

Department of the Army  
United States Military Academy  
West Point, New York 10996-5000  
1 June 1998

USMA Reg 385-11

1 June 1998

**Safety**

**RANGE AND TRAINING COMPLEX REGULATION**

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MABS

FOR THE SUPERINTENDENT:

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*/ original signed /*  
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**SUMMARY:** This regulation defines and describes the ranges and training areas at the United States Military Academy (USMA). It describes who may use the West Point training complex, when it may be used and how to request its use. It defines the safety standards which must be met before training can begin, and the requirements which must be maintained during training.

**APPLICABILITY:** This regulation applies to:

- a. The United States Corps of Cadets, Active Army, Army National Guard, US Army Reserve and Reserve Officers Training Corps involved in any use of the USMA.
- b. All other Department of Defense activities such as, but not limited to: The US Navy and Navy Reserve, US Marine Corps and Marine Corps Reserve, US Air Force, Air National Guard and Air Force Reserve.
- c. All other US Government agencies such as, but not limited to: Federal Bureau of Investigation, Drug Enforcement Administration, US Naturalization and Immigration Service and the US Coast Guard.
- d. All state and local government organization such as, but not limited to: law enforcement agencies, public safety agencies, i.e., fire departments and ambulance corps and civil defense agencies.
- e. All Department of the Army recognized civilian marksmanship clubs.
- f. Any civilian agency or individual wishing to use the range and training complex. See USMA Reg 210-6, Temporary Use of USMA Facilities.

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\* This regulation supersedes USMA 385-11 dated 1 March 1996

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## CHAPTER I

### Section I

#### General

**1-1. PURPOSE.** This regulation prescribes policies and procedures for the safe operation and maintenance of the firing ranges and training areas; outlines the responsibility of all personnel who use, maintain or support ranges; and prescribes the general safety provisions and requirements. These procedures, when used in conjunction with the applicable technical and training publications for particular weapons and munitions, will minimize the possibility of an accident occurring during live fire exercises and training.

**1-2. SCOPE.** This regulation applies to all units of the Armed Forces, civilian organizations, and individuals who use the ranges or training areas of the United States Military Academy (USMA).

### Section II

#### Responsibilities

**1-3. Director of Operations, Plans, and Security (DOPS) will:**

- a. Establish priority of use of the facilities.
- b. Serve as chairman of the Range Project Review Board (RPRB).

**1-4. Range Project Review Board (RPRB) will:**

- a. Establish and review priority listing of range construction projects for pre- and post-mobilization requirements.
- b. Oversee the development of a eight-year Range Construction/Development Plan (RDP), prioritize the range projects, ensure range projects are included in the annual submission of the Program Analysis Resource Review (PARR), establish guidelines for future development of training areas and develop general use plan.

**1-5. Air Force Liaison Officer will:**

- a. Serve as the USMA Air Traffic and Airspace Control Officer.
- b. Ensure units who request using USMA airspace are deconflicted and follow this regulation's procedures.

**1-6. Commandant of Cadets will:**

- a. Be responsible for the scheduling of all West Point ranges and training areas from 15 May to 15 August annually with the S3, 1-1 IN/DPTM, DMI, Range Control and DOPS.
- b. Be responsible for providing current written training calendars to the S3, 1-1 IN/DPTM, Range Control, and the AG Post Bulletin. Ensure that all training activities, weapons firing, danger areas and road closings are listed and accurate.
- c. Ensure all United States Corps of Cadets (USCC) activities (Orienteering Club, Sandhurst, Infantry Tactics Club, etc.) forward requests through S3, USCC to Range Control, 1-1 IN/DPTM for ranges/training areas.
- d. Coordinate maintenance, repair, new work requirements and modernization within the Training Complex with the S3, 1-1 IN/DPTM. The RPRB will be used as a forum to ensure priorities are clear.
- e. Be responsible for terminal guidance (DMI, CST HQ's) for aircraft after aircraft have reported to Range Control for Air Traffic Control for cadet summer training activities, in coordination with S3, 1-1 IN/DPTM, and the AFLO.
- f. Provide range and training complex vision and present through Director, Military Instruction to the RPRB.
- g. Ensure the cadet clubs and facilities/ranges used by cadets operates IAW this regulation.
- h. Schedules a meeting each semester between S3, 1-1 IN/DPTM and Training Officers to discuss procedures for range scheduling.

i. Notifies appropriate agencies of range firing, aircraft training, and danger areas during cadet summer training and within the period 15 May through 15 August. Notifies Range Control of training likely to create excessive noise, fire hazards or of any training between the hours of 2000 and 0800 as appropriate.

**1-7. Garrison Commander will:**

- a. Be responsible to the Superintendent, USMA, for the operation of the training complex.
- b. Oversee range operations and is the approval authority for range safety issues resulting from the range risk assessment process. The Superintendent delegated range oversight and safety issue approval authority to the Garrison Commander on 8 Sep 95. The Superintendent, USMA, is the approving authority for waivers resulting from range safety issues which reduce a Surface Danger Zone (SDZ) IAW 385-63 (Draft).
- c. Ensure that subordinate activities accomplish assigned tasks.

**1-8. Commander, 1/1<sup>st</sup> IN/Deputy Garrison Commander-West Point and S3, 1-1 IN/Director of Plans, Training and Mobilization (DPTM) will:**

- a. Receive, formulate and effect the necessary changes to this regulation and the Range and Training Area Map.
- b. Advise the DOPS and the RPRB on matters related to the Training Complex.
- c. Be responsible for the day-to-day operation of the Training Complex.
- d. Supervise S3, 1-1 IN/DPTM and Range Control in the execution and enforcement of this regulation.
- e. Validate and schedule requests for the use of the range and training complex.
- f. Program the annual Range Control budget.
- g. Notify appropriate agencies of range firing and danger areas. Notifies Range Control of training likely to create excessive noise.
- h. Develop programs and policies to ensure safe range operations.
- i. Requisition supplies and coordinate all work orders necessary for the maintenance and improvement of the Training Complex.
- j. Coordinate the Range Maintenance Program, Range Modernization Program, and support of the training complex with appropriate USMA agencies. Ensure priorities are established and work coordinated with the GC, other MADs, and DHPW.
- k. Coordinate with Explosive Ordnance Disposal (EOD) for annual clearance of all impact areas IAW Army Regulation (AR) 385-63, Technical Manual (TM) 9-1300-206, and AR 75-15 and clearance after summer training.
- l. Coordinate with DOPS on range and training matters as required.
- m. Be responsible for the maintenance, operation, and scheduling of Camp Natural Bridge, Camp Buckner, and Lake Frederick training areas.
- n. Coordinate with the Director of Logistics (DOL) and Directorate of Housing and Public Works (DHPW) on messing and billeting requirements requested by units training at West Point.
- o. Serve as a member of the RPRB.
- p. Make decision to halt or approve pyrotechnics based on the fire hazard indicators as stated in Chapter 5 of this regulation.
- q. Make decision to cease training if ranges or activities are unsafe. Consult with unit Commander/OIC before training may resume.
- r. Survey and inspect all telephone installations to determine operability not later than 1 May each year. Submits telephone requirements to Directorate of Information Management (DOIM), in support of summer training, 10 days prior to need.
- s. Identify and report telephone outages in the Range and Training Area to the DOIM trouble desk, x3911, for repair.
- t. Submit a local service request to the DOIM for new requirements, changes and/or moves.
- u. Operate the Big Game Hunt Control Center ICW DHPW, DCFA (CRD) and PMO, IAW this regulation and USMA Regulation 215-5, Morale, Welfare, Recreation, Hunting, Fishing and Trapping.



v. Be responsible for the administration and operation of all sign outs for small game hunting, archery, trapping and fishing seasons ICW DHPW, DCFA (CRD) and PMO and IAW USMA Regulation 215-5.

**1-9. Range Control Specialist will:**

- a. Directly supervise Range Control personnel.
- b. Conduct incoming unit safety briefings and provide range certification to the OIC, RSO and ARSOs.
- c. Provide units and activities using the Range and Training Complex with a maneuver damage and environmental briefing ICW Integrated Training Area Management (ITAM) Program Manager.
- d. Advise the S3, 1-1 IN/DPTM of Training Complex requirements or problems.
- e. Operate Range Control during all firing and hazardous training.
- f. Inspect all ranges during operations for safe operating procedures, proper medical coverage and maintenance IAW the checklist at Appendix G, Figure G-7.
- g. Conduct periodic checks of the Range and Training Complex IAW the checklist at Appendix G.
- h. Immediately order "CEASE FIRE" when a safety violation is detected. Advise the S3, 1-1 IN/DPTM of safety violations.
- i. Authorize the resumption of firing after safety deficiencies are corrected or delegate such authority to Range Control personnel (following a "CEASE FIRE").
- j. Order the departure of any user who demonstrates a lack of technical competence with regard to the weapons or munitions being fired, a lack of understanding of this regulation or other references, or commissions of multiple minor violations of this regulation.
- k. Submit supply requests through CDR, HHC, 1-1 IN, and work orders/requests through S3, 1-1 IN/DPTM.
- l. Immediately inform the S3, 1-1 IN/DPTM and the USMA Safety Office (938-2860) of accidents and other serious incidents occurring within the Training Complex.
- m. Maintain and issue the keys to all barriers, gates and facilities within the Training Complex.
- n. Perform maintenance on the Training Complex in conjunction DHPW.
- o. Maintain dud reports by using the dud ammunition location reporting board at Range Control, and forward an annual report to S3, 1-1 IN/DPTM by 31 December.
- p. Maintain a record of materials and labor used on each project.
- q. Issue range flags, field telephones, portable public address systems and other equipment necessary to operate ranges.
- r. Inform USMA Public Affairs Office (PAO) when excessive noise may arise from training activities to include EOD clearing, helicopter operations, indirect weapons firing, grenade and demolition training.
- s. Be responsible for airspace management control throughout the year (to include cadet summer training) on concert with the USMA 2d AV Detachment, USMA AFLO, and DMI Aviation Branch representative.
- t. Record use of Restricted Airspace R-5206 on the form at Figure 10-2 (see not in Table of Contents) whenever it is activated.
- u. Notify the Provost Marshal Office (PMO) Physical Security Section, 72 hours in advance, to coordinate for inspection of temporary field ammunition storage sites.
- v. Make decisions and advise the S3, 1-1 IN/DPTM when pyrotechnics and other fire producing training devices should be suspended based upon the fire hazard indicators listed in Chapter 5 of this regulation.
- w. Serve as the USMA Game Warden and comply with all federal, state, and West Point game and fish laws IAW USMA Regulation 215-5, Morale, Welfare, & Recreation, Hunting, Fishing and Trapping. Be responsible for enforcing the above laws once Game Wardens have been hired and trained.

**1-10. Provost Marshal will:**

- a. Conduct routine security checks of the Training Complex and report any incidents to Range Control.
- b. Conduct physical security inspections of all temporary field ammunition storage sites ICW Range Control. Immediately notify Range Control if major discrepancies exist.

- c. Remove injured or deceased animals found on a roadway when they present a hazard to traffic and/or pedestrians. Disposition of sick or injured animals will be coordinated with the USMA veterinary activity.
- d. Augment Range Control during Big Game Hunt Season in conducting security patrols and enforcing all federal, state, and post game and fish laws IAW USMA Regulation 215-5, Morale, Welfare, & Recreation, Hunting, Fishing, and Trapping.
- e. Ensure that all unauthorized persons found inside the posted areas are detained and turned over to state or local law enforcement agencies.

**1-11. Directorate of Community and Family Activities (DCFA) will:**

- a. Supervise designated installation recreational areas (Community Recreation Division (CRD)). CDR, 1-1 IN/DGC-WP retains the authority to supersede/suspend CRD activities when necessary for the conduct of training or safety. This authority extends to DMI during cadet summer training.
- b. Issue permits to use both designated recreational areas and training areas when approved by Range Control Scheduling. The Impact Area and Crow's Nest Dud Area (Boundaries: WL84228472 to WL85848496 to WL85948450 to WL 85168372 to WL84468410) are permanently off limits. The Crow's Nest Dud Area will remain off limits until the USMA Safety Office approves its return to a hunting/training area.
- c. Supervise the operation of all swimming areas except Popolopen Lake.
- d. Be responsible for the operation, maintenance, and police of Lake Frederick all club boat landings and docks.
- e. Coordinate and schedule all hunting and recreation activities in the training complex with the CDR, 1-1 IN/DGC-WP.
- f. Ensure safety restrictions are publicized using the Post newspaper and command information systems.
- g. Ensure horseback riders are aware of active training areas and danger areas prior to departing Morgan Farms.
- h. Establish a sign in/out process to track trails used by Morgan Farm riders. Provide monthly training area utilization reports to S3, 1-1 IN/DPTM.
- i. Provide personnel to augment Range Control during the Big Game Hunt Control Season IAW USMA Regulation 215-5.

**1-12. Safety Officer will:**

- a. Provide timely advice to the 1-1 IN regarding training safety (Safety Office (SO)).
- b. Recommend measures to correct unsafe conditions.
- c. Review this regulation, construction, and modification plans to ensure the provision of the necessary safety measures.
- d. Periodically publish flyers describing the dangers of duds located throughout the range area and the signs and other restrictive measures used on the ranges at West Point.
- e. As part of the Safety Officer's annual inspection of Range Control, review the maintenance review log for inspecting dud warning signs posted around each impact area and review any work orders to ensure timely repairs are being made to any fences constructed on the perimeter of the ranges. Provide appropriate remarks to all work orders for repair of range fences forwarded by Range Control.
- F. Perform an annual safety inspection of all ranges and training areas to include but not limited to: confidence course, obstacle course, leadership reaction course, rappelling site, water confidence training site, engineer training site and bayonet assault course.
- g. Certify Training Complex ranges/facilities prior to cadet summer training NLT 15 May. Coordinate work orders for repair with the S3, 1-1 IN/DPTM and DHPW.
- h. Perform a safety inspection of Camp Buckner and Camp Natural Bridge in April and September.

**1-13. Director of Logistics (DOL) will operate the USMA Ammunition Supply Point (ASP) and provide weapons and other equipment support to the USMA training complex.**

**1-14. Director of Information Management (DOIM) will:**

- a. Install and maintain the fixed public address systems within the Training Complex.
- b. Provide Direct Support/General Support (DS/GS) electronic maintenance support for mechanical equipment and communications equipment on the ranges.
- c. Install and maintain the telephone system in the Training Complex and to each range/training area.
- d. Assign radio frequencies to using units. Users request frequencies/SOIs through CDR, 1-1 IN/DGC-WP.

