



UNITED STATES MARINE CORPS

MARINE CORPS AIR STATION MIRAMAR
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10 MAR 2003

STATION ORDER P3500.2

From: Commanding General

To: Distribution List

Subj: TRAINING AREA REGULATIONS

Ref: (a) MCO 3574.2J
(b) MCO P3570.1A

Encl: (1) LOCATOR SHEET

1. Purpose. Per the references, this Order promulgates guidelines, instructions, and procedures governing the use of ranges and training areas aboard Marine Corps Air Station (MCAS), Miramar.

2. Policy. Command policy is to promote multiple use of MCAS Miramar resources and encourage the use of MCAS Miramar land and facilities in support of specific military missions. Multiple use must be in harmony with MCAS Miramar's primary mission and applicable laws, regulations, and directives.

3. Applicability

a. This Order is applicable to all commands, organizations, units and activities authorized to use training areas and/or facilities aboard MCAS Miramar. In the event that the instructions contained herein conflict with those issued by higher authority, the orders of higher authority will prevail. Questions regarding this matter will be addressed to the Assistant Chief of Staff (AC/S), G-3 Training.

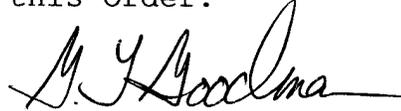
b. Nothing in this Order is to be construed as permitting unsafe acts that endanger life or property. Failure to comply with applicable regulations may subject the offender to administrative or disciplinary action under the Uniform Code of Military Justice.

4. Changes. Recommendations for changes to this Order are invited and will be submitted via the chain of command to the AC/S, G-3 Training.

10 MAR 2003

5. Action. Commanders will ensure that training activities conducted aboard MCAS Miramar are compatible with the mission, provide personal safety for military personnel involved and the surrounding community, comply with environmental regulations, and preserve the natural resources of MCAS Miramar. Strict compliance with the guidelines herein will be adhered to.

6. Concurrence. The Commanding General, 3d Marine Aircraft Wing concurs with the provisions of this Order.



G. L. GOODMAN
Chief of Staff

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LOCATOR SHEET

Subj: TRAINING AREA REGULATIONS

Location: _____
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ENCLOSURE (1)

TRAINING AREA REGULATIONS

RECORD OF CHANGES

Log completed change action as indicated.

Change Number	Date of Change	Date Entered	Signature of Person Incorporating Change

TRAINING AREA REGULATIONS

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TRAINING AREA REGULATIONS

CHAPTER 1

GENERAL

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TRAINING AREA REGULATIONS

CHAPTER 1

GENERAL

1000. ORGANIZATION

1. All Marine Corps Air Station (MCAS) Miramar training areas and facilities are the responsibility of the Commanding General (CG), MCAS, Miramar.
2. The Training Area Management Office (TAMO) operates under the cognizance of the AC/S, G-3 Training Division, and provides support to the CG, 3d Marine Aircraft Wing (MAW), and tenant commands located aboard the air station.
3. The TAMO serves as the coordinator of all ground training requests and scheduling of training areas and facilities. The TAMO is located in building 8671, room 124, telephone DSN 267-1448/1446.

1001. SCHEDULING

1. The TAMO is the scheduling agency for all MCAS Miramar training areas and field training facilities. These facilities include the Indoor Simulated Marksmanship Trainer (ISMT), Nuclear, Biological, and Chemical (NBC) Training Facility, Marine Corps Combat Swim Tank in building 2395 and the Station Theater, building 2242.

a. Units requesting the use of training areas must complete a Training Area Request form (Appendix D) and submit it to the TAMO 30 days prior to start of training. Request will be processed on a first come first serve basis.

b. TAMO will issue a confirmation letter (Appendix D) to the requesting unit. TAMO will provide for a safety and environmental briefing, as required. TAMO will normally coordinate the initial briefing, unit Commanders are responsible for subsequent briefings unless there is a significant change in training plans.

c. Non-tenant commands requesting the use of training areas must possess a current Interservice/Intraservice Service Support Agreement. All other requirements of this Order apply. Units seeking to acquire an agreement will contact the Agreements Division, MCAS Miramar, (858) 577-1626, or DSN 267-1626.

2. Training Plan Changes

a. Once training areas or facilities have been scheduled, it is the responsibility of the unit to ensure compliance with the approved schedule. Should there be a requirement to modify a scheduled time or location, the unit must notify the TAMO at the earliest opportunity.

b. Training cancellations should be reported as early as possible to reopen the area or facility for use by other units.

1002. TRAINING AREA REQUEST

1. Requests submitted to the TAMO will include:

a. Training area and or facility requested.

b. Date and time (provide times for each date listed).

c. Number of personnel.

d. Type of training: Description of the proposed action (land navigation, drivers training, patrolling, etc.) and the objective (exercise mission essential tasks, qualify on specific equipment, etc.).

e. Any weapons, ammunition, and pyrotechnics by type and quantity (usage must be reported to G-3 upon completion of training).

f. Vehicles by type and number.

g. Environmental coordination completed; a summary of planned action to prevent or mitigate any environmental damage.

2. TAMO will coordinate appropriate liaison with G-4, MCAS Safety Department, Environmental Security, and Public Works Division to ensure that all safety, logistical and environmental security concerns associated with the requested training are met.

1003. RIFLE AND PISTOL KNOWN DISTANCE (KD) RANGE REQUESTS

1. Requests for Rifle and Pistol KD ranges will be submitted to OIC, Marksmanship Training Unit, DSN 267-1788.

2. An annual marksmanship training scheduling conference is held to facilitate rifle and pistol scheduling for the next fiscal year. Station Bulletin 3574 is published stating the location, date, and time of the conference.

1004. INDOOR SIMULATED MARKSMANSHIP TRAINER (ISMT)

1. Requests to schedule the ISMT located in building 8671, South hanger, will be directed to the ISMT Operator at DSN 267-1446 or the TAMO at DSN 267-1448.

2. Fridays are scheduled as "walk-in" for remedial marksmanship training and anyone interested in improving their marksmanship skills. Walk-ins will be accepted from 0730 to 0800 for sign-in.

3. An Operators Course, to certify trainers on the operation of the ISMT, can be arranged by calling the numbers in paragraph 1004.1 above at least four weeks prior to requested date of training. A minimum of four personnel, preferably previously trained as marksmanship coaches, is required to constitute a course.

1005. EXPLOSIVE ORNANCE DISPOSAL (EOD) DEMOLITION RANGE. Located in Sycamore Canyon, East Miramar. It is used for training of EOD personnel only. Use and scheduling of the EOD range is governed by StaO P8027.1 and is scheduled through Station EOD.

1006. NUCLEAR, BIOLOGICAL AND CHEMICAL DEFENSE TRAINING REQUEST

1. Station Nuclear, Biological and Chemical (NBC) Defense training is available by request or by attending a scheduled training. For more information concerning scheduled training, call (858) 577-1446 or DSN 267-1446. Requests to attend training should be submitted to NBC Chief at least two weeks prior to desired date.

2. Requests for dates other than those previously scheduled shall be made at least four weeks prior to the desired date. This will allow coordination of gas chamber facilities.

1007. COMBAT SWIM TANK REQUESTS

1. Marine Combat Water Survival Training (MCWST) policy and

instructions are contained in MCO 1500.52_ and StaO 1500.1_ series.

2. The MCWST facility (No. 2169) is located by building 2395.
3. Current schedule information may be obtained by calling the MCWST facility at (858) 577-7918 or DSN 267-7918.

1008. MIRAMAR THEATER REQUEST. Units requesting to use the Station Theater, building 2242, for assembly, briefings or training should contact the TAMO at DSN 267-1448. Requests should be submitted at least 7 days prior to the intended use.

1009. WAIVERS. Request to change any provision contained in this Order will be addressed to the AC/S G-3 Training no later than thirty (30) days prior to the planned event.

1010. COMMUNICATIONS

1. Effective communications are required to control firing, coordinate requests for medical assistance, and announce unsafe conditions. As a minimum, reliable two-way (cell phone, FM radio, etc.) communication will be established between the training unit and TAMO.
2. During special exercises when units are operating under the control of their higher headquarters, adequate communications with using units and TAMO will be maintained.
3. TAMO telephone number is (858) 577-1448 or DSN 267-1448. FM radio Safety Net capability is under development and will be published separately when established. TAMO is manned Monday through Friday from 0600 to 1600.

1011. SAFETY

1. Combat is the most dangerous and volatile activity known to man. For optimum effectiveness, military units must train as they plan to fight, and this training is inherently dangerous. However, realistic training must not overrule safety. Every leader and every Marine is responsible to ensure training does not unnecessarily endanger life and or property.

