/RSO -Coaches inspecting area -Tower -Medical Corpsman
Training Area	-Hearing loss -Loud noises	-Not wearing hearing protection/earplugs	II/B=2	-Safety/ORM brief -Inform Marines about hearing loss from loud noises	III/C=4	-Hearing protection	-OIC/RSO -Coaches inspection -Tower commands -Medical Corpsman

APPENDIX A

MCAS YUMA MTU OPERATIONAL RISK MANAGEMENT WORKSHEET

Training Area	-Gunshot wound	-Live fire -Marine mishandling weapon -No muzzle awareness -Not following the Four safety rules	I/C=2	-Safety/ORM brief -Muzzle awareness -Weapons handling class -Fire on the assigned target	II/C=3	-Proper Safety/ORM brief -Supervision by Coaches and OIC/RSO -Stating the Four Safety rules	-OIC/RSO -Coaches supervision -Tower giving commands
Training Area	-Weapon misfire -Weapon explosion	-Damaged Ammunition -Damaged ammunition cartridges -Weapon dirty -Weapon not on safe	II/C=3	-Weapons cleaning -Weapons inspections -Check ammunition	II/D=4	-Proper LTI by the armory -Ammunition inspection by coaches and Marines -Bolt & Bore inspection by the Marines -Marines cleaning weapon properly -Function checks on the weapons after cleaning	-Coaches inspection -Marines checking ammunition -Marines inspecting their pistols
Pit area	-Carriages	-Carriages turning	III/C=4	-Safety/ORM brief -Pit operations class -Situational awareness	IV/C=5	-Situational awareness when removing targets from carriage	-Coaches supervision -Tower giving commands to stay clear of carriages while turning
Pit area	-Tripping/Falling -Twisting Ankle	-Gopher Holes. -Gear on the ground	III/C=4	-Safety/ORM brief -Situational awareness	IV/C=5	-Proper Safety/ORM brief -Identify the hazards	-OIC/RSO -Coaches supervision -Tower giving commands -Medical Corpsman
Pit area	-Snake Bite -Spider Bite -Scorpion Sting	-Rattle Snake -Black Widow -Brown Recluse -Scorpions	II/C=3	-Safety/ORM brief -Inform Marines of the various wildlife in the area -First aid class for snake/spider/scorpion bites -Situational awareness	II/D=4	-Proper Safety/ORM brief -Identify the hazardous wildlife in the training area -Order Marines to leave or not harass the wildlife in the training area -Assigned NCO snake handler with proper training on how to handle snakes	-OIC/RSO -Coaches -Tower -Medical Corpsman

COMMAND REVIEW /APPROVAL: S3- XO- CO-

HAZARD SEVERITY: I-CATASTROPHIC (DEATH, PERM DIS, MAJOR PROP DAMAGE) II-CRITICAL (PERM PARTIAL DIS, MAJOR SYSTEM DAMAGE, MINOR PROP DAMAGE) III-MARGINAL (MINOR INJ/SYSTEM/PROP DAMAGE) IV-NEGLIGIBLE (1ST AID, MINOR SYSTEM REPAIR)

MISHAP PROBABILITY: A-FREQUENT B-LIKELY C-OCCASIONAL D-UNLIKELY

RISK ASSESSMENT CODE: 1-CRITICAL 2-SERIOUS 3-MODERATE 4-MINOR 5-NEGLIGABLE