**1-15. Director of Housing and Public Works (DHPW) will:**

- a. Support the Range and Training Complex Priority of Work ICW CDR, 1-1 IN/DGC-WP and S3, 1-1 IN/DPTM IAW the Range Development Plan (RDP).
- b. Provide supplies and services to the Training Complex as requested by S3, 1-1 IN/DPTM and Range Control.
- c. Provide assistance with the repairing of Remote Engagement Target System (RETS) mechanisms. This assistance will be initiated by MSO or Work Order.
- d. Perform maintenance and repair of permanent facilities within the Training Complex IAW AR 420-70.
- e. Control USMA Fire Department. Coordinate fire fighting measures and assets within the training complex. Fight fires in the Training Complex. Will NOT fight fires in the permanent dud area under any circumstances (AR 210-21). Coordinate all actions through CDR, 1-1 IN/DGC-WP.
- f. Advise Range Control upon implementation, change, or termination of the fire hazard status (USMA Fire Department).
- g. Issue all recreational fire permits (USMA Fire Department).
- h. Assist in firebreak maintenance as required.
- i. Maintain and manage all forest land, to include harvesting and reforestation. Coordinate these activities with the S3, 1-1 IN/DPTM and Range Control.
- j. Serve as the Installation Wildlife Officer.
- k. Be responsible for maintenance of the range fences when work orders are received from Range Control through S3, 1-1 IN/DPTM.
- l. Monitor activities in the training complex to ensure all applicable environmental regulations are being complied with. Periodically assess the Training Complex to ensure usage is not degrading the environment.
- m. Develop environmental education programs, In conjunction with the CDR, 1-1 IN/DGC-WP, to keep training complex users informed of environmental issues affecting the Training Complex.
- n. DHPW, EMB, FP&PD Branch certifies refuel operations sites prior to the dispensing or transferring of any fuels on the USMA training complex.
- o. Participate in Range Project Review Board (RPRB).

**1-16. Commander, Medical Department Activity (MEDDAC) will:**

- a. Provide prearranged and emergency medical assistance and treatment to USMA units and activities as requested.
- b. Request Training Complex improvements as needed and is a member of the Range Project Review Board.

**1-17. Public Affairs Office (PAO) will:**

- a. Periodically publish articles in The Pointer View provided by the Safety Office dealing with range safety to include the necessity to restrict access to certain areas of the range and the different restrictive measures used.
- b. Notify West Point Community, local media and/or community officials regarding training likely to generate excessive noise, high fire hazard training, and of official training occurring between 2200 and 0800 as appropriate.

**1-18. Commanders and Officers-in-Charge (OIC), Using Units/Activities will:**

- a. Be responsible to the Superintendent, USMA, for the safe operation and return of ranges, training areas and other facilities in good condition.
- b. Be responsible for appointing OICs and Range Safety Officers (RSO) who are thoroughly trained in, and knowledgeable of the training to be conducted, and the weapons systems and/or devices and equipment to be used. Ensure OICs and RSOs receive a safety briefing at Range Control within ten days of intended use of the facilities.
- c. Commanders of units using the Training Complex, at anytime, will report to Range Control for a briefing prior to any portion of his/her unit occupying any portion of the training complex. At the time of this briefing the commander will designate a Command Post (CP) location to Range Control. If the CP is relocated during training, the new location will be reported to Range Control as soon as occupied.
- d. Commanders conducting training that involves the firing of small caliber ammunitions, explosives or pyrotechnics will ensure that a shakedown is conducted prior to departing the range. Inspections will include inspecting personnel, equipment and trash for any Class V item.
- e. Coordinate with Range Control for an inspection of the training areas prior to departure from the Training Complex.
- f. Conduct Training Complex maintenance and cleaning as directed by Range Control to include:
  - (1) Police and removal of wire, trash, brass, and unit equipment.
  - (2) Repair of facilities damaged during use.
  - (3) Notifies Range Control of any facility in need of repair or upgrade.
  - (4) Restores the land to a condition equal to or better than when received (i.e. fill foxholes).
- g. Ensure only authorized personnel are present during scheduled training. All military personnel must be in proper uniform and have a proper ID card and ID tags in their possession.
- h. Institute measures to prevent damage to any building or facility by their personnel.
- i. Orient all personnel on their location with respect to impact and danger areas to prevent inadvertent entry.
- j. If transporting weapons, ammunition, or pyrotechnics and/or storing them while at the USMA, will notify the USMA Provost Marshal's Physical Security Office (938-4585) prior to arrival.
- k. Be responsible for the security and accountability of weapons, ammunition, pyrotechnics and explosives used or temporarily stored at a training site under their control. Accountability includes: determining the type and quantity of all munitions used on a range under their control; establishing controls to ensure that munitions are not pilfered; certifying in writing that all munitions drawn from the USMA Ammunition Supply Point (ASP) which were not turned in were expended during training.
  - l. Ensure proper care and return of all USMA Training Complex Map Sheets issued by Range Control.
  - m. Coordinate special support requirements with appropriate agencies as outlined in Chapter 2.
  - n. Brief all personnel on prevention of maneuver damage, and on preservation of the environment.
  - o. Ensure OIC, RSO and ARSO attend Range Control briefing and are certified IAW this Regulation.

**1-19. Civilian Marksmanship Groups: Officers-in-Charge (OIC) will.**

- a. Be administratively and logistically self-supporting.
- b. Organizations not enrolled with the Director of Civilian Marksmanship (DCM) must submit a request for enrollment prior to being permitted use of ranges. Contact the DCM at Headquarters, Department of the Army, Washington, D.C. 20314. Submit a copy of approved DCM enrollment with the initial request for use of USMA Training Complex.
- c. Per para 5-9 AR 210-21, the OIC and RSO for civilian gun clubs must have completed an approved NRA certification course or equivalent.
- d. Submit releases for all participating personnel as prescribed in Appendix G.

**CHAPTER 2****ADMINISTRATIVE AND SUPPORT REQUIREMENTS**

**2-1. Priorities of Use**

- a. The following priorities of use are established:
  - (1) USCC/cadet-related activities.
  - (2) Units assigned or attached to the USMA.
  - (3) Other Active Component units.
  - (4) Reserve Component (RC) units (both US Army Reserve and National Guard) which provide significant support to USMA. Examples are Engineer units which perform construction on the ranges, Military Police (MP) units which augment USMA's MPs, and Medical units which augment Keller Army Community Hospital (KACH). Contact DOPS (938-3424) for further information on this program.
  - (5) Other RC and Reserve Officer Training Corps (ROTC)
  - (6) Other Federal and State agencies.
  - (7) Civilian gun clubs sanctioned under the Civilian Marksmanship Program.
  - (8) Approved recreational activities other than above.
- b. Units with approved Training Complex reservations may be preempted or "bumped" by units with a higher priority. This can occur anytime up until the first of the month prior to the month the training is scheduled for. After that day, units will not be bumped. The range schedule for a given month will be "locked-in" on the first working day of the preceding month.
- c. All appeals will be directed through Range Control to the CDR, 1-1 IN/DGC-WP.
- d. LOCK-IN DATE is defined as the first working day of the month preceding the month training is requested for. For example, 1 February is the LOCK-IN DATE for all March training.

**2-2. Special Allocations**

- a. The Commandant of Cadets will be automatically scheduled as the sole user of the Training Complex from 15 May through 15 August annually. The intense cadet training program precludes other units from using any ranges, training areas or facilities during this period unless coordinated with and approved by the Director of Military Instruction and S3, 1-1 IN/DPTM. Use of the Training Complex during this time period must be scheduled no later than 1 week prior to the training commencing. This will allow for the posting of scheduled training in the Post Bulletin .
- b. During the period of the New York State Deer Hunting Season (Gun), use of the Training Complex will be curtailed to permit this game management/recreational activity. These dates are typically the second Monday in November until the second Monday in December inclusive. Exact dates for hunting season can be confirmed by contacting the USMA Wildlife Biologist at 938-2314.
- c. The boats and boat docks vicinity Stilwell Lake, Weyant's Pond, Wilken's Pond, and Popolopen Lake are available for use with some restrictions through the West Point Community Recreation Division (CRD). Personnel desiring to use these facilities must contact Round Pond at 938-2503.
- d. Emergency detonation of hazardous munitions by EOD may occur at anytime after coordination with S3, 1-1 IN/DPTM and Range Control. When this occurs, Range Control may put other ranges in a dry (non-firing) status.

**2-3. Scheduling**

- a. Requests to reserve USMA Range and Training Complex by all organizations other than USMA must be submitted by all organizations on USMA Form 1-249-R (Appendix G, Figure G-1) to reach the CDR, 1-1 IN/DGC-WP , prior to the lock-in dates specified in para 2-1d above. Organizations internal to USMA may send requests via E-mail providing all the information applicable to USMA Form 1-249-R is provided. E-Mail requests may be sent to Range Control Scheduling.
- b. Telephonic coordination prior to submission of the written request is strongly recommended to determine facility availability. Telephonic reservations will not be accepted. Use of a direct (advance) copy is encouraged when requests must be routed through lengthy command channels.
- c. Contact may be made by:
  - (1) Telephone: DSN 688-3930/4317      Commercial (914) 938-3930/4317
  - (2) Writing: Superintendent  
 United States Military Academy  
 ATTN: MABS-3  
 West Point, NY 10996-5000

d. All written requests must be in the proper format (USMA Form 1-249-R, see Appendix G, Figure G-1) with each item of appropriate information completed. A Training Complex Request form (USMA Form 1-249) is included in this regulation at figure G-1. This form may be reproduced locally.

e. All United States Corps of Cadets (USCC) activities (Orienteering Club, Skeet and Trap Team, Sandhurst, Range Orientation Course, Tactics Club, etc.) will forward requests through S3, USCC to Range Control for Ranges/Training areas. All Cadet activities must schedule this use, as the Range and Training Land Regulation requires all land usage to be documented.

f. Normal hours for range firing are from dawn to dusk daily. A request to waive these times must be submitted for night fire on any range other than Range 11 for M-16 night firing. The waiver must address firing times, safety procedures and other control measures.

**RANGE FIRING IS PERMITTED ONLY DURING THE TIMES PUBLISHED IN THE USMA POST BULLETIN. EXTENSIONS OR EXCEPTIONS TO THIS POLICY WILL BE CONSIDERED BY CDR, 1-1 IN/DGC-WP ONLY IN THE EVENT OF POST BULLETIN PUBLICATION PROBLEMS: PROVIDING OTHER MEANS OF MASS COMMUNICATION ARE OPERABLE, i.e. CHANNEL 8, E-MAIL, MP PATROLS.**

g. Under NO circumstances will the Training Complex facilities be utilized without the written permission of the CDR, 1-1 IN/DGC-WP.

h. If a unit has not trained at USMA or is unfamiliar with the terrain and facilities, the commander or his representative should call Range Control, 938-3930/4317, and coordinate a reconnaissance visit.

## **2-4. Waivers**

a. All requests for waivers of a portion of this regulation must be submitted through command channels in writing to the CDR, 1-1 IN/DGC-WP, at the same time the Training Complex usage request is submitted. Requests to modify range surface danger zones or to modify prescribed firing procedures must be coordinated with S3, 1-1 IN/DPTM and Range Control IAW AR 385-63. The USMA Safety Office will be notified when these modifications to Ranges or Training Areas are approved.

b. A request for waiver will be approved in writing only. This document must be present during training.

c. Requests for waivers concerning the security of arms, ammunition, pyrotechnics and/or explosives will be routed through the USMA Provost Marshal to the S3, 1-1 IN/DPTM.

d. Request for waivers must be submitted a minimum of 60 days prior to the desired date of training.

## **2-5. Cancellations**

a. A user holding a confirmed reservation is responsible for notifying Range Control, in case a cancellation is warranted. Due to the high demand to train at the USMA and the limited number of range and training areas, it is imperative that cancellations be made as soon as possible to permit rescheduling.

b. A unit that exercises poor judgment in the safe operation of a range, training area, rappel site, or other training of this regulation, or fails to utilize or cancel a scheduled facility will be required to explain the violation/absence in writing directly to the CDR, 1-1 IN/DGC-WP. Subsequent violations will result in a letter being routed through command channels notifying the user that training privileges have been rescinded for a period of one year.

**2-6. Rain Dates.** Rain dates will not be scheduled. Ranges may be required to go dry during periods of dense fog, range fires, or other weather conditions which preclude good visibility.

## **2-7. Other Uses**

a. AR 385-63, para 4-8, authorizes the use of the Range and Training Complex by law enforcement organizations, civic organizations and active Army Rod and Gun Clubs. It states a bilateral agreement will be in effect between such organizations and USMA before use can be authorized. These agreements may be arranged between USMA and using organizations by contacting the S3, 1-1 IN/DPTM.

b. Requests for the use of the Training Complex for purposes other than firing and/or military training are subject to the approval of the Garrison Commander, USMA. Requests of this nature must be submitted at least 60 days in advance to allow for proper staffing and coordination.

c. Hunting, fishing, and trapping on the Training Complex are regulated by USMA Regulation 215-5. The Community Recreation Division (CRD) of the Directorate of Community and Family Affairs (DCFA) is responsible for the issuance of permits/passes, and assignment of hunting areas.

d. The use of the Training Complex for recreational activities other than those above is governed by USMA Regulation 28-10. These activities include, but are not limited to, camping, hiking, boating, water skiing and the use of trail bikes. Range Control and the CDR, 1-1 IN/DGC-WP in conjunction with DCFA may prohibit these activities within the training complex based on training requirements and safety. Swimming and boating may be prohibited from 15 May through 15 August based on training requirements and safety by the CDR, 1-1 IN/DGC-WP and Range Control in conjunction with DCFA.

e. Swimming on the Training Complex is prohibited except in those circumstances where adequate safety precautions are observed, which includes the use of trained lifeguards and specific permission of the CDR, 1-1 IN/DGC-WP has been granted. Only the areas specified by USMA Regulation 28-7 will be utilized for swimming.

f. All users must have a permit or pass available for presentation upon request. The only exception to this policy is joggers. Personnel using the Reservation for this purpose are required to review USMA Regulation 190-5 and the USMA Daily Bulletin for active training and danger areas before beginning their exercise.

g. Personnel using recreational areas within the Training Complex will be governed by the safety procedures contained herein, particularly as they apply to restricted areas, danger areas, ranges, and barriers.

h. Under NO circumstances will personnel other than Range Control and authorized Explosive Ordnance Disposal members enter the Impact Areas without the written permission of the CDR, 1-1 IN/DGC-WP. The USMA PAO will be notified by Range Control of all EOD operations.

i. The CDR, 1-1 IN/DGC-WP may withdraw privileges of using the range and training complex from any person or organization that willfully disobeys rules and regulations prescribed for the range and training area, or from any person whose conduct on the range or installation warrants such action.

## **2-8. Medical Requirements**

a. Medical Support Requirements: Medical support for ranges may be provided by the following:

(1) Qualified medics with the PMOS of 91B and/or 91C with aid bag, litter, radio communication, and evacuation vehicles. These personnel and resources will be provided by the unit, if available, or Keller Army Community Hospital (KACH).