2. The following special rules apply:

a. Hearing protection is required on all live-fire ranges.

b. Alcoholic beverages are not permitted in any training area at any time.

c. Any individual who observes an unsafe condition should report this immediately through the chain of command. The activity in question, be it a training event or any other activity, will be halted until the unsafe condition has been corrected.

d. The greatest danger to life and limb is associated with live fire; therefore, anyone can call "cease-fire" when an unsafe condition is observed during a live fire exercise.

e. Much of East Miramar was active ranges dating from the 1920s. Many areas have potential Unexploded Ordnance (UXO). Do not pick up anything which might have once been a weapon. Call the Explosive Ordnance Disposal (EOD) Office at (858) 577-7696 to report any findings.

3. Tactical and Tracked Vehicles

a. Tactical vehicles must utilize authorized existing roads and tank trails. Speed limit is 25 mph on hard surface roads and 15 mph on undeveloped roads unless otherwise posted. On all roads the speed limit while passing troops in formation is 5 mph.

b. Tactical vehicle operators must utilize only authorized existing roads and truck/tank trails. Tracked vehicles are only to be operated on Fire Break NS-4 and must cross asphalt roads at pre-determined sites. Tracked vehicle operation is restricted to the months of June, July, August and September. Any damage to roads, road shoulders, drainage ditches, culverts, and/or embankments must be reported to the PWD Trouble Desk at 577-1609/1619. All damage will be repaired or replaced at the expense of the responsible training area user(s). User commands shall revegetate areas damaged by vehicles that have traveled outside the training area assigned to user commands.

4. Severe Weather Conditions

a. Thunderstorms and lightning conditions are grounds to cease training operations and seek shelter. However, commanders may exercise the option to continue training in field locations.

All live-fire ranges will cease-fire during periods of electrical storms.

b. Flash flooding conditions are prevalent in the fall and winter. Gullies, dry river-beds, etc., should not be selected for rest sites.

c. Hot/Cold Weather. Severe temperature changes and prolonged exposure to high heat or cold by unclimatized personnel is extremely dangerous. Commanders must plan appropriately.

d. Long periods of high temperatures and low humidity greatly increase the danger of fire. Exercise caution during these periods.

1012. RESPONSIBILITIES

1. Users

a. Tenant commands must comply with all applicable Station Orders, Marine Corps Orders, and Federal, State, and Local regulations.

b. Non-tenant units must comply with the references stated above, and all terms of their service support agreement.

c. Using unit commanders will ensure all personnel are briefed on conduct of ground training at MCAS Miramar prior to conducting training.

2. Comptroller. Prepare, coordinate and review Interservice and Intraservice Support Agreements with requesting commands.

3. TAMO

a. Serve as the point of contact of all ground training requests aboard MCAS Miramar.

b. Review requests for conflicts with other scheduled users. Coordinate with MCAS Miramar Staff for any request that may conflict with air or installation operations.

c. Schedule training and maintain utilization records.

d. Monitor all training areas aboard MCAS Miramar and conduct pre and post training inspections of training areas.

e. Brief commanders on training area capabilities, safety, including UXO, environmental concerns, and conduct orientation surveys as required.

f. Respond to requests from groups, and commands requesting the use of MCAS Miramar's training areas. Approve, deny or modify requests in accordance with applicable regulations.

4. Environment Management Department (EMD)

a. Monitor federal, state, and local environmental regulations and initiatives for changes that could impact on MCAS Miramar, specifically the training mission.

b. Review and comment on requests for training activities of environmental significance.

c. Support environmental briefings on request.

5. Provost Marshals Office (PMO)

a. Respond to illegal incidents reported by TAMO.

b. Respond to reports of trespassers prior to ranges going hot.

c. Post personnel at access gates to East Miramar during normal working hours.

d. Conduct security patrols on East Miramar.

6. Miramar Fire Department

a. Respond to reports of fires, and provide necessary equipment to extinguish fires in the training areas.

b. Review and comment on fire equipment requirements with requesting units.

c. Provide current Fire Danger Rating conditions to TAMO on request.

7. Public Works Department (PWD)

a. Assist in coordination of portable sanitation facilities (porta-potties, etc.) and refuse removal.

b. Assist and partner the Training Area Management Program to prevent erosion and other natural or man-made loss of Station training property.

c. Respond to request for ground maintenance support.

d. Respond to request for assistance in removing wildlife (rattlesnakes, etc.) that endangers troops in training.

8. Explosive Ordnance Disposal (EOD)

a. Respond to ranges and training areas when Dud ordnance has been discovered during training evolutions.

b. Assist TAMO and Air Field Operations Officer in the approval process for the use of demolitions in the training areas.

c. Assist in the clearance of misfired demolition charges after all attempts to clear the misfire have been exhausted by the Demolition Control Officer or a representative.

TRAINING AREA REGULATIONS

CHAPTER 2

ENVIRONMENTAL REQUIREMENTS

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TRAINING AREA REGULATIONS

CHAPTER 2

ENVIRONMENTAL REQUIREMENTS

2000. GENERAL

1. MCAS Miramar exists first and foremost to support the Marine Corps mission. The ranges and training areas of MCAS Miramar are essential to the Marine Corps mission. MCAS Miramar is also the home of many endangered species, wetlands, and sensitive habitats that are protected by federal laws carefully enforced by the local regulatory community.

2. To successfully meet all training objectives while complying with environmental laws and regulations, it is essential to consider environmental concerns while planning training operations and exercises. Proper planning will preserve all training facilities for future generations of Marines. Therefore, it is essential that training units adhere to the provisions of this Chapter. All users of ranges and training areas are responsible for knowing and adhering to applicable environmental laws and regulations, including, but not limited to, the current Fire Danger Rating and restrictions associated with the environmentally sensitive areas identified on the MCAS Miramar EMD Sensitive Habitat Map. This GIS map may be obtained through the MCAS Miramar EMD. Questions with respect to applicable environmental regulations may also be referred to EMD at DSN 267-4088/1108.

2001. ENVIRONMENTAL CONSIDERATIONS AND RESTRICTIONS

1. To comply with federal, state, and local laws for the protection of the environment, special care must be taken when conducting training in sensitive environmental areas. When planning training events, refer to the Sensitive Habitat Map to determine locations of sensitive areas, and use the guidance found in this Chapter to determine applicable restrictions in those areas.

2. Submission of environmental documentation is not required for squadron and smaller-sized units utilizing the training areas and ranges for purposes specifically outlined in this manual, providing they strictly adhere to the environmental restrictions associated with each range. Environmental assessment documentation need not be submitted if training is in accordance with this Order.

However, training activities not in compliance with this Order will require submission of a comprehensive and detailed description of the proposed training and, if applicable, preparation of environmental assessment documentation. Exercise commanders must coordinate with TAMO and EMD to determine the level of environmental documentation required for exercises larger than a Squadron in scale, and when environmental restrictions in this manual conflict with training requirements. The following coordination lead-time is recommended for those actions requiring formal environmental documentation from EMD:

- a. Company/Squadron size: 60 days.
- b. Battalion size: 90 days.
- c. Regiment size: 120 days.
- d. Larger than regiment: 150 days.

3. Wetlands. Wetlands are found throughout MCAS Miramar, typically in valley bottoms, and are characterized by soil types, hydrology, and specific vegetation. Their distribution is not limited to "wet" areas. Activities in wetlands involving soil disturbance and/or fill will require a permit, and impacts to wetlands supporting threatened or endangered species will require special consultation and approval. Vehicles operating in these areas will remain on existing roads and creek crossings. Troop movement on foot is authorized year round on existing roads, trails, and crossings. Foot traffic off of existing roads, trails, and crossings is authorized between 1 September and 15 February. Off-road vehicular traffic and excavations and/or fill occurring in wetlands must be reviewed by EMD, and receive appropriate permits prior to conducting the action.

4. Vernal Pools. Vernal pools are wetlands usually holding water for only one to four months during late winter and spring, and are known to occur in several training areas on MCAS Miramar. The highest densities of vernal pools are found in the West side of the Station; however, Training Areas 4 and 5 contain vernal pools as well. Many of these pools contain rare and federally endangered plant and animal species. When operating within the vicinity of vernal pools:

- a. Foot traffic is authorized year round outside of vernal pools. However, digging, including construction of fighting positions, is prohibited within the watershed area of vernal pools.

b. Vehicle/equipment operations near known vernal pool areas must be kept on existing roads, year round (especially in the winter). Contact TAMO prior to conducting activities.

c. Bivouac/Command Post/Field support (showers, messing, fueling, water purification, etc.) involving soil excavation, filling or grading activities will be kept to at least 100 meters (300 feet) from identified vernal pools.