(2) Qualified Combat Lifesaver personnel (MOS immaterial) with Combat Lifesaver aid-bag, radio and or phone communication, litter, and evacuation vehicle. These personnel and resources will be provided by the unit if available. Litters may be requested from KACH. (Note: The evacuation vehicle is not required to be an ambulance. A vehicle used for evacuation must have the capability of transporting litter and ambulatory patients and must be dedicated for evacuation use only).

b. Medical Qualifications: KACH will determine the qualifications for both 91B/C and Combat Lifesaver personnel.

c. Ranges Requiring Medical Support: The following ranges and training activities require medical support to be on-site.

(1) All ranges and training areas where live fire is to be conducted: Qualified 91B/C medical personnel and equipment will support all ranges involving crew served weapons (M60, MK19). Combat Lifesavers may support small-arms ranges (M16, M9, skeet & trap, pistol ranges).

(2) All demolition training (including grenade, mortars, artillery, MK19): Qualified 91B/C medical personnel and equipment only.

(3) Rappelling: Qualified 91B/C medical personnel and equipment only.

(4) Water confidence training: Qualified diver with lifeguard/water safety certification.

(5) Marine Confidence course: Qualified 91B/C medical personnel and equipment only.

- (6) Anzio Obstacle Course: Qualified Combat Lifesaver with equipment.
- (7) Lundy's Lane Leaders Reaction Course: Qualified Combat Lifesaver with equipment.
- (8) Maddock DZ (during air operations): Qualified 91B/C medical personnel and equipment only.
- (9) Civilian gun clubs and Rod and Gun Club ranges: Medical support for these ranges is not required but is highly encouraged to be present. Clubs should notify the KACH Mobilization, Education, Training, and Security Office (METS) of the date-time-group and location of training (see paragraph e.(1) below). At minimum, clubs should have an emergency first aid and evacuation plan and a method to notify KACH in the event of an emergency.

d. Organic (Unit) Medical Requirements: Units providing their own medical support must meet the requirements listed in paragraphs a through c above.

e. Planning and Coordination Requirements: If medical support is required, units will notify KACH at the Mobilization, Education, Training, and Security Office (METS) not later than six weeks prior to the training event (see FM 25-101, chapter 3, Near-Term Planning).

(1) METS will require the following information:

- (a) Range type.
- (b) Date time group (DTG) and duration.
- (c) Location
- (d) Number of personnel to be trained.
- (e) Range Point of Contact (POC) and/or Officer in Charge (OIC).
- (f) Reporting and release time and location for the medic to report.
- (g) Person to whom the medic should report.

(2) Class I support: Supported units are responsible for ration and billeting (if necessary) support of medical support personnel.

(3) Medical personnel from units outside of West Point will make coordination with the KACH Emergency Room (ER) (938-4004/4005) prior to the start of training. They will familiarize themselves with the route(s) to KACH and to KACH ER Standard Operating Procedures (SOPs).

f. Execution: Medical support personnel at the range site will provide treatment for minor injuries and basic first-aid for life-threatening injury or illness.

(1) Medical coverage will be provided on an area basis when possible. One medic may support two or more ranges simultaneously if those ranges are within reasonable proximity, e.g. Ranges 4 and 5.

(2) Injuries and/or illness requiring immediate emergency support will be reported to the KACH ER. An Emergency Medical Service (EMS) ambulance and team will be dispatched from the KACH ER to the range site for patient evacuation.

(3) When medical personnel assigned to a range or training site must depart for any reason, the range will "CEASE FIRE" or cease training until the medical personnel return to the site.

(4) Communications: All medical personnel will have radio communication, class C telephone lines (if available) and FM communication capability. All frequencies and numbers will be displayed at the site:

- (a) Range Control frequency is 50.00.
- (b) KACH ER frequency is 150.700.
- (c) KACH ER telephone number is (914) 938-4004/4005/4006.

## **2-9. Vehicle Traffic**

a. The maximum speed for tactical vehicles (including M1008/1009, and GSA/Commercial 2.5 ton trucks) is 40 mph on paved roads; 25 mph on all other surfaces. The speed on all range and training areas is 10 mph.

b. Tactical vehicles traveling on New York Highway 293 are authorized to drive on the main portion of the road. Sufficient convoy interval will be maintained to permit civilian vehicles to safely pass. Driving on the shoulder of the road is at the discretion of the Task Force Commander in



coordination with Cadet Field Training (CFT) and Cadet Basic Training (CBT) commanders. Reserve component commanders will make the determination for their units.

c. The use of the Fort Montgomery Mine Torn Road entrance and Bull Pond Road by military vehicles larger than M1008/1009 and GSA/Commercial 2.5 ton trucks is prohibited.

d. Vehicles transporting munitions while on post will have two class X, B-C fire extinguishers. Provisions of TM 9-1300-206 and USMA Regulation 75-1 apply to movement of munitions. USMA DOL must verify the type of vehicle inspections required to move munitions.

e. During the summer training the S3, CST will brief the Task Force S3, S4, Support Platoon Leader, and the Commander, Transportation organization, concerning the approved training and traffic routes for military vehicles.

f. Maximum speed when transporting munitions is 35 mph.

g. Vehicles transporting Class A and B munitions will display the appropriate US Department of Transportation Symbols IAW TM 9-1300-206. For on-post movement, fire symbols are to be used IAW USMA Ammunition Supply Point SOP. USMA DOL will update the ASP SOP to include the positioning of DOT symbols.

h. Vehicles will not be left unattended while loaded with munitions, nor will munitions be loaded or stacked immediately to the rear of the exhaust. Security requirements for in transit weapons and/or munitions, as specified in AR 190-11, will be met.

i. Armored vehicles are generally not permitted on the USMA Range and Training Complex. Units/organizations wishing to train with fully tracked (armored or engineer) vehicles must specifically request an exception to policy from the CDR, 1-1 IN/DGC-WP. This request should be submitted in conjunction with USMA Form 1-249 (Appendix G, Figure G-1) and must contain an overlay of the desired training routes.

j. Privately owned vehicles (POV) are prohibited from ranges and training areas during periods of training. The OIC/NCOIC may designate a POV parking area in the training areas.

**2-10. Latrines.** Only established latrines (Appendix C) will be used throughout the Training Complex. The use of flammable materials or devices within or near the latrines is prohibited. The use of field latrines, urinals, etc., is expressly prohibited. Portable toilets may be emplaced at the using unit's expense. The USMA POC for contracting portable toilets is the Director of Contracting, (DOC), at 938-3417.

## **2-11. Disposal of Waste**

a. Liquids. Soakage pits, constructed IAW Section IV, FM 21-10, will be used for the disposal of liquid waste generated by a field kitchen. In the event these pits are not available, liquid waste will be transported to the sanitary land fill for disposal. Petroleum, oil, and lubricants (POL) may be disposed of by coordinating with USMA TMP. USMA DOL will verify and publish liquid disposal procedures.

b. Kitchen Waste (Food). All kitchen waste will be removed from the Training Complex. Under NO conditions will the trash barrels and dumpsters in the Training Complex be utilized for the disposal of food waste.

c. Trash. Littering is strictly prohibited at USMA. All units will ensure trash is deposited in the trash containers located throughout the Training Complex.

d. Building Materials and Cuttings. All building materials, tree cuttings, shrubbery, etc., will be deposited in the sanitary fill pit at the entrance to Range 4.

e. Ammunition/Residue. Unexpended munitions, brass, cans, boxes, etc., will be returned to the ASP from where the munitions were drawn from. Powder residue burning will be IAW Range Control instructions.

## **2-12 Camp Fires**

a. Open fires are prohibited on ranges and training areas except for controlled burning points, which require a fire permit from the USMA Fire Department.

b. Fires used for cooking and heating in standard military appliances designed for that purpose, require no permit. The use of established mess areas or appropriately cleared areas is required when

operating these appliances. Fire fighting equipment, as prescribed by the applicable TM, is required on site.

c. Approval for all other types of fires must be requested by submission of a USMA Form 12-124 to the West Point Fire Department. Requests for fires associated with recreational activities will be routed through CRD. All activities will notify Range Control of all approved fires.

## **2-13 Logistics**

a. All off-post units using West Point for training are expected to be fully self sufficient. USMA is a TDA organization with the mission to train and educate cadets. As a result USMA is only able to provide limited support to off-post units.

(1) CLASS II - A retail clothing sales store is located in the Post Exchange (PX), Bldg 683. No Central Issue Facility (CIF) is available.

(2) CLASS III - Bulk issue of fuel can be arranged with transfer of funds through DOL. No retail fuel point is available at West Point.

(3) CLASS IV - NONE.

(4) CLASS V - Munitions should be drawn from using unit's support installation. West Point ASP has limited storage capacity and can provide limited issue of small arms ammunition. Units requesting Class V issues will be accommodated on a case-by-case basis. Ammunition found on post will be turned-in to the ASP per Chapter 4 of this regulation under the Ammunition Amnesty Program. Contact West Point ASP Office at (914) 938-3216 or DSN: 688-3216 for further information.

(5) CLASS VI - Post Exchange is located in building 683.

(6) CLASS VII - All vehicles used from the West Point Transportation Motor Pool (TMP) are used on a fully reimbursable basis. The TMP has almost no tactical type vehicles. Weapons, radios, tents, etc. can be loaned from USMA. POC for these supplies is Vehicle, Operations and Maintenance branch.

(7) CLASS VIII - NONE.

(8) CLASS IX - NONE.

### **b. Billeting**

(1) Camp Buckner is not available for billeting at anytime.

(2) Camp Natural Bridge and other buildings on West Point may be available on a limited basis. The S-4, 1-1 IN controls these facilities and can be reached at 938-/2625.

c. **Mess Support:** All mess support is arranged through S-4, 1-1 IN.

d. **Water.** A water supply point is located in the vicinity of WL79387827. Prior to use, coordination will be conducted by the using unit with the Work Reception and Scheduling Branch, DHPW. Water can also be drawn from the West Point Fire Department. Prior coordination is required, phone 938-3001.

## **2-14. Training Aids**

a. Target frames, silhouettes, range paddles, range flags, amplifiers, etc., will be provided by Range Control. If large quantities of unusual aids are required, prior coordination is strongly advised. Radios are typically not available for loan.

b. All off-post units will provide their own targets and scorecards. Silhouettes will be provided on range 11 and the night-fire portion of range 4.

c. West Point has no Training Aid Support Center. The unit must supply all aids required for training.

## **2-15. Protecting the Environment**

### **a. Field Fortifications**

(1) Construction of temporary field fortifications is permissible with the prior approval of Range Control. Users are required to remove all materials and fill diggings prior to clearance. Living trees or plants will not be cut to aid in the construction of these fortifications.

(2) Construction of field fortifications, or any other training activity, should not involve the disturbance of cultural resources of potential historic value. Such resources include building foundations, cellar holes, stone fences, mine excavations, wells and cisterns.

### **b. Tree and Foliage Cutting**

(1) The cutting of trees and/or foliage is prohibited except when authorization has been obtained from the USMA Forester, Natural Resources Branch, DHPW. The cutting of all trees, to include small saplings, must be controlled to assure adequate numbers of appropriate species are reserved to form the future training area forest. The cutting of tree branches for camouflage or other purposes is prohibited to assure the good health of the trees.

(2) Acceptable camouflage, and its location, can be obtained by contacting the USMA Forester4.

**c. Protected Growth Areas**

(1) Protection and management of natural resources in the training areas involves the establishment of individual tree seedling shelters and deer browsing study plots which must not be disturbed. The tree shelters are 5 foot tall white or brown plastic cylinders, and the study plots are small (generally 12' x 12') fenced areas.

(2) Occasionally a "woods road" off the main training area access road system has to be temporarily closed for rehabilitation. Signs restricting access to these areas apply to all activities, including training. Often the "roads" have been seeded and mulched and should not be disturbed. If use of such an area is deemed critical to the mission, coordination should be made with the DHPW Natural Resource Office, at 938-2314.

**d. Wildlife**

(1) The trapping or killing of wild animals is prohibited except when authorization has been obtained from Wildlife Biologist, Natural Resources Branch, DHPW.

(2) Rattlesnakes at West Point are considered endangered species by New York State. Disturbance of rattlesnakes is strictly prohibited for the protection of the snake and humans. Violation of this is considered a felony. (A portion of training area "x" is designated as a training exclusion area and a protected habitat of the rattlesnake.) Rattlesnake sightings should be reported to the Wildlife Biologist.

(3) Disturbance of wildlife habitats, such as beaver dams or nests, is also prohibited.

**e. Fuel**

(1) Refueling of vehicles, equipment and aircraft is prohibited in the training complex. Exceptions are Camp Natural Bridge, Camp Buckner, Lake Frederick, and the Area K loading dock area. The USMA Environmental Office will review refueling procedures and certify them prior to dispensing of fuels.

(2) Fuel trucks and tankers may not be parked within 200 meters of lakes, ponds, streams, rivers, etc.

(3) A FUEL SPILL OF ANY KIND, NO MATTER THE SIZE, MUST BE REPORTED TO THE DHPW, ENVIRONMENTAL OFFICE DURING DUTY HOURS OR TO THE USMA FIRE DEPARTMENT DURING NON-DUTY HOURS.

**2-16. Range Gates and Keys.** All gates are secured with standard Range Control locks and will always be locked when the facility is unused. Keys to appropriate locks will be issued to authorized users (OICs and RSOs of Ranges, DHPW, Maintenance Shop, Water Treatment Plant, etc.) on a temporary hand receipt for up to 3 working days. Personnel with regularly scheduled use of a Training Area or facility exceeding 3 days may sign out a key on a semi-permanent hand receipt which will be updated every 6 months. Individuals who sign for and fail to return a key will incur pecuniary liability for a replacement lock and keys. Individuals who have signed for a key and fail to lock a gate upon completion of use of a Training Area or facility, may have their key sign-out privileges suspended.

**2-17. Control of Spectators and Military Family Members (MFM)**

a. Spectators frequently come to small arms demonstrations, training courses, competitions and other types of firing. Normally they must stay behind the firing line in areas designed by the OIC. There may be exceptions when experienced personnel are demonstrating weapons or where several persons in an inspection party are observing firing activities. In any case, the firing line and the area authorized for spectators will be well defined with proper signs and markings (e.g., engineer tape). Spectators (as part of an inspection team or official observers), even though required to be on the firing line as an exception to the foregoing policy, must remain behind or to the side of shooters. They must also stay to the rear of the muzzle but away from the recoil and back-blast area of all weapons on the firing line. OICs and RSOs or ARSOs are responsible for the safety and control of all spectators. Any spectators who

compromise the safety of the range or distract shooters or range personnel will be removed from the range.

b. The only time a MFM will be permitted on the firing line is under competent adult supervision and when engaged in an approved course of marksmanship training (e.g., Rod and Gun Club National Rifle Association (NRA) youth training or Junior ROTC). These MFM must obey all firing and safety regulations including the wear of hearing protection. Failure to comply with these rules will result in immediate removal from the firing line and a denial of the right to take part in live fire training in the future. All other MFM not actually engaged in firing or coaching must remain behind the firing line in designed areas.

c. All MFM or civilians engaged in firing, training or active use of the USMA Range and Training Complex must execute a Release from Liability (Appendix G, Figure G-3, or G-4). Spectators are excused from this requirement.