5. Coastal California Gnatcatcher. Federally threatened California Gnatcatchers live in open, to dense coastal sagebrush areas. These small songbirds are year round residents of MCAS Miramar. Fires and other activities such as crushing or removing brush negatively affect these birds and their habitat. Activities involving loud noises, smoke, and concentrations of personnel disrupt their behavior, particularly during the breeding season between 15 February and 31 August. For the conservation of this protected species, the following measures should be followed for training activities in identified occupied coastal sagebrush areas:

a. Exercise extreme caution when conducting activities likely to cause a fire.

b. Foot traffic between 15 February and 31 August should be kept to existing roads, trails, and established training facilities to the maximum extent practical. Foot traffic may be authorized in California Gnatcatcher habitat areas between 1 September and 15 February; however, care must be exercised to avoid crushing or otherwise destroying brush vegetation.

c. Vehicle/equipment operations near known habitat must be kept on existing roads or previously cleared areas, year round. Avoid unnecessary noise. Activities involving soil excavation, filling, grading, or activities that alter the landscape are required to obtain written approval from the AC/S, Environmental Management.

d. Bivouac/command post/field support (showers, messing, fueling, water purification, etc.) activities will be kept at least 100 meters from California Gnatcatcher habitat areas year round.

6. Endangered Plants and Additional Sensitive Resources. Rare and federally listed plant sites are found throughout MCAS Miramar and, for the most part, are noted on the EMD Sensitive Habitat Map. For protection of identified sites, units training in the areas should take the following measures:

- a. Foot traffic is authorized in all training areas. However, digging, including construction of fighting positions, is not authorized at locations of endangered plants or additional sensitive resources.
- b. Vehicle/equipment operations near these sites must be kept on existing roads or previously cleared areas, year round.
- c. Bivouac/command post/field support activities must be kept a minimum of 100 meters away from these sites.
- d. Live or dead trees, shrubs, or other vegetation shall not be damaged, cut, or removed during training. Any damage must be reported to TAMO at the earliest opportunity. Units are encouraged to make maximum use of artificial camouflage, ghillie garb, nets, etc.

7. Archaeological and Cultural Resources

- a. Archaeological sites are located throughout MCAS Miramar. Archaeological sites are the physical remains of the lives and activities of the people who lived in the prehistoric or historic past, and may include artifacts such as stone (arrowheads, projectile points), human bone materials, pottery, and other physical remains of life. Some sites are visible on the soil surface; others are visible only after some level of ground disturbance has occurred.
- b. Collection of archaeological and historic artifacts is prohibited by federal law. All training operations are restricted from, and the immediate vicinity around any identified cultural resources. Since all sites and their contents are protected under law, approval must be obtained from the EMD prior to any activity adversely impacting archaeological sites. Following measures associated with the resources identified on the EMD Sensitive Resources Map as outlined in paragraphs 2001.3 through 2001.6 herein; will avoid adverse impacts to archaeological sites.
- c. When conducting operations away from known archaeological sites, the following precautions should be taken if archaeological materials are discovered on the ground or below soil surfaces:
 - (1) Notify the EMD/TAMO as soon as possible if a new site is discovered (with the exact grid coordinates, if possible, and site description).

(2) Notify TAMO/EMD if trespassers (un-documented personnel) are observed in any archaeological sites.

(3) Materials should not be removed from the area. If Human bone material (to include fragments) is discovered during any operation, the area must immediately be evacuated, leaving the remains intact. Notify EMD and TAMO as soon as possible.

2002. ENVIRONMENTAL PROCEDURES

1. The following activities are prohibited on all ranges and training areas aboard MCAS Miramar. Violation of these provisions may result in disciplinary action under the Uniform Code of Military Justice, or prosecution in state or federal court. Violation of these provisions may also result in potential adverse impacts to future training opportunities aboard the Station.

a. Burying, dumping, abandonment, or otherwise disposing of trash, rubbish, or garbage except at established landfills and per current directives.

b. Burying, dumping, abandonment, or otherwise disposing of any type of explosive material, pyrotechnic or chemical ammunition, or any type of hazardous waste except at the EOD Range during EOD Emergency Responses and/or Emergency Destruction Training.

c. Draining or spilling of oil, fuel, or any other hazardous or regulated substance from vehicles or other machinery, or from any container onto the ground, or into the water.

d. Removal or intentional destruction of rare plants, trees, brush, cactus, or any other vegetation. Cutting or otherwise removing tree limbs or large portions of any other plant is also prohibited.

e. Hunting and/or harassment of all wildlife, including birds is not allowed. Killing of poisonous snakes is not expressly prohibited, however, most snakebites, on the Station have resulted from untrained individuals trying to handle snakes. First response should be to avoid disturbing or killing any reptile. When required, contact the Public Works Department at (858) 577-1609/1619, or Civilian Animal Control for snake removal at the earliest possible opportunity.

f. Removal, defacement, or intentional destruction of archaeological materials or artifacts or the disturbance to any archaeological site.

g. Consult with the EMD and Public Works Department prior to conducting any earth work on impact berms. Lead toxicity levels must be determined prior to earthwork commencing by a qualified industrial hygienist.

2003. AREAS PROHIBITED TO TRAINING

1. Prohibited land areas include:

a. Cantonment areas except those facilities specifically designated for training, (e.g., swim tank, parade deck).

b. Designated historical/archeological sites.

c. East Miramar Ammunition Supply Point (ASP).

d. East Miramar EOD Range, except for authorized EOD training.

e. Landfills.

f. MCAS Miramar Golf Course.

g. Installation Restoration and National Priority List (NPL) sites.

h. Any area where training land restoration and erosion control work is ongoing. These areas will be marked with appropriate warning signs and fences.

i. All training areas, ranges and field training facilities are off-limits to units and personnel unless the training area, range, or field training facility has been properly scheduled; or specifically permitted by TAMO.

j. Training in the vicinity of rivers, creeks, and natural drainage will require special consideration and, therefore, is subject to the provisions of paragraph 2001 of this Order, as applicable based on the most current EMD Sensitive Resources Map.

k. Areas marked with signs "Off Limits for Environmental Reasons," "California Gnatcatcher Nesting Site," "Wetlands," or similar language are off-limits to training units.

l. Do not park vehicles or heavy equipment under the canopies of trees. Do not dig any holes under the canopies of trees. Such activities damage the root systems, eventually killing the trees.

m. Operation of vehicles off of paved roads during periods of peak soil moisture conditions frequently results in severe gullying and training land degradation. This leads to decreased training opportunities and hazardous conditions that create safety concerns. Whenever possible, vehicular traffic should remain on paved roads following significant rainfall.

n. Additional operational restrictions to comply with environmental laws and regulations, other than identified above, may be imposed on training within environmentally sensitive areas as identified on the MCAS Miramar Special Training Map (when published) and the EMD Sensitive Habitat Map. Specific operational restrictions for sensitive areas are delineated in paragraph 2001.

2004. POLICE OF RANGES AND TRAINING AREAS

1. Police of ranges, training facilities and training areas is the responsibility of the using unit command. All solid waste generated on the ranges, training facilities, and training areas, including cardboard, wrapping materials, food waste, communication wire, expended brass, and ammunition containers must be removed from those areas. No unit will depart their training location until that area is in a proper state of police. Exercise units shall dedicate adequate time to range, training facility, and training area police prior to the departure of any exercise units.

2. Dumpsters will not be provided at ranges or training areas unless individually coordinated with the MCAS Miramar Facilities Maintenance, PWD. Major exercises may also coordinate delivery of dumpsters with PWD.

3. Hazardous materials (e.g., paint, POLs, etc.) used while training, shall be stored in approved, closed, leak-proof containers. All hazardous materials shall be clearly marked, identifying the contents of the container. All hazardous material spills shall be reported immediately to TAMO 7-1448, the Fire Control Center 7-4059 and the Director, Waste Management Division 7-1087. Units should use available resources to prevent and contain spills at or near the source of the spill, and submit

required formal spill reports to EMD. Hazardous waste shall be removed daily from ranges and training areas by the generating unit.

2005. FIELD HEADS, URINALS, AND WASTEWATER

1. Any organization assigned to a range and/or training area is responsible to properly police and clean heads and urinals in their assigned area. No garbage or trash will be disposed of in any head, urinal, or chemical toilet.

2. Temporary sanitary facilities (chemical toilets) must be used in all training areas. Chemical heads may be coordinated through Station property. Users must also coordinate with TAMO on planned placement of field heads to ensure they are clear of restricted areas. The chemical heads and head facilities must be kept away from rivers, creek beds, and watercourses. For safety reasons, ensure that toilets are checked for poisonous insects and other hazards prior to use.

3. Wastewater from temporary showers (greywater) may be discharged to land if a local permit is obtained through EMD. Provisions shall be made to ensure that all discharged shower water shall percolate at the site of discharge and not flow to surface waters or dry watercourses. Discharge of greywater from new permanent facilities must be permitted through EMD. All greywater disposals shall comply with preventive medicine regulations and standards for military field operations.