## **2-18. Damage, Loss, or Theft**

a. All damage, loss, or theft of Range Control property, facilities and/or equipment will be resolved through reports of survey or statement of charges, as appropriate IAW AR 735-5. All incidents of theft and those where criminal activity is indicated or suspected, will be immediately reported to the Military Police.

b. Storage buildings located on ranges and training areas are NOT considered secure. Telephones, radios, tools or other items of equipment will NOT be stored in buildings unless properly safeguarded. Security and guard requirements are detailed in AR 190-51.

c. The unit commander or OIC of the range or training site is responsible for the security of all ammunition and weapons, as well as unit equipment and USMA property. When ammunition and weapons are present, the commander will designate an individual to be present and responsible for the accounting of all arms and ammunition present on the range.

## **2-19. FM Radio Frequencies and Communications Wire**

a. Units/organizations intending to use FM communications at West Point must request the required number of frequencies from the S3, 1-1 IN/DPTM. Home station frequencies may not be used. This is necessary to preclude multiple units on the same frequency. The number of frequencies should be specified on the USMA Form 1-249 submitted for use of training facilities (Appendix G, Figure G-1). Frequencies which have been requested will be provided by S3, 1-1 IN/DPTM.

b. Communications wire (commo wire) must be policed up before a unit clears an area. No commo wire may be laid across a public road, or within 500 meters of a helipad.

**2-20. Model Airplanes.** The Director of Cadet Activities, Academic Club, the American Institute of Aeronautics (AIAA)/American Helicopter Society (AHS) Club, a cadet organization, will be permitted to fly model aircraft at the Bastogne Drop Zone. The Department of Civil and Mechanical Engineering will request once a year, at the beginning of the academic year, to be able to fly at this Drop Zone and provide Range Control with a schedule of flying. This activity will not interfere with the Cadet Parachute Team activities, as parachuting will have priority over model airplane flying.

**2-21. Training Exclusion Areas.** These areas are clearly marked on the West Point Ranges and Training Areas map by green diagonal, cross-hatching; No training of any type will be conducted in these areas to include bivouacking, parking or movement through the areas.

**2-22. Controlled Substances and Alcoholic Beverages.** Controlled substances and alcoholic beverages are strictly prohibited in the Training Complex. There are no exceptions. Unit parties, end of training cycle celebrations, non-duty hours, etc., are all unacceptable reasons for the presence of alcoholic beverages and/or controlled substances in the training complex. This prohibition includes unopened cans, bottles, etc. The discovery of any of the above will result in the immediate termination of training, and the ejection of the unit/organization from the USMA Training Complex.

## **2-23. Privately Owned Vehicles (POVs)**

- a. POVs are prohibited from the range and training complex except as noted below:
  - (1) On public roads: NY Rte. 293, Mine Torne Road (except when closed).
  - (2) During New York State deer hunting season with the permission of Hunt Control.
  - (3) Officer Representatives (OR) of cadet organizations may seek relief from this requirement from Range Control.
- b. POVs are prohibited from all ranges at all times. POV parking is provided at each range entrance. Exceptions may be granted by Range Control only.
- c. Range Control has the authority to alter this prohibition as operational needs dictate.

## **2-24 Weather**

- a. Severe weather warnings will be broadcast over the Range Control Net. Range Control will notify each unit to implement severe weather procedures.
- b. Range Control will broadcast over the Range Control Net all wetbulb readings as they are received.
- c. In periods of cold weather, Range Control will broadcast over the range Control Net the current wind chill factor as received.
- d. Range Control will curtail weapons firing during periods of limited visibility. When Range Control determines the visibility to be adequate, they will allow units to resume firing.
- e. Firing on Range 11 (Normandy) will not be permitted when lightning is in the vicinity. The power to the tower, targets, and computer must be shut off. Range Control will inform units when they resume firing.

## **CHAPTER 3**

### **Section I**

### **RANGE OPERATION REQUIREMENTS**

#### **3-1. WHO CAN BE AN OIC or SAFETY OFFICER**

- a. **Officer-in-Charge (OIC):**
  - (1) A commissioned officer, warrant officer, or noncommissioned officer in the grade of E-7 or above may serve as a range OIC/Non-Commissioned Officer In Charge (NCOIC). A SSG(P) may serve in this position if granted a waiver by Range Control. The using unit must request this waiver 30 days in advance of the range usage.
  - (2) A USMA cadet may serve as range OIC with the written approval of the Commandant of Cadets. When this occurs the Range Safety Officer (RSO) may not be a cadet.
  - (3) Only commissioned officers may serve as a range OIC during the conduct of artillery or mortar fire.
  - (4) Personnel detailed as a range OIC must:
    - (a) Have satisfactorily completed a standard program of instruction in the duties of a range OIC/RSO developed by the battalion/unit to which they are assigned. The Battalion Commander and only the Battalion Commander (or the first Lieutenant Colonel in the chain of command) will certify that the proposed OIC/RSO's have completed the program and have that certification on file at USMA Range Control before training can begin. (See Appendix G, Figure G-5.) Range control will issue each successfully certified soldier a USMA Range Certification Card.
    - (b) Be qualified on the weapons system being fired.
    - (c) Be familiar with this regulation.
- b. **Range Safety Officer (RSO):**
  - (1) A commissioned or warrant officer, or a qualified non-commissioned officer (E6 or above) may serve as an RSO. A SGT(P) may serve in this position if granted a waiver by Range Control. The using unit must request this waiver 30 days in advance of the range usage.
  - (2) A USMA cadet may serve as RSO with the written approval of the Commandant of Cadets. When this occurs the range OIC may not be a cadet.
  - (3) Officers, warrant officers and non-commissioned officers in the grade of E-7 or above may serve as RSO during artillery firing. Non-commissioned officers in the grade of E-6 or above may serve as RSO during mortar firing.

(4) Personnel detailed as RSO must:

(a) Have satisfactorily completed a standard program of instruction in the duties of an RSO developed by the battalion to which they are assigned. The Battalion Commander and only the Battalion Commander (or the first Lieutenant Colonel in the chain of command) will certify that the proposed RSO's have completed the program and have that certification on file at USMA Range Control before training can begin. (See Appendix G, Figure G-5.) Range Control will issue each successfully certified soldier a USMA Range Certification Card.

(b) Be qualified on the weapons system being fired.

(c) Have no other assigned duties and will be present during all firing.

(d) In order to replace an RSO on a range, the new individual must meet the same requirements as any other RSO or firing will be ceased.

(e) Be familiar with this regulation.

**c. Assistant Range Safety Officer (ARSO):**

(1) No rank requirement.

(2) Must be qualified or trained on the weapons system being fired.

(3) Sufficient assistants will be appointed by the OIC as required, based upon the type of training and facility used.

(4) On small arms ranges, an ARSO is needed for every five (5) firing points utilized.

## **Section II Responsibilities**

**3-2. The Superintendent, USMA,** is overall responsible for range safety.

**3-3. Commander of using unit** will:

a. Ensure that all personnel are familiar with range procedures and safety requirements.

b. Designate an OIC and RSO, IAW para 3-1.

c. Will ensure OIC, RSO and ARSOs are trained, qualified and knowledgeable of the weapons system being fired.

d. Ensure certification of the RSO's training is completed and on file at USMA Range Control prior to beginning training.

**3-4. Officer-in-Charge (OIC)** will:

a. Be responsible for the overall safe conduct of training and firing and the proper use of USMA facilities.

b. Be present during all firing or training and will only be assigned range OIC duties for one range at a time.

c. Determine when it is safe to commence firing.

d. Supervise the procedures for misfires, hangfires, and cookoffs.

e. Be totally familiar and knowledgeable of the weapons system and training being conducted.

**3-5. Range Safety Officer** will:

a. Be responsible for the final determination before firing that:

(1) Weapons are properly positioned.

(2) Only authorized ammunition is used, to include proper fuze, charge, and fuze setting are used.

(3) Firing settings and weapons are within prescribed safety limits and verified.

(4) Appropriate safety measures are taken and the surface danger zone is clear of personnel. This includes closing gates denying entry into the impact area and the posting of road and gate guards.

b. Order an immediate cease fire when any unsafe condition is observed.

c. On completion of firing, verify weapons are clear to the OIC and Range Control, and record duds and the approximate location.

## **Section III Actions and Procedures to be Followed by OIC.**

**3-6. Before range occupation** the OIC will:

- a. Thoroughly plan the operation and determine the support requirements.
- b. Receive the mandatory Range Control briefing within TEN DAYS prior to use. The OIC must contact Range Control NLT 72 hours prior to use to confirm scheduled training. Failure to do so may result in the scheduled training being cancelled.
- c. Ensure a qualified RSO is appointed and briefed by Range Control.
- d. Ensure that all personnel in a direct supervisory role or safety position are familiar with the provisions of this regulation, AR 385-63, and the TMs governing the weapons system and ammunition to be fired.
- e. Check in at Range Control upon arrival at West Point to receive an updated briefing and sign for the range and necessary equipment. All Summer Training Task Force personnel who will be serving as an OIC or RSO must receive the Task Force Briefing before they will be allowed to serve in those positions. All OICs of units using the Range and Training Complex must coordinate with Range Control to have their Training Area cleared before departure, regardless of whether it is one of the live-fire ranges or not.
- f. Maintain a DA Form 1594 (Staff Duty Journal) in the range tower. These forms are available at Range Control.
- g. Unit will inform Range Control of every change in status on the range. Units will accurately record on DA Form 1594 and inform Range Control telephonically or by radio the following: when the range is occupied, goes wet, goes dry, breaks for lunch, calls a cease fire, a fire is stated down-range, incidents, and radio checks with Range Control as a minimum.

**3-7. Before firing commences** the OIC will:

- a. Conduct a joint inventory with a Range Control representative to ensure the presence and condition of the range facilities and equipment.
- b. Ensure the correct range or firing position is occupied.
- c. Ensure the impact area is clear of unauthorized personnel and safety measures directed by range control have been taken to include checking on range gates, barriers and guards.
- d. Ensure required medical support is on site.
- e. Establish communications with Range Control using radio and commercial telephone. The using unit will make hourly communications checks by both means to Range Control. The OIC will maintain communications with all gate guard(s). OICs will "CEASE FIRE" whenever any of the above communication is lost.
- f. Post road and barrier guards IAW this regulation and any special instructions issued by Range Control.
- g. Ensure only authorized weapons and ammunition, including proper charges and fuzes are about to be used.
- h. Ensure ammunition to be fired is within prescribed safe temperature limits.
- i. All firing precautions have been taken.
- j. Brief all personnel concerning:
  - (1) Range limits.
  - (2) Soldier movement on the range.
  - (3) Procedures for directing a "CEASE FIRE" when unsafe conditions are observed.
  - (4) Low flying aircraft procedures (see para 9-4).
  - (5) Personal protection (kevlar helmet, earplugs, etc.).
  - (6) DUD identification and safety.
  - (7) Central weapons clearing point.
  - (8) Ammunition point.
  - (9) Weapons storage point.
  - (10) Break/smoking area.
  - (11) Weapons safety and malfunctions.
  - (12) Equipment malfunctions.
- k. Ensure personnel do not enter any impact area nor move forward of the base line of any range without permission from Range Control.

- l. Display the scarlet danger flag on the range flagpole.
- m. Display blinking red lights on the left and right range limits during reduced visibility periods. There will also be a red light placed on the flag pole indicating the range is in use during limited visibility firing. Lights will be provided by Range Control.
- n. Verify that all weapons are mechanically safe to fire. A weapon will not be fired if it is overdue for borescoping, gauging, required periodic inspection, or the application of a modification work order (MWO).
- o. Verify that all personnel wear required hearing and head protection, and eye protection if necessary.
- p. Ensure that all left-handed firers have applicable brass deflectors installed on their weapons.
- q. Ensure the security and safety of ammunition. Under no circumstances will ammunition or explosives be unguarded or unattended. Ammunition must be stored in the designated area and no smoking is allowed within 50 feet of the ammunition or the firing line.
- r. Have on-hand:
  - (1) AR 385-63 (Included with Range Packet).
  - (2) USMA Bulletin for that day authorizing use.
  - (3) USMA Regulation 385-11, Range Regulation, complete with the 1:25,000 West Point Training Complex Map.
  - (4) Written approval of any exceptions of this regulation.
  - (5) Applicable Technical Manual (TM) and Field Manual (FM) for each weapon being fired. The OIC and RSO must be knowledgeable in the operation of each weapon being fired.
- s. Ensure that all firing will be conducted from prescribed firing points and that limits are indicated by yellow and black panels visible to all firers.
- t. Receive permission from Range Control to use restricted air space (R-5206) for ranges 2, 6, 12, and for demolitions in areas T2 and W.
- u. Request permission to commence firing from Range Control.

**3-8. During operation of the range** the OIC will ensure that:

- a. All means of communication with Range Control are operative.
- b. Personnel do not move to or leave the firing line on small arms and crew-served weapons ranges without permission of the OIC or RSO.
- c. He maintains constant observation of the firing line at all times during range firing.
- d. "CEASE FIRE" is called immediately in the event of safety violations, low flying aircraft, fires, or other exceptional circumstances.
- e. Material is not removed from the firing line without permission of the OIC or RSO.
- f. Frequent inspections of the bores of weapons are made to ensure that no obstructions are present due to mud, snow, sand, or other material.
- g. The surface danger zone is monitored to ensure it remains clear.
- h. If an unsafe condition is noted while firing, the individual first noticing the unsafe act will immediately call "CEASE FIRE." On command "CEASE FIRE," all firers will immediately lock their weapons. If a "CEASE FIRE" is ordered by Range Control when a safety violation is detected, only the Range Control Specialist, NCOIC, or Range Operations Controller on duty at the time may lift the "CEASE FIRE".
- i. On ranges 2, 6, and 12 impacts are observed to ensure projectiles land within the prescribed impact area.
- j. Misfires are removed from the weapon only on command of the RSO IAW procedures established for the weapon.
- k. Weapons are cleared and checked during temporary suspensions of firing.
- l. DA Form 1594 is maintained with all significant actions recorded to include the type ammunition fired, the number of rounds fired, the number of duds and their approximate location.

**3-9. After firing**, the OIC will ensure that:

- a. All weapons are cleared and accounted for.
- b. Range Control is notified of completion.



- c. The red danger flag is lowered and turn off blinking red lights, as applicable.
  - d. The number of duds and their approximate location are reported to Range Control.
  - e. All brass, packing material, and unexpended ammunition are returned through normal supply channels.
  - f. Police and check condition of the range, and repair targets for the next day's firing. All trash will be deposited in containers at the trash collection point located at each range.
  - g. All personnel are searched for ammunition or brass prior to departure from the range.
  - h. All explosive charges, simulators, and pyrotechnics are accounted for and removed from the area.
  - i. All weapons have been cleared of ammunition (by rodding) prior to removal from the firing line.
  - j. A joint inventory is conducted with a Range Control representative in order to receive approval for departure.
  - k. Disposal, by burning, of all unused powder/ propellant increments of howitzer and mortar ammunition will be completed IAW Range Control instructions.
- (1) There will be no burning until Range Control has been notified, which will in turn notify the West Point Fire Department. All burning will be accomplished in burn pans provided by Range Control. There will be no on-the-ground burning. In addition, there will be no burning if DHPW determines that an extreme fire hazard exists on the USMA reservation (see paragraph 5-5). In this case, unused propellant increments will be returned to the ASP from which the ammunition was drawn.
- (2) The burning site will be at least 50 meters from personnel and equipment. All powder charge increments to be destroyed will be placed in a single-layer row not more than one half of a meter in width, and not more than three (3) inches in depth. Avoid tamping of increments or in any way confining them in a manner which will cause them to explode when ignited. The row of increments will be placed so that burning will progress into the wind. The last bag at the downwind side will be broken open and a trail of powder run from the next bag to the rear. The powder will be ignited by lighting the last bag and placing it on the powder. Matches, cigarettes or lighters will not be used to directly ignite the powder/increments. A lag tip drenched in diesel fuel will be ignited and used to ignite the powder. Safety personnel performing the destruction will withdraw to a safe distance after igniting the starting material and will have:
- Two shovels.
  - One 5-gallon can of water.
  - One 5-pound fire extinguisher.
- (3) The burn site will be at least 100 meters from the firing line and least 50 meters from all power lines.
- (4) Personnel will avoid all contact with the propellant, the smoke from burning propellant, and the residues from burned propellant. All personnel should be at least 50 meters from the burn site during burning and should stand upwind of the burning propellant.
- (5) Personnel who may come in direct contact with the propellant or the burned residue must have all sleeves rolled down, and wear gloves, and goggles. If for some reason a person must enter the smoke of burning propellant, they must wear a respirator with high-efficiency (HEPA) cartridges.
- (6) Unburned residue will be picked/swept up daily after the powder increments are burned. This residue will be deposited in a 55 gallon drum located next to the burn site. The DHPW Environmental Control Officer will be notified when this container is full so that it can be appropriately tagged, sealed, and disposed of per local and state environmental disposal procedures.

#### **Section IV**

##### **Actions and Responsibilities of the RSO.**

#### **3-10. Before firing, the RSO will:**

- a. Ensure familiarity with this regulation, AR 385-63, and applicable TM's and FM's.
- b. Ensure sufficient qualified assistants are appointed and that each is aware of their responsibilities.
- c. Verify with the OIC the requirements of Sections II & III above are met.

#### **3-11. During firing the RSO will:**

- a. Be present at all times on the firing line.
- b. Perform no other duties except that of RSO.
- c. Ensure safety is paramount.
- d. Call for a "CEASE FIRE" whenever a safety violation
- e. Ensure the requirements of paragraph 3-3 are met.

**3-12. After firing**, the RSO will ensure the requirements of paragraph 3-3 are met.

## **Section V**

### **ACTIONS AND RESPONSIBILITIES OF THE PINE RIDGE RAPPEL SITE, BULL RUN WATER CONFIDENCE TRAINING SITE, LUNDY'S LANE LEADERS REACTION COURSE, ANZIO OBSTACLE COURSE, AND MARNE CONFIDENCE COURSE OIC.**

**3-13. Before occupation** the OIC will:

- a. Thoroughly plan the operation and determine support requirements.
- b. Receive the mandatory Range Control briefing within ten days prior to use. The OIC must contact Range Control NLT 72 hours prior to use to confirm scheduled training.
- c. Check-in at Range Control upon arrival to be briefed and sign for equipment and supplies.
- d. Maintain a DA Form 1594 (Staff Duty Journal). Ensure every change in status of the site/course is accurately recorded. Indicate the time the site is occupied, training begins, incidents occur and will conduct hourly radio checks with Range Control.
- e. Ensure the commander has appointed a qualified Safety Officer to assist in the operation of the training site.

**3-14. Before training commences** the OIC will:

- a. Conduct a joint inspection with a Range Control representative to verify the condition of the facility and equipment being used.
- b. Establish radio communication-with Range Control. Make hourly communication checks with Range Control to ensure users can be reached immediately in case of emergency.
- c. Brief all personnel concerning:
  - (1) Soldier movement within the limits of the site/course site.
  - (2) Personal protection (helmet, gloves, etc.)
  - (3) Break/smoking area.
  - (4) Equipment characteristics and malfunctions.
- d. Ensure mandatory medical coverage is present.
- e. Have on-hand:
  - (1) USMA Post Bulletin for that day authorizing use of the site.
  - (2) USMA Regulation 385-11, Range Regulation.
- f. Perform a visual inspection of equipment and obstacles for serviceability and safety. If any doubt exists whether an obstacle, or piece of equipment should be used DO NOT use it. Report any discrepancies to Range Control.
- g. Request permission to commence training from Range Control.

**3-15. During training** the OIC will:

- a. Maintain radio communication with Range Control.
- b. Ensure that if he must depart the area at anytime while training is being conducted, an equally qualified OIC is appointed. Range Control will be notified prior to the change.

**3-16. After training is concluded** the OIC will:

- a. Notify Range Control of completion.
- b. Police and condition the site for the next day of training. All trash will be deposited in the containers at the trash collection point.
- c. Conduct a joint inspection with a Range Control representative in order to receive approval for departure.

## Section VI

### 3-17. Helmets.

- a. Steel or ballistic (Kevlar) helmets will be worn for safety and protection by military personnel on the firing line of all ranges and while rappelling. This requirement applies to firer's and non-firer's (coaches, range personnel) alike.
- b. Helmets are not required on the Skeet Range.
- c. Civilian firers are not required to wear helmets at the skeet range and recreational pistol range (ranges 9 and 10).

**3-18. Ear Plugs.** Ear plugs or other hearing protectors will be worn by all personnel involved in weapons firing and explosive and demolition training.

### 3-19. Target Shooting.

- a. Random target shooting on any range or in any training area on the West Point Military Reservation is prohibited. Target shooting conducted on outdoor ranges will be in accordance with the procedures outlined in this regulation.
- b. Target shooting by hunters in an authorized hunting area is prohibited.
- c. These guidelines promote the safe operation and use of the ranges and training areas by all users. These will be enforced by Range Control and the Provost Marshal (PM). Anyone may report violations to DOPS, CDR, 1-1 IN/DGC-WP, Provost Marshal or Range Control.

**3-20. Authority of Range Control Personnel.** Range Control personnel are responsible for the enforcement of the Range Regulation. Their authority in the Training Complex is indisputable. An organization experiencing a difference of opinion with Range Control personnel will comply with guidance given by Range Control. Issues not favorably resolved may then be appealed in turn to the Range Control Specialist and the CDR, 1-1 IN/DGC-WP and then DOPS. Range Control will follow all safety procedures while inspecting the range. Range Control personnel may be identified while in the Training Complex by a red Range Control, baseball style cap.

**3-21 Target Mechanisms.** At no time will anyone, other than Range Control personnel, attempt to repair a pop-up target mechanism. Notify Range Control of the firing point and the distance where the bad mechanism is located.

**3-22. Alcohol Consumption.** There will be no drinking of alcoholic beverages or use of controlled substances on the Ranges and Training Complex at the USMA. There are no exceptions to this policy. Violation of this policy will result in expulsion from the West Point Military Reservation, and possible formal charges.

**3-23. Painting on Ranges and Training Areas.** The painting of buildings, rocks, trees, etc., is prohibited. This prohibition also applies to unit insignia and slogans. Units desiring to position temporary signboards must coordinate their positioning with Range Control. Summer Training TF units may formally request a exception to policy from Range Control.

## CHAPTER 4

### SAFETY

### WEAPONS, AMMUNITION, AND EXPLOSIVES

#### 4-1. General Weapons Handling.

- a. All weapons will be inspected by an RSO or ARSO before firing and upon completion of firing prior to leaving the range to include when using blank ammunition.

- b. Bolts will be open and weapons locked except when actually engaged in live or dry fire exercises or as allowed IAW the appropriate FM or TM. Weapons will be placed in racks or properly stacked when not in use.
- c. On command "CEASE FIRE" the firer will lock the weapon.
- d. On command "CLEAR YOUR WEAPON" the firer will open the bolt, lock the weapon, and remove all ammunition to include blanks. Weapons will be locked in the safe position.
- e. Weapons will be carried in such a manner that the muzzle of the weapon is always pointed up and down range.
- f. Under NO circumstances will any weapon be removed from the firing line while loaded or when suspected of having a round in the chamber or receiver. Any weapon not checked by rodding will be considered unsafe.
- g. Weapons may be taken into bleachers but will be in the possession of the user. They will not be left unattended. When weapons are not in use, they will be placed in racks or stacked. Weapons will be under guard at all times.
- h. Weapons will not be stored in buildings/connexs overnight on any range or training area. Ammunition (small arms only) left on the range must be stacked on a wooden pallet, surrounded by a row of concertina at least ten feet from the container, with a 24 hour guard posted on the outside of the perimeter of concertina.
- i. Blank adapters must be used when firing blank ammunition. Only standard issue adapters may be used.
- j. During prone firing exercises, left-handed firers will be positioned on the right hand side of the firing line.

#### **4-2. Stoppages and Immediate Action.**

- a. A weapon stoppage is the unintentional interruption of the cycle of operation. This may be caused by improper functioning of the weapon or faulty ammunition.
- b. Types of stoppages.
  - (1) Misfire: A misfire is a failure to fire. It is generally caused by defective ammunition, but may be the result of a weapon's malfunction caused by defective or broken parts in firing mechanisms, broken firing pins, foreign matter in the chamber. This stoppage cannot be immediately distinguished from a delay in functioning of the firing mechanism or a hangfire (see below) therefore, it should be treated as such until this possibility has been eliminated. Rounds should not be left in the chamber of a hot weapon any longer than necessary because of the possibility of a cook off. (See below.)
  - (2) Hangfire: A hangfire is a delay in the functioning of a propelling charge at the time of firing with the length of delay being unpredictable. A hangfire cannot be distinguished immediately from a misfire.
  - (3) Cook Off: A cook off is the functioning of a chambered round due to the heat of a weapon. Should the primer or propellant charge cook off, the projectile will leave the weapon at normal velocity even though no contact occurred between the primer and the firing mechanism.
- c. Common stoppages: All weapons will function efficiently if properly maintained. The firer must watch for defects or probable causes and correct them before they cause a stoppage. Some of the common stoppages that can be remedied by the individual are failures to feed, chamber, lock, fire, unlock, extract, or eject.
- d. Immediate Action: Immediate action is the unhesitating application of a probable remedy to reduce a stoppage without investigating the cause. Immediate action to reduce stoppages of weapons must be applied consistent with the TM for the weapon being utilized in which the stoppage occurs.
- e. In all cases where a weapon has malfunctioned at a firing point and immediate action does not remove the stoppage, the weapon will be checked by an ARSO, moved to the extreme end of line and serviced by maintenance personnel. Personnel investigating malfunctions will wear protective goggles/glasses at all times while handling weapons. These items will be present at each range. All defects or nonstandard conditions noted within various types of weapons or ammunition will be brought to the attention of the Chief, Supply and Services Division, DOL.
- f. Under NO circumstances will any individual attempt to reduce a stoppage of a weapon by use of force or tools not specifically designed for such a purpose.

#### 4-3. Weapons Clearance.

##### a. All Rifles and Carbines Less M16 Rifles.

(1) Immediately prior to firing, a cleaning rod with patch affixed will be passed through the bore of each weapon to ensure the bore is not obstructed. Note: No additional firers will be "rodded on" to the firing line while there is live-fire in progress.

(2) Upon completion of firing, an RSO or ARSO will clear each weapon by visually checking the chamber and receiver and passing a cleaning rod through the bore.

##### b. M16 Rifles.

(1) Immediately prior to firing, a cleaning rod will be passed through the bore of each weapon to ensure the bore is not obstructed. Note: No additional firers will be "rodded on" to the firing line while there is live-fire in progress.

(2) Upon completion of firing:

(a) Engage safety, remove magazine, and ensure bolt is locked to the rear.

(b) A RSO or ARSO will clear each weapon by visually checking the chamber, magazine well, magazine, and passing a cleaning rod through the bore.

##### c. M60 Machine Gun.

(1) Immediately prior to firing, a cleaning rod with patch affixed will be passed through the bore of each weapon to ensure the bore is not obstructed. Note: No additional firers will be "rodded on" to the firing line while there is live-fire in progress.

(2) Upon completion of firing:

(a) The cover will be raised; ammunition belt removed; bolt locked to the rear; safety on SAFE position; a visual check made of the chamber, receiver, and barrel after which a cleaning rod will be passed through the bore and the bolt moved to the forward position.

(b) The barrel of each weapon will be separated from the receiver group and a visual check made of the chamber for ruptured cartridges.

(c) All M60 machine guns will be kept in a prescribed area with the bolt forward and the safe/fire select switch in the SAFE position when not in use.

d. M136 (AT-4). All firing of AT-4 will be IAW FM 23-25, chapter 6. Prior to firing, all range personnel will be specifically briefed on the procedures for misfires and hangfires. All failures to fire will be considered hangfires until all misfire procedures have been observed (TM 9-1315-886-12). Normally, only TP ammunition will be fired on West Point ranges 7 and 8. High explosive rounds are authorized on West Point Ranges 7 and 8 with the approval of the Commander, 1-1 IN/DGC-WP.

e. M203/M79 (40mm) Grenade Launcher. Range operations with the 40mm grenade launcher will adhere to procedures specified in FM 23-31 (40mm Grenade Launchers, M203 and M79). High explosive rounds are authorized on Ranges 7 and 8 only with approval by CDR, 1-1 IN/DGC-WP.

#### 4-4. Ammunition (General).

a. Any alterations, assembly, or disassembly of loaded ammunition (live or blank), is expressly prohibited without the approval of the Commanding General, Armament, Munitions, and Chemical Command.

b. Live ammunition will only be fired on approved ranges.

c. Ammunition will not be exposed to direct sunlight. Boxes will be closed and ammunition will be shaded.

d. Ammunition and brass will not be left unattended.

e. In no case will personnel tamper with ammunition.

f. Ammunition lot integrity will be maintained at all times. Lot numbers will be carefully checked to ensure uniformity.

g. Live grenades and practice grenades will be strictly controlled. Each range using this type munitions will ensure all personnel receive an orientation of the proper procedure for handling grenades. Practice and live grenades will NOT be on the firing line at the same time.