4. Messing spoils shall not be disposed of to surface waters, or the ground. All messing spoils shall be disposed of as wet garbage at appropriate disposal sites. Liquid messing wastewater shall be collected and transported for disposal at a sanitary sewer. No field disposal of liquid messing wastewater is allowed.

5. Washing Vehicles. Exterior clear water washing/rinsing of vehicles during Nuclear Chemical and Biological training is permitted, providing that only clear water with no detergents or degreasing solvents is used. Engine or undercarriage cleaning or washing is strictly prohibited unless at an approved vehicle wash rack.

2006. FIELD DRINKING WATER SUPPLY

1. All connections to the water system should be attached in such a manner as to prevent cross-connections and back-siphoning from a contaminated source to the potable distribution system. Prevent water hoses at vehicle filling sites from contacting any source of contamination, including the vehicle, ground, tools, and equipment.
2. Units must obtain approval from the MCAS Miramar PWD, Facilities to pump water from any lake, pond, stream, river, well, storage area, sitting irrigation pumps, and well drilling equipment. Water drawn from the Station distribution system for further transport and use as potable water should be protected from accidental contamination. All hoses or valves marked "potable" shall be kept scrupulously clean at all times.
3. Report all instances of water pipe breaks, valve and pipe leaks, and other system failures to the MCAS Miramar PWD.

2007. OPERATION OF VEHICLES

1. Vehicles will use existing secondary (dirt or decomposed granite (DG)) roads within training areas whenever possible. The speed limit is 25 mph for all areas unless otherwise posted.
 - a. Administrative vehicle traffic should use existing roads and paths to or within the established camp, command post, or bivouac site, to the maximum extent possible.
 - b. Vehicles operating adjacent to creek or riverbeds will use existing roads and stream crossings. Refer to paragraph 2001 for specific environmental restrictions in these areas.
 - c. Unit commanders are requested to use prudent judgment in the scheduling and conduct of training and exercises that might result in heavy vehicular traffic.
 - d. No off-road activities by vehicles (HMMWVs, etc.) will be permitted until an environmental assessment and regulatory consultations are completed.

TRAINING AREA REGULATIONS

CHAPTER 3

TRAINING AND GROUND OPERATIONS

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CHAPTER 3

TRAINING AND GROUND OPERATIONS

3000. RANGE OPERATIONS

1. Establishment. The CG, MCAS Miramar, establishes all ranges. Requirements and recommendations, which will improve ranges and range facilities, should be submitted to the AC/S, G-3 Training.

2. Maintenance. The Marksmanship Training Unit (MTU) and the Public Works Department, Facilities Maintenance Division accomplishes maintenance of live-fire ranges.

3. Operations

a. All Known Distance (KD) ranges, and ranges equipped with electrical targets or simulators will be operated only by MTU personnel.

b. All ranges and training areas are under control of the CG, and in those cases where units are the primary user, the unit inherits no title to those ranges and possess no authority to modify nomenclature, purpose or design of any range without specific approval of the CG, MCAS Miramar.

c. Range Control personnel are authorized access to all ranges and training facilities for the purpose of inspection, operation, or maintenance at all times. Range Control personnel should not disrupt unit training, except when necessary to perform their duties. Training units will not interfere with these personnel in the performance of their duties even if the range or facility is in use.

d. Targets

(1) Targets for firing required by reference (a) will be supplied by the Marksmanship Training Unit for KD Ranges.

(2) Targets and target material for Station and Wing intramural firing will be furnished by the MTU. The firing unit will provide targets and target materials for other recreational firing.

3001. RANGE CONTROL FEATURES

1. Range Signs and Markers. Range signs and markers are provided on all ranges to indicate firing lines, lateral limits, range number, and other information. The signs and markers are described below.

a. Surveyed Monuments. A white concrete monument placed near the center of firing lines.

b. Firing Line Markers

(1) Left: Small, white concrete monument.

(2) Right: Small, red concrete.

c. Fan Markers

(1) Left: 4' x 4' to 12' x 12', white and black checkerboard, square wood sign.

(2) Right: 4' x 4' to 12' x 12', orange and black checkerboard, square wood sign.

d. Range Number Signs. A sign and/or flagpole bearing the range number. Normally black numbers on a white background.

e. Hearing Loss Signs. A sign warning users that hearing protective devices are required.

f. Off Limits Signs. A sign warning that the area is off limits by order of the CG, unless scheduled through the TAMO Scheduling Office.

g. Additional signs that are self-explanatory in nature, announcing specific instructions or precautionary measures, will be posted on certain ranges as deemed necessary by TAMO and MTU.

2. Barricades and Range Guards. Either barricades or range guards must cover normal approaches to dangerous areas created by firing. Barricades combined with appropriate warning signs are adequate and range guards are not required except in special cases.

a. Barricades. Barricades, when required, will be provided by the TAMO and MTU for all roads and trails leading into range areas. There are two types of barricades:

(1) Portable barricades consisting of a sawhorse-like structure at least two feet high placed directly across the road. A sign with letters three inches high stating, "Laser/Live-Firing in Progress, Keep Out" will be attached to the cross member so as to be clearly visible to anyone attempting to enter the range area.

(2) Permanent barricades consisting of heavy posts embedded on both sides of the road or trail with a chain, or rope stretched between the posts, the lowest point to be at least two feet above the ground, with the signs attached to the chain. Such chains or cables will be locked in place.

(3) Firing units shall ensure that barricades are in place prior to firing.

b. Range Guards

(1) Range guards shall be posted to prevent entry into the danger areas that cannot be observed or which do not lie within the established impact areas. Normally, range access roads are not within this category and do not require a range guard.

(2) Officers In Charge (OICs)/Range Safety Officers (RSOs) may post additional range guards as necessary to ensure safety. The arbitrary blocking of roads or the denial of access to other than a danger area is not permitted.

(3) Range guards shall be provided with a means of communication and an appropriate quantity of water, food and shade by the unit posting them.

3. Warning Flags and Warning Lights. During daylight hours, the warning flag will be raised whenever firing is in progress. During hours of darkness, a blinking red light facing to the rear of the range will be in place. The flag and the light will be issued by TAMO or MTU to the RSO or unit representative prior to range use. Contact TAMO at 7-1446/7-1448 or MTU at 7-1788/4714 to coordinate checking out lights.

3002. PROCEDURES FOR RANGE CHECK IN/OUT

1. Once all regulations and safety requirements have been satisfied, the MTU OIC will notify TAMO for clearance to authorize the unit to go "hot."

2. The RSO shall be physically present at the range or firing position whenever live-fire is in progress. If it becomes necessary to change RSO's, the old and new RSO's must be physically present at the range or firing position to conduct a face-to-face relief, and receive authorization from the TAMO or MTU OIC.
3. At the conclusion of firing, the RSO shall ensure all weapons and munitions are secure and notify the MTU OIC. The MTU will then notify TAMO of the range "cold" status.
4. The EOD Demolition Range is cleared "Hot" at the discretion of the EOD Officer/Senior EOD tech present after notification has been made to the Officer of the Day (OOD), Air Field Operations Department (G-3), and PMO Dispatch. Range "Cold" notification will be made to the same departments.

3003. AUTHORIZATION TO FIRE. No firing will be conducted unless it has been scheduled with TAMO Scheduling, and authorized by MTU OIC immediately prior to firing.

3004. BIVOUACKING ON RANGES

1. Bivouacking is not allowed on MCAS Miramar live-fire ranges.
2. Bivouacking is permitted at bivouac site 1 (MG922375) and 2 (MG938389). Use of other areas aboard MCAS Miramar may be approved under special request through TAMO.
3. Bivouacking shall comply with the provisions of Chapter 2 of this Order.

3005. MEDICAL REQUIREMENTS

1. A corpsman with first aid equipment will be present on all live-fire ranges, and shall not be assigned any additional duties when live-fire is in progress. The term "live-firing" includes any caliber of ammunition, hand or rifle grenades, demolitions, rockets, or any other ordnance capable of producing an explosion or high rate of burning. Additionally, a vehicle designated as a safety vehicle must be located at all ranges during live-firing. Whenever possible, this vehicle should be an ambulance. The presence of one hospital corpsman and one safety vehicle is the minimum requirement.

2. A corpsman is required to be present during training at gas chambers with communication capability to request an ambulance at all times.
3. Competent medical personnel or the senior Marine on site must determine a medical emergency. Sound judgment is paramount in any successful emergency or routine MEDEVAC.
4. There are three categories of MEDEVAC:
 - a. Emergency, (Life threatening), requires immediate response, aircraft if possible.
 - b. Priority, (Non-life threatening), evacuation may be made by air or ground assets.
 - c. Routine, (Minor injuries), evacuation is by ground only.

3006. ACCESS AND EGRESS

1. The authorized points of access and egress onto MCAS Miramar are the Main Gate (East Gate) off Kearney Villa Road (MG 8938), the North Gate off Miramar Road (MG 8739), and the West Gate (for military/decals vehicles only) off Miramar Road (MG 8537). These are guarded gates, be prepared to provide identification.
 2. The authorized point of access and egress onto East Miramar training area is the Camp Elliot Gate off of Kearney Villa Road (MG 8834). This gate is a guarded gate. Be prepared to provide identification upon request.
 3. The Pomerado Road access onto East Miramar is only authorized for units assigned to the Navy and Marine Reserve Center (i.e. 4th Tanks). Users must be prepared to provide identification.
 4. The Kearney Villa Road underpass (gate PG-15, MG 8936) can be scheduled for unit hikes/force marches, etc. through PMO. Coordination is required at least 3 days in advance. Be advised that this is also an ammunition supply route from the Ammunition Supply Point to the flight line. Use caution.
- Note: This route traverses sensitive habitat areas; see Chapter 2 for restrictions.
5. Should it become necessary to close/open another point of entry, coordination will be conducted between G-3, TAMO, G-4, and

TRAINING AREA REGULATIONS

PMO, then an appropriate announcement will be made to the user only.

3007. TRAINING AREAS. MCAS Miramar training areas are delineated below:

TA1	MG9939	2131 Acres	Field Training	Seasonal Restriction*
TA2	MG3738	1021 Acres	Field Training	Seasonal Restriction*
TA3	MG9438	303 Acres	Field Training	Open all year
TA4	MG9339	928 Acres	Field Training	Seasonal Restriction*
TA5	MG9035	297 Acres	Range/Engineer Park	Live-fire SDDS Range, Brown Range, Range Charley & Delta
TA6	MG9540	3500 Acres	Rifle/Pistol Range	Rifle/Pistol Range
TA7	MG9540	3 Acres	NBC Chamber	3d MAW NBC School
TA8	MG8737	2 Acres	Outdoor Classroom	Snap-in Training
TA9	MG8537	4 bays	IMST/IST	Marksmanship
Pool	MG8838	50 Meters	Outdoor Swim	MCCS co-use
Theater				
	MG8838	1500 seats	Briefings	MCCS co-use

*Off limits from 15 Feb to 1 Sep for Gnatcatcher Breeding.

1. Areas are under Master planning consideration.
2. Field Training Areas (TA) 1 through 4 are available for tactical exercises and field training and are delineated on the MCAS Miramar Special Training Map (issued separately through TAMO).
3. Training Area 5 consist of the old Known Distance range, currently under review as a engineer heavy equipment training area;

the San Diego Sheriff's Department training center, Duffy Town live-fire range; MTU Brown pistol range.

4. Training Area 6 is the new Rifle and Pistol Range and impact area, currently under design and scheduled for completion during 2003.
5. Training Area 7 is the 3d MAW NBC School complex. The last Wednesday of each month is open schedule for non 3d MAW personnel NBC defense training. Additional days are available as required.
6. Training Area 8 is the multipurpose outdoor classroom in vicinity of building 8656.
7. Training Area 9 is the Indoor Simulated Marksmanship Trainer (ISMT) located in building 8671, South hanger bay.
8. The Water Survival Training Facility is the 50-meter pool swimming facility located by building 2395. Water survival training and certification classes are scheduled through the TAMO.
9. The Station Theater, building 2242, is available for large assemblies and briefings and is scheduled through the TAMO.
10. Organizations using field-training areas have the responsibility to provide an emergency vehicle and corpsman. Units will check in and out by radio with TAMO upon commencement and termination of training in their assigned area. In the initial call, give the following information: unit identification, type of training, number of troops, type of ordnance by DODIC, and unit's location by giving a six digit grid coordinate.
11. Corpsman and safety vehicle shall accompany all hikes. All hikes must be scheduled through the TAMO Scheduling Office. A proposed hike route must be provided to the TAMO Scheduling Office at least four (4) days prior to the planned hike. Units must have a reliable means of communications with TAMO in the event of an emergency. All changes to hike route while on the march must be approved by TAMO. An overlay of the proposed hike route must be provided with the request. Overlays can be delivered to the TAMO Scheduling Office or faxed to extension 7-1450.
12. Individual training exercises and events conducted aboard MCAS Miramar Training Areas shall comply with the provisions of Chapter 2 of this Order. Refer to the MCAS Miramar Sensitive Habitats and

the most current Environmental and Natural Resource GIS Data Map for specific locations of these resources.

3008. CONDUCT OF TRAINING

1. In those training areas, which contain ranges, or are adjacent to impact areas, ensure that personnel do not enter the range or impact area. Assignment to a training area does not include any range, airspace, or other training facility located within that area unless specifically requested and approved.
2. Training must be conducted and supervised to avoid damage to facilities and utilities located within the training areas.
3. Training must be conducted without unnecessary damage to or destruction of natural resources and in compliance with the provisions of Chapter 2 of this Order.
4. Units utilizing TA4 will remain clear of the housing areas at all times. Entry into TA4 will not be made via Pomerado access roads. See paragraph 3006, above.
5. Fighting holes, when authorized, will be filled in upon the completion of each training exercise.
6. Trash will not be buried in any training area. If it is impossible to haul trash away during exercises, arrangements must be made to have it removed immediately upon completion of the exercise. The practice of stockpiling refuse for removal later is not permitted. Police of training areas is the responsibility of the using unit.
7. Training areas are not exclusive use areas. Training areas are assigned based upon the number of personnel, equipment, environmental impact, and training conducted.
8. A prohibited area, marked by signs, exists along TA3 and the training area surrounding the magazine area. It extends out 500 meters from the perimeter fence, the use of pyrotechnics of any type within 500 meters of the magazine area is strictly prohibited.
9. All communication wire laid by using units in training areas must be retrieved prior to departure. Any wire that is strung across ravines, between poles or trees, or at an altitude higher than one (1) foot above ground level must be clearly marked with white engineer tape or other highly visible material.

10. In the event livestock (cows, etc.) or wildlife (coyote, snakes, etc.) are in a location where their presence interferes with training, or is a hazard to the troops, notify TAMO as soon as possible.

11. Use of built-up areas (Atlas Road complex) for tactical field training must be approved by the AC/S, G-3 Training.

3009. RIVER BOTTOMS AND CREEK DRAINAGE AREAS. The entire length of the Rose Canyon Creek bed from the Interstate 805 boundary to the Eastern MCAS Miramar boarder and the section of the San Clemente Canyon that traverses MCAS Miramar boundary, are designated as restricted areas.

1. TA1, 2 and 4 have dry to intermittent creek beds. Training in these areas will be subject to the following conditions:

a. Foot traffic off existing roads, trails, and crossings is authorized between 1 September and 15 February.

b. Tracked or wheeled vehicle movement is authorized on established roads only. Crossing in creek/river bottom areas is restricted to established road crossings.

c. Bivouacking in the river-bed, is not authorized.

d. Personnel may not dig or fill in river, creek or stream beds, nor in any manner disturb plants or wildlife.

2. These restrictions are necessary to prevent erosion and to protect the endangered species, which live in the creek and river-bed areas.

3010. LIVE-FIRING IN TRAINING AREAS. Live-fire in training areas is limited to established ranges.

3011. IMPACT AREAS. Detailed descriptions of Range Alpha (Duffy Town) Brown Range, Range Charlie and Delta, and Green Farms Ranges are provided in Appendix C.

3012. LASER AREAS. Laser operations will be controlled and conducted under the same restrictions as live-fire ranges.

3013. INFANTRY WEAPONS1. Small Arms

a. Safety precautions will be strictly adhered to as prescribed by appropriate Field Manuals, reference (b) and this Order.

b. Pistol ranges are authorized to fire up to .45 caliber.

c. Rifle ranges are authorized to fire up to 5.56 MM.

d. No overhead or flanking fire is authorized.

2. Machine Guns and Mortars. MCAS Miramar has no ranges approved for live-fire using machine guns (M240G, M249, etc.) or mortars (60mm, 81mm, etc.).

3014 DEMOLITIONS

1. General. All explosive and demolition training shall be coordinated through Station EOD and TAMO.

a. These regulations apply to the use of all types of explosives and demolition equipment in training. Instructions in reference (b) will be observed.

b. The Demolition Control Office and/or a designated representative are responsible for clearing all misfired demolition charges after the appropriate waiting time has been observed IAW NAVSEA SW060-AA-MMA-010.

2. Demonstrations. Demonstrations, with the exception of some breaching by the San Diego Sherrif's Department and the Air Show, are not normally permitted.

a. Request approval for demonstrations from the AC/S G-3T.

b. Requests for approval of such demonstrations will contain the following information:

(1) Date, time and location of demonstration.