(RANGE 1)

h. Smoking will not be allowed within 50 feet of established ammunition points.

i. Live mortar rounds will not be used for the demonstration of misfire procedures. Only inert, training practice rounds will be used for this purpose.

j. Turn-in of unexpended and/or faulty ammunition will be as prescribed in USMA Ammunition Supply Point SOP.

k. Prior to firing, the OIC will assign an NCO to be responsible for control of the ammunition point.

l. Munitions may only be stored on ranges IAW AR 385-63, AR 385-64, AR 190-11, and TM 9-1300-206. The range OIC will ensure that no one departs the range in unauthorized possession of ammunition.

#### **4-5. Prohibited Ammunition.**

- a. Armor piercing (AP).
- b. White phosphorus (WP).
- c. Tracer (during periods of increased fire hazard).
- d. Munitions for weapons other than those listed in Chapter 6 (Figure 6-1).
- e. Demolition charges over 16 lbs per detonation. Bangalore torpedoes are the exception, and will only be fired in areas specified by Range Control.

#### **4-6. Blank Ammunition.**

a. When blanks are fired, properly secured regulation blank adapters will be used. Personnel issued blank ammunition will be briefed thoroughly on its use and hazards. At the completion of an exercise in which blank ammunition has been used, the OIC of firing will conduct an inspection of all weapons and personnel for unexpended rounds. Weapons will be locked in the safe position.

b. Blank ammunition will not be fired at personnel at distances of less than 25 meters to preclude injuries which may result from muzzle blast or faulty blank adapters.

c. Foreign matter, such as twigs or gravel, will not be placed in the barrel of the weapon.

d. Unused blank ammunition will not be discarded on the range. It will be turned into the ASP from which drawn.

#### **4-7. Pyrotechnics and Chemicals.**

a. Flares and pyrotechnics may be used during training, weather and safety factors permitting. A fire hazard matrix reference is provided in Chapter 5, para-5-11b.

(1) Blank ammunition, flares, and simulators cause a majority of the forest fires at West Point. Units starting forest fires will immediately attempt to put the fire out using any means available (See para 2-13), and report the fire to Range Control, even if the unit was successful in extinguishing the fire.

(2) Trip flares and booby traps not detonated during training will be removed prior to departing the area.

(3) Use of Demolition Effects Simulators (DES) is authorized in the training areas. DES will be treated as a pyrotechnics device. An officer or non-commissioned officer certified to conduct demolition training and range certified must be present when using DES. Company Commander or OIC at demolition training must provide a list of the grid coordinates and overlay for the locations where DES will be used to Range Control. During periods when the fire hazard is high, the OIC will initiate DES using a command detonating system only. The OIC will ensure minimum safe distances (MSD) are enforced and tactically or administratively cleared. NO blasting caps or firing systems will be attached to any DES unless a demolition NCO is notified and approves.

b. Use of any form of tear gas or riot control agents is limited to CS and CN gas only, and will be supervised by a qualified, designated RSO. Prior to training, units using CS or CN gas will notify Range Control of place and DTG of use. The RSO will ensure that tear gas is not employed under the following conditions:

- (1) Within 500 meters of reservation boundaries.
- (2) Within 500 meters of public highways (see para 2-23).
- (3) Within 10 meters of personnel when detonating burning grenades.
- (4) Within 500 meters of the Cottage at Bull Pond, or other recreation sites.
- (5) Within 500 meters of a live-fire range.

c. Units desiring to conduct gas chamber exercises, should bring an adequately sized tent to conduct this training. Gas tents may be set up anywhere within the reservation except as specified above. Only pellets may be used in a tent or other flammable structure.

d. A permanent gas chamber was constructed in June 1994, and is located in Area "P".

e. Range Control may limit the use of Chemical Agents and pyrotechnics at anytime.

#### **4-8. Duds.**

a. A dud is any explosive munition which has been fired or otherwise activated and has failed to detonate.

b. Any object whose appearance indicates that it may be a dud will be assumed to be one. It will not be touched, moved, heated, or jarred in any manner.

c. Duds occurring down range do not necessitate a cease fire unless the Range OIC deems them to be a safety hazard. In the event a dud hand grenade occurs, all training must cease until the dud is rendered safe by Explosive Ordnance Disposal (EOD) personnel.

d. Range Control will direct appropriate ranges to "CEASE FIRE" during dud disposal.

#### **4-9. Disposal and/or Demolition of Munitions.**

a. The following activities are considered part of the intended use of the munitions and can be performed at USMA without a permit:

(1) Detonation of unexploded ordnance in place.

(2) Range clearance providing munitions are not transported off the range and detonated elsewhere.

(3) Burning of excess propellant at the site it is generated, as part of a training exercise. (The current method of burning excess propellant in the burn pan at Range 2 is acceptable).

b. The following activities are considered emergency response activities and can be performed at USMA without a permit:

(1) Detonation of unexploded ordnance and explosives in place as part of an emergency response action to mitigate a hazard.

(2) Transportation and same day disposal of unexploded ordnance and other explosives on USMA ranges providing that the operation is part of an emergency response operation in which the explosives are transported to the nearest safe place for detonation and immediately detonated.

c. Accumulation and storage of munitions or explosives prior to disposal requires a RCRA permit and can not be done at USMA. Examples of activities which require a permit and can not be performed here are listed below:

(1) Accumulation and storage of explosives from off post for on post detonation at a later date.

(2) Collection and transportation of unexploded ordnance to a central location where it is stored and detonated at a later date.

#### **4-10 Ammunition Misfires.**

a. Should a misfire occur during the firing of ammunition having a mechanical, time, base, or point detonation fuse, corrective action will be applied applicable field or technical manuals.

b. All misfires or malfunctions will be reported immediately to the Range OIC.

c. Misfires will be unloaded only on command of RSO.

d. After removal from the weapon, the misfire will be placed in a misfire pit located a safe distance away from the weapon position. All misfires will be reported to Range Control immediately.

e. Explosives or ammunition remaining in the misfire pit at the completion of firing will be guarded against pilferage or unauthorized handling until removed or disposed of by appropriate means. Only those misfires identified by ASP personnel as dangerous will be handled by EOD personnel. Refer to USMA ASP SOP for specific instructions. No misfired rounds will be removed from the range until they are inspected by EOD or Range Control personnel. If a misfire needs to be transported for disposal, EOD will transport the round.

f. If excessive misfires occur, Range Control will be notified so that the cause may be investigated. Should it be determined that the ammunition is faulty, use of the ammunition from that lot will be suspended and withdrawn from the respective range.

g. The USMA Ammunition Officer will be advised of excessive misfires and report excessive rates (Table B-1, AR 75-1) to AMCOM. He will also investigate malfunctions and prepare reports in conjunction with the Chief, Supply and Services Division, USMA DOL (applies only to ammunition issued by the USMA).

**4-11. Ammunition Amnesty Program.** The Ammunition Amnesty Program is designed to ensure maximum recovery of ammunition and explosives. This program is not intended to circumvent normal turn-in procedures. Small arms ammunition (up to and including 7.62MM) may be placed in the amnesty barrel next to building 1403. Other munitions and ammunition above 7.62MM will be retrieved only by EOD, ASP or Range Control personnel. Documentation is not required for turn-in under the Ammunition Amnesty Program. Contact West Point ASP Office at (914) 938-3216 or DSN: 688-3216 for further information.

#### **4-12. Laser Operations.**

a. Firing/lazing positions will be requested by 8 digit grid coordinates for the period of intended use only, to include the time the unit plans to start operations and the anticipated time of closing the position.

b. The laser target area is outlined on the West Point Ranges and Training Area map by a red rectangle with corners at these grids: WL82187944, WL82557931, WL81947795, WL81437829. This is the only place the laser may be targeted at.

c. Lazing unit commander will:

(1) Select, train and safety certify the personnel necessary to assist him in complying with the provisions of Chapter 20, AR 385-63.

(2) Provide adequate control of the prohibit entry of unauthorized personnel.

(3) Designate a Laser Range Safety Officer/NCO (LRSO/LRNCO) for each lazing site (can be the senior person at the site provided he is safety certified).

d. LRSO/LRNCO duties:

(1) Know the azimuths and elevation of each range, firing position and target to be used.

(2) Stop lazing immediately if positive control of laser beam is lost.

(3) Ensure unprotected personnel are not exposed to either direct beam, or the beam reflected from a specular (mirror like) surface.

(4) Ensure appropriate warning signs are in position to alert personnel that a laser is in use.

(5) Ensure personnel down range from the laser are cleared or are wearing Ballistic Laser Protective Goggles.

## **CHAPTER 5**

### **EMERGENCY PROCEDURES AND REPORTS**

#### **Section I**

**5-1. Fires.** This section applies to the USMA Training Complex. Procedures for overall woodland fire prevention and control program are the responsibility of USMA Engineer, as Fire Marshal, in conjunction with the USMA Fire Chief..

a. All fires, regardless of size or intensity, will be reported as soon as they are observed to Range Control or the 1-1 IN SDNCO (938-8846). During the summer training period also contact the CFT S3 at 938-3425/4709.

b. Personnel will not enter DUD DANGER AREAS, or areas in which the presence of munitions of any type are believed to be.

#### **Section II**

#### **Responsibilities**



**5-2. Fire & Emergency Services (F&ES)** is responsible, in coordination with the USMA Forester, to determine appropriate fire control strategies. Woodland fires that threaten life or property will be extinguished.

**5-3. Engineer Platoon, HHC, 1/1 IN** is designated as a Fire Team when needed. The Engineer Platoon, when activated by the USMA Engineer ICW CDR, 1-1 IN/DGC-WP, shall furnish fire teams and equipment to extinguish woodland fires under the direction of the F&ES.

**5-4. 2nd Aviation Detachment, 1/1 IN**, will provide Fire Bucket support to help extinguish woodland fires as needed.

### **Section III General**

#### **5-5. Fire Reporting Procedures**

- a. Call 938-3001 or 117 (Fire Department).
- b. During Cadet Summer Training notify the Camp Buckner Fire Department (938-2953) and CFT S3 (938-3425/4709) or 1-1 IN SDNCO(938-8846).
- c. Call Range Control x3930/4317, or via radio, 50.00 Mhz (FM).
- d. The individual reporting a fire will give his/her name, title or rank, location and a brief description of the nature of the fire and the action being taken to contain or extinguish the fire.
- e. Report the location of fire using the USMA Training Complex Map (scale:1:25,000). The use of grid coordinates is preferred, but describing the location is also acceptable. (Example: Area M, northeast slope of hill 1373; Range 3 - Down range 300 meters.)
- f. Send a guide to the nearest entrance road.
- g. Attempt to extinguish the fire. (Use supporting troops and cadets if necessary.)
- h. Suspend training only if necessary to avoid a major fire or hazard.

#### **5-6. Organization**

- a. The F&ES will man and equip Station #3, 938-5197/2953, from approximately 15 May to 30 September or when significant number of occupants require fire protection in Camps Buckner or Natural Bridge. The F&ES fire station at USMA will serve as an alternate fire control center, 938-3001/3151.
- b. The F&ES will establish an on site command post at the woodland fire site.
- c. The senior officer on duty at the F&ES will be in charge of all firefighting operations at the woodlands fire.

#### **5-7. Personnel**

- a. Initial Operations: The F&ES will initially accomplish any firefighting at a woodlands fire.
- b. The F&ES will recall all fire personnel to duty under directions from the senior fire officer on duty if the woodlands fire cannot be controlled by the on duty personnel.
- c. The CDR, 1-1 IN/DGC-WP, will activate the Engineer Platoon and 2nd Aviation Detachment to furnish fire teams and equipment to assist the F&ES when requested by the USMA Engineer or the fire officer on duty.
- d. By direction of the Superintendent, cadets and soldiers in the immediate vicinity of the woodlands fire will render assistance to the F&ES as requested. They will be released by the senior fire officer as soon as possible.
- e. Augmentation Units.
  - (1) Units assigned to USMA will be prepared to provide fire teams upon request of the Fire Chief with the approval of the USMA Engineer. Each fire team will consist of 15 soldiers. Units will coordinate with F&ES for biannual firefighting training.
  - (2) Units temporarily assigned to USMA and who are assisting with cadet training will be prepared to provide fire teams. Fire teams will consist of 15 soldiers. Training will be provided by the F&ES at the request of the commanding officer of said units.

(3) All fire teams will report to the woodlands fire site unless otherwise directed. All fire teams will be equipped with hard hats, leather work gloves, pistol belt, and a canteen of water. DHPW will provide equipment, less canteens and pistol belts.

f. Cadet Assistance.

(1) Cadet assistance (other than those discussed in para “d” above) will only be requested after all personnel (F&ES, Engineer Platoon, 2nd Aviation Detachment, units assigned and units temporarily assigned to USMA) have been utilized and woodland fires are uncontrollable.

(2) The USMA Engineer will authorize the request for cadet assistance from the Fire Chief to the commanding officer at Camp Buckner, and/or the Commander, Cadet Field Training. Requests shall specify, by number, cadet fire teams requested. Fire teams will consist of 15 cadets. All cadet fire teams will be equipped as described in para e(3) above.

(3) Cadet fire teams will report to a designated area to link up with vehicles, tools and receive instructions. They will operate as a unit under the direction of the senior fire officer in charge of the fire.

(4) Firefighting training will be accomplished by the F&ES upon the request of the Commandant of Cadets.

## 5-8. Equipment

a. DHPW will maintain woodland firefighting equipment at the Camp Buckner Fire Station for 100 personnel.

b. DHPW will, as necessary, deploy the necessary firefighting equipment and tools to the site of the woodland fire for use by all fire teams assisting the F&ES.

c. All other equipment (e.g. dozers, etc.) will be transported to the site of the woodland fire by the Engineer Platoon.

d. The Engineer Platoon will report for duty with the following fire fighting equipment:

- (1) water carrying back packs
- (2) fire helmets (hard hats)
- (3) goggles
- (4) fire shirts
- (5) fire gloves
- (6) fire rakes

**5-9. Aviation Support.** The Fire Chief or, in his absence, the senior fire officer in charge will contact the CDR, 1-1 IN/DGC-WP to request helicopter firefighting support.

## 5-10. Communications

a. The USMA F&ES is equipped with mobile and portable radios for communications in the fire area and/or between the fire areas and the fire control center.

b. Incoming military units should be equipped with their organic portable radios for communications in the fire areas.

c. Additional portable radio sets may be obtained by contacting the Signal Section, Camp Buckner, 938-4307.

## 5-11. Burn Index

a. The USMA Fire Department maintains a forest fire danger station at the Camp Buckner Fire Station, bldg 1545. Fire danger observations are made daily at 1300 hours, standard time, to determine the existing fire danger condition. The observed condition is posted on a color-coded sign at the main entrance to Camp Buckner, Camp Natural Bridge, and Washington Gate.

(1) Green. The fire danger is LOW. Fires do not ignite readily from sparks or small fire brands, although a more intense heat source such as flares, grenade simulators, and pyrotechnics may start fires.

(2) Blue. The fire danger potential is MODERATE. Fires can start from most natural or manmade causes. Woods fires will spread slowly to moderately fast. Fires are not likely to become serious, and control is relatively easy.