(2) Exact placement, quantity, and composition of charges.

(3) Measures for control and safety of spectators.

c. Critical base utility points that may require crossing and could be subject to damage. Refer to Public Works or call the Director, Facilities Maintenance Division at (858) 577-1109/1026).

d. The Environmental Management Department shall be consulted in planning for demonstration demolitions to address potential permit requirements.

e. The following safety measures will be used when employing demolitions in conjunction with maneuvering troops in training exercises and demonstrations:

(1) An officer or staff noncommissioned officer will be appointed as Demolition Control Officer.

(2) The Demolition Control Officer will have a public address system, a powered megaphone, or signal flare with which he can halt the play of the exercise in the event of a malfunction or misfire without referral to the OIC of the exercise.

(3) A single centralized firing position, with a clear view of the demolition area will be used and controlled by the Demolition Control Officer.

(4) All demolition pits shall be clearly marked with engineer tape or barbed wire. Charges will not exceed 1/4 pound of explosive.

(5) Troops shall not maneuver in, through, or within 100 meters of demolition pits during the hours of darkness. Use of demolitions at night is extremely limited, and subject to EOD and TAMO approval. The entire demolitions area will be enclosed with a single strand of barbed wire (cow fence). The RSO will have an unobstructed view of the entire demolition area at all times.

3015. NON-LETHAL WEAPONS

1. The term "non-lethal" should be understood as a function of intent. Zero mortality is a goal, not a guarantee for these weapons and munitions.

2. The concept of employment requires approval by TAMO and MTU OIC. Users will provide their own targetry.

3. Non lethal munitions (NLM) are authorized on MCAS Miramar Brown, Charlie and Delta ranges as follows:

DODIC	TYPE	DESCRIPTION
AO12	CTG 12 GAGE	INERT
AA29	CTG 12 GAGE	BEANBAG
AA30	CTG 12 GAGE	BLANK LAUNCHING
AA31	CTG 12 GAGE	FIN STAB RUBBER
BA07	CTG 40MM	FOAM RUBBER BATON
BA08	CTG 40MM	RUBBER BALL
BA09	CTG 40MM	WOOD BATON
DWBS	CHG	DIVERSIONARY/FLASHBANG

3016. POLICE OF TANK AND OTHER VEHICLE CROSSINGS

1. Commanding Officers, OICs, or NCOICs of vehicles using authorized tank crossings or making an emergency crossing of hard-surfaced roads shall ensure that crossings are properly policed immediately after use. Proper police includes removing of soil, rocks, debris, and dunnage from the paved surface of the road, leveling the shoulders of the road, and cleaning drainage ditches paralleling shoulders of the road.

2. When it is necessary for tracked vehicles to transit wheeled vehicle access roads in training areas, crossings will be made at right angles to the road at low speed without turns. When it is necessary for tracked vehicles to operate on these roads, the approach shall be made at the minimum angle possible to avoid sharp turns on the road surface. Speeds shall not exceed five miles per hour. Do not hold up traffic more than ten minutes.

3017. EXPERIMENTAL WEAPONS ORDNANCE. Experimental Weapon Ordnance is considered non-standard and the use thereof will be evaluated on a case-by-case basis. Request to use experimental ordnance should be directed through TAMO, Safety (ESO), and Station EOD.

TRAINING AREA REGULATIONS

CHAPTER 4

FIRE PREVENTION

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TRAINING AREA REGULATIONS

CHAPTER 4

FIRE PREVENTION

4000. GENERAL

1. Most wild land fires result from careless acts rather than being unpreventable training accidents. All reasonable means available must be taken to prevent such fires, and to reduce damage when they do occur. All personnel must be aware of the dangers of fire at MCAS Miramar, and train in a manner that will minimize the risk of fires.

2. Flame, heat producing devices, pyrotechnics, blank ammunition, or training activities that could cause a fire are prohibited unless specific approval is granted, in writing, by TAMO. Units should not plan to use any heat, spark or flame producing device(s) from July through October unless such use is essential to training objectives and no alternatives are available.

4001. FIRE DANGER RATING (FDR)

1. In order to reduce the danger from brush fires while also accomplishing maximum training during the dry season, the CG, MCAS, Miramar publishes FDRs. FDRs are applicable to all organizations and individuals aboard MCAS Miramar, whether in a training or off-duty status, and while using ranges, training areas, or impact areas.

2. Fire Danger Ratings are defined as follows:

CLASS OF FIRE DANGER	CAUTION TO BE EXERCISED	NECESSARY PRECAUTIONS
<u>Blue 1 - 30</u> (LOW)	Use normal caution.	All approved ammunition may be used. Smoking is not permitted in brush areas.
<u>Green 31 - 40</u> (MODERATE)	Use normal caution. Fire will start easily.	All approved ammo may be used. No smoking allowed in training areas.

TRAINING AREA REGULATIONS

<u>Yellow 41-60</u>	Use extra caution. Fire will start easily. Yellow is the beginning of the high danger period.	No heat or flame-producing devices are allowed in field training areas, except field mess kitchens in approved bivouac sites. Smoking is not permitted.
<u>Orange 61-80</u> <u>(HIGH)</u>	Use extreme caution fires started spread quickly.	No heat or flame-producing devices are allowed in field training areas. Live firing is limited to mandatory qualification only, unless otherwise restricted by TAMO. Smoking is not permitted in all field-training areas.
<u>Red 81 & UP</u> <u>(EXTREME)</u>	Flash condition. The highest class of fire danger. Fires started are practically impossible to extinguish. The utmost caution must be exercised at all times.	Live fire is restricted to Mission Essential training (i.e. pre-deployment) only! The use of any other type live ordnance training, heat or flame producing devices (heaters, welders, stoves or open flames) is strictly prohibited.

3. Dissemination

a. The FDRs are determined by the MCAS Miramar Fire Department and TAMO, and disseminated as required to the using units.

b. When the FDR reaches RED, a notice re-enforcing the FDR will be sent by the AC/S, G-3 Training (via the Station Command Duty Officer during non-duty hours) to all units at MCAS Miramar.

4. Action

a. OICs/RSOs will allow firing or training to commence only after ascertaining that the FDR is in effect and adopting the appropriate fire prevention measures.

b. TAMO will notify RSOs of changes as they occur.

c. In the event of a brush fire on any range, impact, or training area, the OICs/RSOs will immediately notify Fire Dispatch at 577-4059 by the most expeditious means possible stating the exact location and extent of the fire. The OICs/RSOs will remain in the area with their unit subject to the orders of the Station Fire Chief.

d. The OIC, TAMO will monitor all range and training area fires as they occur, and is authorized to assist the Base Fire Chief to safeguard government property and personnel. This includes the control of firing and the removal of units from training areas threatened by fire. Maximum effort will be made not to interfere with scheduled training. However, safety considerations shall take precedence.

e. Fires will not be started on any range or in any training area except at authorized bivouac areas and approved by TAMO. Cutting of trees and brush for such fires is prohibited per paragraph 2001.1 of this Order. Fires will be carefully extinguished prior to leaving the area. FIRES WILL NOT BE PERMITTED WHEN THE FDR IS **YELLOW, ORANGE, OR RED.**

4002. FIRE PROCEDURE

1. Personnel training on MCAS Miramar will not generally engage in fire fighting.

2. Upon discovering a fire in a training area, the senior person present will determine whether personnel present can extinguish the fire, it is important to remember, however, that fire fighting is, at best, a very dangerous activity. Without proper training, fire fighting can be deadly. In making this determination, the following facts should be considered with the greatest importance placed on safety of personnel:

- a. Size and type of fire.
- b. Speed at which the fire is spreading.
- c. Probability of injury to those personnel who will attempt to extinguish the fire.
- d. Probability of damage to government property.
- e. Equipment available to combat the fire.

3. Upon discovering a fire, the senior person present should take the following steps:

a. Contact the Miramar Fire Department by emergency number 99-911 (from a 577 prefix phone) or call (858) 577-4059 if using a cell phone. Be prepared to give fire size, location (grid coordinates/magnetic heading/direction), and type fire (e.g. brush fire, vehicle fire, fuel fire, etc.).

b. Evacuate all personnel and equipment to safety as long as the removal of equipment does not endanger personnel.

c. Inform TAMO, and remain in the area subject to the orders of the Fire Department.

4003. FIRE PROTECTION. The following provisions shall be adhered to when utilizing any training area aboard MCAS Miramar.

1. "Open Flames" are NOT authorized, except as noted in paragraph 4001.4e. A "No Smoking" rule will be enforced in any brush area aboard MCAS Miramar.

2. Power generation equipment requirements:

a. There must be a clear area of at least six feet in diameter around the piece of equipment.

b. Units must provide a five pound or greater BC fire extinguisher and a 2A rated fire extinguisher on site. These must be located within ten feet of the equipment.

c. A qualified operator must be positioned near the equipment, when operational, to act as a safety watch.

3. Petroleum Oil Lubricant (POL) storage facilities for field requirements:

a. A ten pound BC rated fire extinguisher must available and positioned within ten feet of the POL site.

b. The area must be marked as a POL site.

c. The POL site must be bunkered to protect it from fire.

d. Spill containment measures are required. Spill response

equipment must be available. Personnel trained in the use of spill response equipment must be on site.

e. Spills must be reported to the TAMO immediately.

4. Field Mess requirements:

a. A five pound or greater BC rated fire extinguisher must be available for each burner unit.

b. Field Mess Kitchens shall only be operated in an open clear area.

c. Units requesting to operate a Field Mess site must submit a fire plan to the MCAS Miramar Fire Service through TAMO. The unit safety officer shall ensure all members of the unit are briefed on fire safety and the fire plan prior to field mess operations.

TRAINING AREA REGULATIONS

APPENDIX A

LIST OF APPLICABLE REFERENCES

<u>DIRECTIVE NUMBER</u>	<u>SUBJECT</u>
DAFM 21-48	Planning and Conducting CBR and Nuclear Defense Training.
MCO 3570.1A	Policies and Procedures for Firing Ammunition for Training, Target Practice, and Combat.
MCO 3574.2J	Entry Level and Sustainment Level Marksmanship Training with the M16A2 Service Rifle and M9 Service Pistol.
MCO 5090.2A	National Environmental Policy Act
OPNAVINST 5530.13	Department of the Navy Physical Security Instructions for Sensitive Conventional Arms, Ammunition and Explosives (AA&E).
MCO P8020.1F	Handling, Transporting, Storage, Reclassification, and Disposition of Class V(W) Material.
MCO 8025.1C	Class V (W) Malfunction and Deficiency Report.
FMFM 0-8	Basic Marksmanship.
StaO 1500.1	Marine Combat Water Survival Training.
StaO P3574.2	SOP for the East Miramar Small Arms Range.
StaO P3710.1S	Short title: Airfield Operations Manual.
StaO P8027.1	SOP for EOD.

TRAINING AREA REGULATIONS

APPENDIX B

DEFINITIONS

1. The definitions listed below are pertinent to this Manual, and are used throughout.

Air Sentry - An individual designated by the Officer in Charge (OIC) of Firing to maintain surveillance of an assigned sector of airspace to warn of the approach of aircraft.

Base - Marine Corps Base.

Cantonment - An area assigned for administrative and logistical functions, such as housing, troop billeting, offices, storage and maintenance areas. Normally, field training and live-firing are not conducted within cantonment areas.

Common Impact Area - The impact area created when the surface danger zones of concurrently used ranges overlap.

Consolidated Radar Control Facility (CRCF) - Marine Corps Air Station, Miramar, air traffic control facility, BLDG 9570.

Controlled Firing Area (CFA) - Airspace established to contain activities which if not conducted in a controlled environment, would be hazardous to nonparticipating aircraft. It is the user's responsibility to provide for the safety of persons and property on the surface and to cease firing when aircraft transit the CFA.

Drop Zone (DZ) - A tactical landing zone in which personnel or cargo paratroops are authorized.

Dud - Explosive ordnance which has been primed, fuzed, armed, or otherwise prepared for action, and has been launched, placed, fired, thrown, dropped or released in such a manner as to constitute a hazard and remains unexploded either through malfunction or design or for any other cause.

Explosive Ordnance Disposal (EOD) - The detection, identification, field evaluation, render-safe, recovery, and final disposal of unexploded explosive ordnance (UXO). It may also include the rendering-safe and/or disposal of explosive ordnance (EO), which has become hazardous by damage or deterioration, when the disposal of such EO requires techniques, procedures, or equipment, which exceeds the normal requirements for routine disposal.

TRAINING AREA REGULATIONS

Field Training Facilities - Those areas designated for a specific type of training, normally not requiring the use of live ordnance.

Fire and Maneuver Range - Range on which troop movement and live-firing may be conducted simultaneously.

Fire Danger Rating (FDR) - Forestry Service rating based on weather conditions and fire burning indexes describing the potential for ignition, rate of spread, and suppression probability with regard to fires.

Firing Lane - The area within which an aircraft or vehicle-mounted weapon is fired. It consists of a start firing line, cease-firing-disarm line, and left and right limits of fire.

Firing Line or Point - The location from which a weapon is fired at a target or into an impact area.

Formal School - A school, or a course within a school, which produces, as a result of its Program of Instruction (POI), a Marine qualified in a Military Occupational Specialty (MOS). This definition includes Weapons and Field Training Battalion (WFTBN) Coaches and Primary Marksmanship Instructors Course.

Hangfire - Failure of a small arms primer to function immediately, which causes the weapon to discharge after several seconds has elapsed.

Impact Area - The area into which the fire of weapons is directed. It usually extends from the far boundary of the target line area to the maximum range of the weapon and ammunition fired. It is bounded on the flanks by the right and left limits of fire established in the surface danger area diagram for each type of weapon.

Landing Zone (LZ) - A pre-designated numbered helicopter landing zone which provides major commands a ready access to air transportation and medical evacuation.

Leased Area - Government property within the confines of MCB, Camp Pendleton that is leased to nonmilitary tenants, such as State Beach and agricultural areas.

Live-Fire Range - A range on which live-fire exercises, including the use of some types of practice ammunition, may be conducted.

TRAINING AREA REGULATIONS

Malfunction - Failure of munition to function in accordance with design, intent, or expected performance.

Maneuver Area - Two or more contiguous training areas designated and scheduled by a using unit for tactical exercises of company level or higher.

Military Munitions Rule (MMR) - Federal or state rule which governs types of EOD emergency response levels and identifies when conventional military munitions may become a solid hazardous waste.

Military Operations Area (MOA) - An airspace assignment established to separate/segregate certain military aircraft activities from IFR traffic and to identify for VFR traffic where these activities are conducted.

Misfire - A failure of a primer, initiation charge or propelling charge to function; a demolition charge fails to function; or a small arms primer fails.

No Fire Area (NFA) - A designated area into which neither live fires nor effects of live fire will occur.

Nonlethal - Also known as less than lethal. Pertains to training conducted with munitions not intended to be lethal.

Notice to Airmen (NOTAM) - A message to aircraft pilots in a specific area warning of airspace restrictions, equipment outages, and/or other factors that may affect flight activities.

NBC - Nuclear, Biological, and Chemical.

NBC Agents - Devices, biological agents and chemicals which may cause damage, incapacity, injury, sickness, and/or death.

Observation Post (OP) - A point from which impacting projectiles may be observed.

Officer in Charge (OIC) of Firing - An individual designated by the Commanding Officer of the training unit who assumes responsibility for all aspects of training to include but not limited to live-fire, paradrops, or air exercises.

Overhead Fire - Firing of projectiles over the heads of personnel, or over areas in which the presence of personnel is suspected.

TRAINING AREA REGULATIONS

Paradrop - The controlled aerial delivery by parachute of personnel or equipment.

Pyrotechnics - Non-injurious smoke or signals, either flares or grenades. White phosphorous is not considered a pyrotechnic for the purposes of this Manual.

Range - A training facility designated for live-fire, practice firing of weapons, demolitions, flame, or fire and maneuver exercises.

Range Guard - An individual designated to maintain surveillance over an assigned locale to prohibit unauthorized entry into a surface danger area, and to give the alarm in the event that entry is detected.

Range Safety Officer (RSO) - An officer or staff noncommissioned officer who has attended a range safety course and has received an RSO card who is assigned by the OIC of Firing to assist in enforcing all safety measures while operating in Camp Pendleton ranges/training areas.

Special Use Airspace (SUA) - Airspace wherein activities must be confined because of their nature and/or wherein limitations may be imposed upon aircraft operations that are not a part of those activities. Types of SUA include restricted areas, CFAs, military MOAs, and warning areas.

Station - Marine Corps Air Station, MCAS Miramar.

Surface Danger Zone (SDZ) - That segment of the range which is covered by a particular type of weapon firing. The area encompassing the entire range, as designated by the Commanding Officer of the installation, into which only authorized persons are permitted entry during conduct of a firing exercise.

Survey Control Point - A permanent or semi-permanent concrete or brass marker placed to denote a topographical reference point.

TRAINING AREA MANAGEMENT OFFICE (TAMO) - The MCAS Miramar Range and Training Area scheduling office: DSN 267-1448, Fax -1450.

Training Area - All areas on MCAS MIRAMAR outside of cantonment area boundaries.