(3) Yellow. The fire danger is HIGH. Fires will ignite easily from most causes, and will spread rapidly. Short distance spotting is common and fires may become serious and difficult to control.

(4) Orange. The fire danger is VERY HIGH. Fires will start easily from all causes and will spread rapidly increasing in intensity. Spotting fires are a constant danger. Control is difficult and dangerous to inexperienced personnel attempting to control the fire.

(5) Red. The fire danger is EXTREME. Under this condition, fires start quickly, spread furiously, and burn intensely. All fires are potentially serious. High intensity burning will usually develop faster, and will spread rapidly from smaller fires. Crown fires may develop and become unmanageable until the weather changes or the fuel source is consumed. Control is extremely dangerous to all personnel.

(6) The current fire danger index condition can be obtained by contacting the WP Fire Dept. at 938-3001/2953, or by contacting Range Control at 938-3930/4317.

b. The following guide will be used to determine the status of tracers and pyrotechnics:

#### PYROTECHNIC FIRE HAZARD DECISION MATRIX

Action	Green	Blue	Yellow	Orange **	Red **
No Restrictions	X	X	X		
No parachute flares or star clusters			C	X	X
No ground flares *			C	X	X
No smoke pots *			C	X	X
No smoke grenades *			C	X	X
No demolition *			C	X	X

C = Exercise caution when executing listed action      X = Execute listed action

\* = Note: These pyrotechnics can be used during all burn index categories except red if they are ignited and extinguished in a controlled burn pit. This pit must be inspected by the Fire Chief prior to use.

\*\* = NOTE: Ranges are limited to ball ammo only under categories orange & red.

#### 5-12. Training Restrictions

a. The USMA Engineer, upon receiving a request from the Fire Chief, will recommend munitions restriction measures to Range Control; the Director, DMI; and the Commandant, USCC, during the summer training periods.

b. The USMA Engineer, upon receiving a request from the Fire Chief, will recommend munitions restrictions to Range Control during the non-summer training periods.

c. The USMA Engineer and Range Control will resolve restrictions in the training areas during hunting seasons.

d. In the summer non-duty hours, and in cases of emergencies, S3, CST, will act as point of contact and representative of the Commandant, USCC for woodland fires.

**5-13. Notifications.** The F&ES is responsible for ensuring that the following are notified during woodland fire emergencies:

USMA Engineer, 938-3415

Garrison Commander, 938-2022

Range Control, 938-3930/4317

Public Affairs, 938-3808

Provost Marshal, 938-2403

Commanding Officer, CFT, 938-2509/4303 (During Summer Training)

Natural Resources Office, 938-2314

**5-14. Serious Injuries and Incidents.** When an accident or serious incident occurs during the course of training, the OIC will:

a. Cease training immediately.

b. Arrange for medical personnel on site to evaluate extent of injuries and contact KACH ER for needed assistance or evacuation.

- c. Isolate the weapon and the area involved in the accident.
- d. Furnish Range Control with the following information:
  - (1) Name and organization of the individual(s) reporting the accident.
  - (2) Location of the accident.
  - (3) Time and date the accident occurred.
  - (4) How the accident occurred (include weather factors, if applicable).
  - (5) Extent of any injury to personnel.
  - (6) Action taken to evacuate the injured personnel.
  - (7) Name, grade, Social Security Account Number and organization of the injured personnel.
  - (8) Weapons or equipment damaged or involved.
  - (9) Recommendation as to whether training should be continued or suspended.
- e. Upon notification of an accident, Range Control will:
  - (1) Ensure that injured personnel have been evacuated (Range Control FREQ 50.00).
  - (2) Instruct the OIC to continue or suspend training based on the nature of the accident.
  - (3) Notify the following agencies:
    - (a) **During normal duty hours:**
      - CDR, 1-1 IN/DGC-WP, 938-2216
      - Staff Duty Officer, Camp Buckner, during Cadet Summer Training only 938-2719/3425).
      - Provost Marshal Office, 938-3333
      - PAO, 938-3808,2006
      - USMA Safety Officer, 938-3717/5964
    - (b) **After normal duty hours:**
      - 1-1 IN SDNCO, 938-8846
      - Staff Duty Officer, Camp Buckner, 938-2509/5271
      - Staff Duty Officer, USMA, x3500
- f. If an accident occurs in which a weapon is damaged or personnel are injured through malfunctioning of an ammunition item, the OIC of the range will immediately suspend all firing until representatives of the Supply and Services Division and Maintenance Division, DOL, examine the weapon and/or ammunition to determine if the situation is safe to resume firing.
- g. All accidents resulting in injury to personnel or property damage will be investigated and reported under the provisions of AR 385-40 and USMA Supplement 1 to AR 385-10.

### **5-15. Missing or Recovered Firearms**

- a. Responsibility for the security and accountability of weapons will remain with the unit commander/OIC.
- b. The commander/OIC will ensure that the following minimum actions are taken upon discovery of a missing firearm(s):
  - (1) Cease all activities and conduct an immediate thorough search.
  - (2) In the case of a possible stolen weapon, the Provost Marshal's Office (PMO) should be notified immediately.
  - (3) Immediately notify Range Control who will notify the CDR, 1-1 IN/DGC-WP. The CDR, 1-1 IN/DGC-WP will notify the DOPS and the PMO. DOPS will notify the Chief of Staff and Superintendent as deemed necessary. The PMO will submit a Serious Incident Report (SIR), if required.
  - (4) If during cadet summer training, also notify the Commander, Cadet Field Training (CFT) or the Commander, Cadet Basic Training (CBT) as appropriate. The CFT/CBT commander will notify the Commandant, who will, in turn notify the Superintendent.
- c. If a weapon is found, the following will apply:
  - (1) Notify Range Control which will then follow the procedures in para 5-3b(3) above.
  - (2) If during cadet summer training months also notify the Commander, CFT.

### **5-16. Duds**

- a. Upon discovering a known or suspected dud, take action to ensure it is not handled or moved in any manner.
- b. Mark the location and make a dud report to Range Control (Appendix G, Figure G-9).

- c. Be prepared to provide a guide for either Range Control or EOD.

### 5-17. MEDEVAC Requests

- a. The USMA does not have an organic MEDEVAC capability to support the Training Complex operations; therefore units and organizations will plan medical evacuation with their organic assets.
- b. In extreme circumstances, aerial MEDEVAC can be provided depending upon the availability of aircraft and pilots. In the best of circumstances, a UH-1 could be on station in 20 to 30 minutes; however, circumstances could cause delays of an hour or more. Both the USMA KACH and the Cornwall Hospital, Cornwall, NY, are within 30 to 40 minutes driving time from anywhere within the reservation. For this reason, sole use, dedicated organic ground transportation is required. If circumstances warrant, the MEDEVAC request (Appendix G Figure G-10) should be telephoned to Range Control during normal duty hours, and to the Post Duty Officer during non-duty hours.

## CHAPTER 6 RANGES

### 6-1. General.

- a. In 1991, the GM angle in the West Point area shifted one degree. An updated map has been published indicating this change. All units will verify the survey information before conducting live firing exercises.
- b. This chapter describes each of USMA's weapons ranges, providing details about the available facilities, operating procedures and safety factors. A matrix of weapons authorized for firing on each range is listed at figure 6-1.
- c. In this regulation the term "the firing line" refers to all the area on each range from the range tower, including the range tower, forward to the actual firing positions of weapons. During periods of firing, this area will only be occupied by firers and authorized personnel.
- d. Refueling of vehicles will occur only in the approved areas of Camp Buckner, Camp Natural Bridge, and area K, adjacent to State Highway 293. See page 2-9 this regulation for further information.
- e. Maintenance facilities are limited to a work ramp in area K, co-located with a building suitable for dispatch operations and a maintenance bay Camp Natural Bridge.

### 6-2 Range Risk Assessment

- a. On 8 SEP 95 the Superintendent, USMA, approved a Delegation of Authority (Summary Sheet) to the Garrison Commander to approve range and training area risk assessment issues. However, IAW AR 385-63, Range Safety, the Superintendent maintains the responsibility to waive risk assessment issues which reduce the Surface Danger Zones (SDZ) dimensions when terrain, artificial barriers or other factors make the smaller SDZ safe.
- b. On 6 JUN 97, the Garrison Commander approved the Range and Training Complex Risk Assessment prepared by the USMA Safety Office. Danger area changes for each range and/or training area have been noted in this chapter. A complete list of risk assessment issues is at Appendix F.
- c. The Superintendent, USMA, waived three risk assessment issues on 6 JUN 97. These changes have been incorporated into this chapter and are listed in Appendix F.
- d. Commanders and Officers in Charge (OIC's) of using units are still required to conduct their own Risk Assessment for the particular Range they will be operating. (Appendix F should be used as a base line for the using unit to assist in their Risk Assessment).

### 6-3. Range 1, Argonne

- a. **Description.** Range 1 is a hand grenade range consisting of four designated throwing bays for live hand grenades and a distance - accuracy course for practice hand grenades (Figure 6-2).
- b. **Location.** WL84838068. Access is from US Highway 9W, range gate 4.
- c. **Authorized Weapons, Range 1:** Hand grenades.
- d. **Authorized Ammunition.**
  - (1) Fragmentation hand grenades, M67.

- (2) Practice Hand grenades.
- e. Firing Points. Two concrete bays for live firing of grenades.
- f. Targets. E and F type silhouettes.
- g. Range Flag. Vicinity of parking area and latrine.
- h. Safety Limits. 150 meter radius from throwing bays.
- i. Danger Areas. Z1
- j. Telephone. 938-2464. Located on the tower.
- k. Range Guards. A range guard will be posted at the entrance to the range area (WL85038063) along firebreak one.
- l. Mess Area. None.
- m. Vehicles. The authorized parking area for military vehicles is by the access road at WL85038006.
- n. Special Instructions.
  - (1) Steel or ballistic (kevlar) helmets will be worn by all personnel within in the surface danger area.
  - (2) Gloves or ponchos will NOT be worn during live practice hand grenade throwing.
  - (3) Vehicles will not be permitted within the surface danger area when throwing of live hand grenades is in progress.
  - (4) Practice grenades will not be used in the throwing bay area.
  - (5) If a live hand grenade fails to detonate, training with live grenades will cease, personnel will be evacuated and Range Control notified immediately.

#### 6-4. Range 2, Buena Vista

- a. Description. This is a field artillery and mortar range consisting of four firing points (Figure 6-3).
- b. Location. WL83428125. Elevation 350.1 meters. Access is from New York State Highway 293, range gate 10.
- c. Authorized Weapons.
  - (1) 105mm Howitzer.
  - (2) 81mm and 4.2 inch Mortars.
- d. Authorized Ammunition.
  - (1) 105mm: HE, HC, Fuses: PD
  - (2) Mortar HE, Illumination, Practice and Training with PD or VT fuses.
- e. Targets. Armored vehicle hulls, assorted thin skinned targets, and steel tripod targets in Impact Area.
- f. Range Flag. Located at the entrance to the firing positions.
- g. Safety Limits.

Firing Position	Right Azimuth	Left Azimuth	Min RG	Max RG
105mm	3720m	3500m	2100m	3480m
14.5mm	3050m	2450m	100m	350m

Units desiring to modify the above listed safety limits will submit a surface danger zone (SDZ) overlay to Range Control for approval NLT 30 days prior to firing. The overlay will depict the safety fan and impact area to include type of round, fuse, and charge to be used and will be present during firing.

- h. Telephone. 938-3143. Located on the ASP fence.
- i. Danger Areas. Z2, Z6, E2, OP McNair
- j. Range Guards. When firing from this range ensure the following actions are taken:
  - (1) Gates 14, 17 and 19 are closed.
  - (2) 105mm only: A roadblock will be positioned on the firing line at Range 3A to halt all traffic to McNair Op. Traffic will proceed past this point only with approval of Range Control.
  - (3) Check the status of Range 12. Is it occupied or unoccupied?
- k. Power Outlets. Electrical power is available in each Fire Direction Center Bay.
- l. Mess Area. See Figure 6-3.
- m. Vehicles. See Figure 6-3.

- n. Special Instructions for 105mm Howitzer. (For mortars see special instructions in Range 12.)
- (1) Firing will only be permitted from 0700 until 2330 hours.
  - (2) The Range OIC will possess a copy and be thoroughly familiar with AR 385-63, the appropriate FM and TM for the weapon and this regulation.
  - (3) The Battalion Commander will certify both his OIC and RSO. Appendix E, FM 6-50, provides a sample test for use in the certification of safety personnel.
  - (4) The OIC will ensure each weapon's logbook reflects a current borescope, pullover test, and trunnion check in accordance with (IAW) the appropriate TM.
  - (5) The OIC will ensure safety limits are plotted on all horizontal control charts. Check charts will be developed for each primary chart when only manual computations are used. One graphical check chart will be maintained for each BCS or Bucs.
  - (6) The Fire Direction Officer (FDO) prepares the safety diagrams and verifies the plotting of the safety limits on the firing chart. The FDO ensures fire commands sent to the pieces are within the specified limits and authenticates by signature the safety diagrams of all safety officers for accuracy and completeness.
  - (7) All pieces will be laid by orienting angle. The Safety Officer will:
    - (a) Use a second, properly declinated aiming circle for West Point and check the lay circle. The circles must agree within +/- 10 mils. OICs will ensure magnetic M2 compasses are declinated for West Point before using to check safety or lay.
    - (b) Use the second (safety) circle to verify the lay of all the weapons. A tolerance of +/- 2 mils will be allowed.
    - (c) Verify the boresight of each weapon daily, before firing and after each move.
    - (d) Verify the emplacement of the collimator and the top scale deflection.
    - (e) Verify the accuracy of the range quadrant by checking it with a tested gunner's quadrant. Checks will be made at 300, 800 and 1100 mils.
    - (f) Verify the deflection, quadrant and charge for each round fired.
  - (8) The Howitzer Chief of Section performs or supervises the performance of boresighting and prefire checks and verifies the serviceability of the gunner's quadrant, on-carriage fire control equipment, and collimator IAW the appropriate TM. The Chief ensures the section fires only serviceable rounds of authorized ammunition with the proper charge and that the firing data sent to the sections is properly set on the weapons. The Chief accepts final responsibility for the safety of the weapons and crews.
  - (9) The OIC will ensure time-fuzed rounds are not fired from Range 2.
  - (10) The OIC will require the unused powder increments to be displayed for each round to be fired.
  - (11) The OIC will fire only center of sector before applying registration corrections or applying MET corrections.
  - (12) The Safety Officer will verify that firing data sent to the guns is within safety tolerances. Safety certified section directs will verify the settings on their weapons prior to firing.
  - (13) The Executive Officer is responsible for ensuring safe practices are followed in ammunition handling, laying for direction and evaluation, and in all other operations performed by the firing battery.
  - (14) When an error in firing results in rounds known or suspected of having impacted outside of the safety limits, the Range OIC will command. "REAR OF YOUR PIECE, FALL-IN." Under NO circumstances will any weapon or data, to include FDC data, be adjusted at the firing point until released by Range Control.
  - (15) Units desiring to fire mortars from Range 2 will submit a surface danger zone (SDZ) overlay to Range Control for approval NLT 30 days prior to firing. The overlay will depict the safety fan and impact area to include type round, fuze and charge to be plotting boards and will be present during firing.
  - (16) The designated powder burning area for Range 2 is located at WL82858124.
- o. Survey Information.
- (1) All units, regardless of the information in this regulation, will verify their own survey information before firing.
  - (2) **Position Area.**
    - (a) **Battery Center:** WL8341981255, Alt, 350.1 meters. Description: US Geodetic Survey (USGS) marker located in center of gun pit #3.