TRAINING AREA REGULATIONS

APPENDIX C

RANGES AND TRAINING AREAS

RANGE: RANGE BROWN

LOCATION: GM903353

TYPE: Pistol Range (Known Distance)

ALLOWABLE WEAPONS: Pistols, revolvers **

RANGE FAN LIMITS: Baffled **

BOUNDARIES: N/A

MINIMUM RANGE: 7 Yards **

MAXIMUM RANGE: 25 Yards **

IMPACT AREA: TA5

ENVIRONMENTAL: There are several sections West and East of the range which form habitat for threatened (California Gnatcatcher), endangered, or sensitive species. The creek bed West of the Range access road is included and the area should not be disturbed. Approval is required with EMD prior to any grading, cut or fill operations. Brush cutting or mowing is limited to the immediate range complex.

RANGE FACILITIES: The range complex includes the range building (no.1304), Brown range (no. 1302) with firing lines at 7, 15 and 25 yards. Range Charlie (No. 1303) is.

ASSIGNED TO: CG MCAS Miramar

TELEPHONE: (858)577-1788 OR DSN 267-1788

** RANGE REGS POSTED AT THE RANGE SUPERCEDE THIS ANNEX

SPECIAL INSTRUCTIONS: This range is located within APZ-II at or below 1000 ft. AGL and aircraft have priority over firing.

TRAINING AREA REGULATIONS

RANGE: ALPHA (San Diego County Sheriff's Range)

LOCATION: GM904356

TYPE: Small Arms (Known Distance)

ALLOWABLE WEAPONS: Pistols, revolvers, Shotguns **

RANGE FAN LIMITS: Partially Baffled ** Duffy Town range limits extend beyond the reservation boundary and is restricted to sub-caliber use, 130 grain or less. No Magnum ammunition is authorized.

BOUNDARIES: Lease No. N6871192RP02P95

MINIMUM RANGE: 3 Yards **

MAXIMUM RANGE: 45 Yards **

IMPACT AREA: TA5

ENVIRONMENTAL: There are several sections West and East of the range which forms habitat for threatened (California Gnatcatcher), endangered or sensitive species. Approval is required with EMD prior to any grading, cut or fill operations. Brush cutting or mowing is limited to the immediate range complex.

RANGE FACILITIES: The range includes "Duffy Town" complex, the range building (no.E753), and range 5, 6, & 7.

ASSIGNED TO: San Diego County Sheriff's Department

TELEPHONE: (619)565-3070

** RANGE REGS POSTED AT THE RANGE SUPERCEDE THIS ANNEX

SPECIAL INSTRUCTIONS: This range is located within APZ-II at or below 1000 ft. AGL and aircraft have priority over firing.

TRAINING AREA REGULATIONS

RANGE: RANGE CHARLIE

LOCATION: GM903353

TYPE: Archery Range

ALLOWABLE WEAPONS: No firearms are authorized.

RANGE FAN LIMITS: Right and left lateral limits are bermed.
Firing will be conducted in the same
direction as Brown and Charlie ranges so as
to have one common impact area.

BOUNDARIES: N/A

MINIMUM RANGE: 7 Yards **

MAXIMUM RANGE: 50 Yards **

IMPACT AREA: TA5

ENVIRONMENTAL: There are several sections West and East of the range which forms habitat for threatened (California Gnatcatcher), endangered or sensitive species; The creek bed West of the Range access road is included and the area should not be disturbed. Approval is required with EMD prior to any grading, cut or fill operations. Brush cutting or mowing is limited to the immediate range complex.

RANGE FACILITIES: The range complex includes the range building (no.1304), Brown range (no. 1302) with firing lines at 7, 15 and 25 yards.

ASSIGNED TO: CG, MCAS Miramar

TELEPHONE: (858)577-1788 OR DSN 267-1788

** RANGE REGS POSTED AT THE RANGE SUPERCEDE THIS ANNEX

SPECIAL INSTRUCTIONS: This range is located within APZ-II at or below 1000 ft. AGL and aircraft have priority over firing.

TRAINING AREA REGULATIONS

RANGE: RANGE DELTA

LOCATION: GM903353

TYPE: Shotgun Range

ALLOWABLE WEAPONS: Shotguns.

RANGE FAN LIMITS: Right and left lateral limits are bermed.
Firing will be conducted in the same
direction as Brown and Charlie ranges so as
to have one common impact area.

BOUNDARIES: N/A

MINIMUM RANGE: 7 Yards **

MAXIMUM RANGE: 50 Yards **

IMPACT AREA: TA5

ENVIRONMENTAL: There are several sections West and East of the range which forms habitat for threatened (California Gnatcatcher), endangered or sensitive species; The creek bed West of the Range access road is included and the area should not be disturbed. Approval is required with EMD prior to any grading, cut or fill operations. Brush cutting or mowing is limited to the immediate range complex.

RANGE FACILITIES: The range complex includes the range building (no.1304), Brown range (no. 1302) with firing lines at 7, 15 and 25 yards. Charlie Range for recreational archery.

ASSIGNED TO: CG, MCAS Miramar

TELEPHONE: (858)577-1788 OR DSN 267-1788

** RANGE REGS POSTED AT THE RANGE SUPERCEDE THIS ANNEX

SPECIAL INSTRUCTIONS: This range is located within APZ-II at or below 1000 ft. AGL and aircraft have priority over firing.

TRAINING AREA REGULATIONS

APPENDIX D

FORMS

TRAINING AREA REQUEST

Please type or print legibly; If extra space is needed, note beside appropriate item(s) and attach extra page.

Unit: _____

Address: _____

Point of Contact: _____ Phone: _____

1. Description of proposed action: _____

2. Objective of proposed training: _____

3. Duration of Training; From: _____ To: _____
(Date - Time) (Date - Time)

4. Location (Training Area Number): _____ Grid Coordinates _____
Bivouac Site _____ Swim Tank _____ ISMT _____ PFT Course _____

5. Number of personnel participating: _____

6. Supporting Unit(s): _____

7. Type(s) of equipment: _____

8. Check the following as applicable. Yes responses must include complete description of the planned action:

a. Petroleum, Oil or Lubricants to be taken to the field: No ___ Yes ___

b. Plan to use water purification unit: No ___ Yes ___ ; Type _____

c. Bivouac: No ___ Yes ___ d. Field Mess: No ___ Yes ___

e. Shower: No ___ Yes ___ f. Laundry: No ___ Yes ___

g. Construction: No ___ Yes ___ h. Digging: No ___ Yes ___

i. Cross country: No ___ Yes ___

9. Summary of action planned to prevent or mitigate environmental damage: _____

Written by: _____

Telephone: _____

Signature/Date: _____

TAMO Action: Received _____ Approved _____ Disapproved _____

Reason for disapproval _____

Staff Coordination

_____ Concur/Non concur

_____ Concur/Non concur

TRAINING AREA REGULATIONS

ISMT/IST TRAINING REQUEST

Please type or print legibly; If extra space is needed, note beside appropriate item(s) and attach extra page.

Unit: _____

Address: _____

Point of Contact: _____ Phone: _____

10. Description of proposed action: _____

11. Duration of Training; From: _____ To: _____
(Date - Time) (Date - Time)

12. Number of personnel participating: _____

13. Qualified Operators (Names): _____

5. Type of training requested: Check all that apply.

Sustainment _____ Offensive _____ Defensive _____ Shoot/No Shoot _____ Swat _____

Day _____ Night _____ Adv. Marksmanship _____ Remedial _____

6. Weapons requested: Check all that apply.

M16A2 _____ 9mm _____ M203 _____ M240G _____ M249 SAW _____ AT4 _____

M153 SMAW _____ MK-19 _____ M-2 .50 _____ Shotgun _____ MP-5 _____

7. Operators requested: Yes _____ No _____

Written by: _____

Telephone: _____

Signature/Date: _____

TAMO Use Only

Assigned ranges: _____

Assigned Operators: _____

TAMO Action: Received _____ Approved _____ Disapproved _____

Reason for disapproval _____

Confirmation made: Yes _____ No _____ Date: _____

TRAINING AREA REGULATIONS

WAIVER FORMAT

From: Activity head
To: Assistant Chief of Staff, G-3, MCAS Miramar
Subj: REQUEST FOR WAIVER

1. Name of Activity, address
2. Purpose of request; specific statement of intent
3. Specific time and or time frame of action.
4. Specific location, grid coordinate or zone of action
5. Plan of Execution:
 - a. Detail action development
 - b. Resources involved, special equipment capabilities
 - c. Precautions to insure safety and comply with legal restrictions
 - d. Precautions to minimize impact to environment
 - e. Include references of precedence with similar previous actions (as available/appropriate)
 - f. Alternative courses of action considered
6. Significance of the action and anticipated result if action is not approved as requested. Suspense date for coordination.
7. POC, name, telephone, fax, e-mail, etc.

TRAINING AREA REGULATIONS

APPENDIX E

MCAS MIRAMAR TRAINING AREAS