(b) **Orienting Station:** WL8341081268, Alt, 242 meters. Description: USGS SCP marker located 20 meters behind berm separating gun pits #3 and #4; further located two feet off the west shoulder of blacktop road.

© **Trig Station (PELLD):** E 583401.38, N 4.581215.70, Alt. 244.8m.

(d) Trig Marker (T-6): WL8029783185 Azimuth OS to T-6: 5362.221m, Azimuth Pelli to T-6: 5376.0 mils Description: Orange Triangle marker located below treeline in "V" of mountain 900 meters in front of battery position.

(3) **Observation Area.**

(a) **McNair Observation Post** (see Fig 7-3a): WL8203479507 Alt 367.6 meters.

Az to Holeman (Center Trig Marker): 3155 mils.

Az to Tower 5 (Left Marker): 2413 mils.

Az to Tower 4 (Right Marker): 3431 mils.

Az to Holeman from each bay:

A: 3141 mils B: 3143 mils BN: 3155mils C: 3168mils

(b) OP #5: WL80797907 Alt. 247 meters AZ to Holeman: 2275 mils

© **OP #5A:** WL80707898 Alt. 273 meters

(4) **Survey Control Points.**

(a) **JENS:** E.580996.32 N.4577961.32 Alt 235.0 meters.

**Description:** USGS brass disc in large flat rock; Letters JENS painted in orange on rock surface; Declination Station, Range 6.

Az to Tower 5 (Left Marker): 1064 mils

Az to Holeman (Center Marker): 1521 mils

Az to Tower 4 (Right Marker): 1967 mils

(b) **Eagle:** E.81685 N.78840 Alt. 295.8

**Description:** 105mm Canister surrounded by three red stakes; located in open area along finger west of Impact Area.

Az to Holeman: 2711 mils

Az to McNair Op: 0491 mils

## 6-5 Range 3, New Orleans

a. Description. This is a Combat Pistol Qualification Course with 12 firing lanes. Completion of this range is scheduled for FY 00.

b. Location. WL82438061. Access is from NY State Highway 293.

c. Authorized Weapons. Hand Guns only (up to .45 cal), no automatic or "machine" weapons.

d. Authorized Ammunition. Standard ball, up to .45 cal.

e. Firing Points.

<u>Points</u>	<u>Meters</u>
12	10,13,16,17, 23,27,31

f. Targets. 7 E-type silhouettes with electrically activated, target-elevating mechanisms on each lane.

g. Range Flag. Vicinity of Range Gate

h. Right and left limits of fire will be posted downrange.

i. Danger Areas: Z3

j. Range Gate Guards. Posted at Gate 11.

k. Power Outlets. In each building, less latrines.

l. Mess Area. Located behind the bleachers.

m. Vehicles.

(1) The authorized parking area for military vehicles is the lot between Ranges 4 and 5.

(2) The authorized parking area for privately owned vehicles is located at WL82398083.

n. Public address (PA) system available from Range Control.

## 6-6 Range 4, Inchon. (Figure 6-4)



a. Description. This is a 25 meter zeroing range with 65 points for rifle and pistol and a M16 night familiarization range with 39 points.

b. Location. WL82438061. Access is from NY State Highway 293.

c. Authorized Weapons. Weapons firing standard 5.56mm (to include SAWs) or lesser caliber ammunition or weapons requiring a surface danger zone less than 3000 meters.

d. Authorized Ammunition. Standard ball; tracer firing is prohibited during periods of increased danger of fire.

e. Firing Points.

<b>Firing Points</b>	<b>(Meters)</b>	<b>Right</b>	<b>Limits</b>	<b>Left</b>
63 daylight zero	25	WL8247180555		WL8255380732
39 night familiarization	50			

f. Targets. Zero target frames at 25 meters. M31 mounted E-type silhouettes at 50 meters for night qualification.

g. Range Flag. Vicinity of Range Gate.

h. Safety Limits. Right and left limits of fire markers are posted downrange.

i. Danger Areas: - Z2, Z3, D2, D3, D5 (Artillery Firing on Range 2 can occur concurrently when this range (M16A2) is operational because firing points are outside of SDZ).

j. Telephone 938-3530. Located on range tower.

k. Range Guards and Range Gates. Units firing on this range will post guards at:

(1) Gate 11.

(2) gates 1 and 3 must be closed but no guard is required during firing:

l. Power Outlets. In each building except the latrines.

m. Mess Area. Behind Range 5.

n. Vehicles.

(1) The authorized parking area for military vehicles is the lot between ranges 4 and 5.

(2) The authorized parking area for privately owned vehicles is located at WL82398083.

o. Public address (PA) system available from Range Control.

p. See FM 23-9, chapter 5 for night firing information.

q. Special Instructions. None.

## 6-7 Range 5, Gettysburg

a. Description. This is a Combination Modified Record Fire (MRF), Automated Field Fire (AFF), and Multi-purpose Machine Gun Range (MPMG). This Range consists of 8 lanes of MRF, 16 lanes of AFF, and 6 partial lanes of MPMG.

b. Location. WL82438061. Access is from NY State Highway 293.

c. Authorized Weapons. Weapons firing standard 7.62mm or lesser caliber ammunition. Machine Guns (M60 or M240G) are authorized only when using the MPMG. Machine Guns will not be fired on the MRF or AFF. Traversing and Elevation (T&E) mechanism must be used on Machine Guns when using this range.

d. Authorized Ammunition. Standard ball, tracer firing is prohibited during periods of increased danger of fire.

d. Firing Points.

<b>Range</b>	<b>Firing Points</b>	<b>Meters</b>
MRF	8	50-300
AFF	16	75,175,300

MPMG

6

5 lanes to 600 meters,  
1 lane to 450 meters

- f. Targets. (MRF and AFF) E and F type silhouettes on M64 mechanisms.  
(MPMG) E type silhouettes
- g. Range Flag. Vicinity of Range gate.
- h. Safety Limits. Right and left limits of fire are posted downrange.
- i. Danger Areas: Z3, Range 6 (OP McNair) (The Superintendent, USMA, approved a waiver on 6 June 1997 to keep Area E2 and Mine Torne Road open when Range 5 is firing because surrounding terrain masks these areas from ricochet.)
- j. Range Guards and Range Gates. Units firing on this range will post guards at:
  - (1) Gate 11.
  - (2) No guard is necessary at the intersection of the firing line on Range 5 and the road to McNair Observation Point (OP). However, the range OIC must block the road and permit traffic through the intersection only upon the approval of Range Control and a cease fire.
  - (3) Gate 19, Range 5, must be closed but no guard is required during firing (unless another unit is training in E2).
- k. Power outlets. In each building except the latrines.
- l. Mess Area. Behind the bleachers on Range 5.
- m. Vehicles.
  - (1) The authorized parking area for military vehicles is in the lot between Ranges 4 and 5.
  - (2) The authorized parking area for privately owned vehicles is located at WL 82398083.
- n. Public address (PA) system available from Range Control.
- o. See FM 23-9, Chapter 5 for night firing information.
- p. Special instructions. Ensure there are no personnel occupying Range 6 (OP McNair) before firing commences. If personnel are present at OP McNair, they must be inside bunker. Coordinate times with Range Control and OIC of Range 6 (OP McNair) to allow entering and exiting from bunker.

#### 6-8. Range 6, San Juan Hill

- a. Description. This is a mortar range consisting of 6 firing points.
- b. Location. WL82037950. Access is from NY State Highway 293
- c. Authorized Weapons. 60mm, 81mm mortar
- d. Authorized Ammunition. HE, Illumination, practice and training PD/VT fuzes for 60 and 81mm mortar.
- e. Firing Points. All weapons must be located within 100 meters of WL82037950.
- f. Targets. Vehicle hulls in the impact area.
- g. Range flag. Vicinity of range gate.
- h. Safety Limits.

<u>Min Range</u>	<u>Max Range</u>	<u>Right Limit</u>	<u>Left Limit</u>
1000 m	1400 m	3640 mils	3160 mils

- i. Danger Areas: Z6
- j. Telephone. 938-3639. Located inside bunker.
- k. Range Guards. A Range guard will be posted at Gate 11.
- l. Mess Area. None
- m. Vehicles.
  - (1) The authorized parking area for military vehicles is along the road leading to OP McNair.
  - (2) The authorized parking area for privately owned vehicles is located at WL823980983.
- n. Special Instructions. Ensure Range 5 is not firing before occupying this range. Coordinate with Range Control and OIC of Range 5 for times to allow entering and exiting of bunker. (If occupied while Range 5 is firing).

**6-9. Range 7, Saratoga** (Figure 6-5)

- a. Description. This range is used for claymores and anti-tank weapons.
- b. Location. WL81637991. Access is from NY State Highway 293.
- c. Authorized Weapons. 66mm Light Anti-tank Weapon, M72 LAW; M136 (AT4), M18 Claymore Mine, MK 19, SMAW (83mm)
- d. Authorized Ammunition. All M72 and M67 ammunition; 83mm HE (SMAW), 40mm MK19 (less high explosive) when used with tripod and T&E mechanism; tracer upon approval of Range Control.
- e. Firing Points.

<b>Points</b>	<b>Right</b>	<b>Left</b>
6	WL8167979891	WL8176679915

- f. Targets. Vehicle hulls in impact area.
- g. Range Flag. Behind Range 7, upon entrance to the range.
- h. Safety Limits. Right and left limits are indicated by the panel markers posted downrange.
- i. Danger Areas: Z4, D1, and OP McNair
- j. Telephone: 938-6038. (Located in tower.)
- k. Range Guards. Posted at Gate 12. Ensure range gates 1 and 19 are closed when using Range 7.
- l. Power Outlets. In each building less the latrines.
- m. Mess Area. See figure 6-5.
- n. Vehicles. See figure 6-5.
- o. Special Instructions.
- p. PA System. Available from Range Control.

**6-10. Range 8, Richmond** (figure 6-5)

- a. Description. This range is used for M79/203 Grenade launchers and Mk 19.
- b. Location. WL81637991. Access is from NY State Highway 293.
- c. Authorized Weapons. 40mm grenade launcher, M203, M79, Mk19.
- d. Authorized Ammunition. All 40 mm rounds less White Phosphorus, M385 practice rounds for Mk19.
- e. Firing Points.

<b>Points</b>	<b>Right</b>	<b>Left</b>
6	WL8156979840	WL8165278181

- f. Targets. Vehicle hulls in impact area.
- g. Range flag. Behind Range 8, upon entrance to range.
- h. Safety Limits. Right and left limits are indicated by the panel markers posted downrange.
- i. Danger Areas: Z4
- j. Telephone. 938-2861 Located on pole next to tower.
- k. Range Guards. Posted at Gate 12
- l. Power Outlets. In each building, less the latrines
- m. Mess area. See figure 6-5.
- n. Vehicles. See figure 6-5.
- o. Special Instructions.
  - (1) A minimum distance of 130 meters will be maintained between the impact area and the firing line when firing the grenade launcher.
  - (2) Firing with the M203 or M79 Grenade Launcher will be suspended when ground winds are in excess of 30 mph.
  - (3) Move down range only upon approval of Range Control.
- p. PA system. Available from Range Control

**6-11. Range 9, Stony Point** (figure 6-5) (See Appendix E for procedures for using this Range)

a. Description. The recreational pistol range is for recreational use by the Corps of Cadets, USMA staff and faculty, and other authorized military personnel and their guests. This range is for target practice with privately owned weapons and for use by the USCC Combat Pistol Team.

b. Location. Access is from NY State Highway 293. WL 81657971.

c. Authorized Weapons. Hand Guns only, no automatic or “machine” weapons.

d. Authorized Ammunition. Only ammunition typically fired in the above authorized weapons is permitted. No rifle ammunition of any kind will be fired on this range. Maximum range of any ammunition can not exceed 2,200 meters (7,218 feet).

e. Firing points. 24

f. Targets. No target material is provided for this range. There are frames at 25 and 50 meters. Shooters will provide all targets and backing material. Only paper and metal silhouettes may be used.

g. Range flag. Located in the vicinity of the range gate.

h. Safety. Right and left limits are indicated by the panel markers posted downrange.

(1) Under no circumstances will anyone move forward (east) of the target line. This area is a permanent dud area and is extremely dangerous.

(2) No weapon will be loaded unless it is on the firing line.

(3) Clearing of weapons is an individual responsibility.

(4) Weapons will be pointed in a safe direction and will be carried in a safe manner at all times.

(5) No firing will occur before sunrise or after sundown on this range.

(6) Prior to signing in, all users will have eye and hearing protection. Eye and hearing protection will be used during all firing.

(7) No medical coverage is required. (See Chapter 2, para 2-8, Medical Requirements for recommended Medical Coverage).

(8) No smoking is allowed on the range.

i. Danger areas. Z4, OP McNair

j. Special instructions. See Appendix E for additional information.

## **6-12. Range 10, Bastogne**

a. Description. The USMA Skeet and Trap Range is for recreational use by the Corps of Cadets, USMA staff and faculty, and other authorized military personnel and their guests. The Skeet and Trap range is primarily for use by the USCC Skeet and Trap Team, but is also available for other authorized users.

b. Location. Access is from NY State Highway 293. WL 81617957

c. Authorized Weapons. .410 to 12 gauge shotguns only.

d. Authorized Ammunition. Light target loads, #7.5 to #9.

e. Firing points. At designated, regulation skeet and trap stations only.

f. Targets. Personnel using this range will provide their own targets.

g. Range flag. Located in the vicinity of the Range gate.

h. Safety. Right and left limits are indicated by the panel markers posted downrange.

(1) Under no circumstances will anyone move forward (east) of the target line. This area is a permanent dud area and is of extreme danger.

(2) No weapon will be loaded unless it is on the firing line or at a skeet and trap station.

(3) Clearing of weapons is an individual responsibility.

(4) Weapons will be pointed in a safe direction and will be carried in a safe manner at all times.

(5) The skeet and trap range will be lighted, and may be used after sundown.

(6) Prior to signing in, all users will have eye and hearing protection. Eye and hearing protection will be used during all firing.

(7) No medical personnel are required. (See Chapter 2, para 2-8, Medical Requirements for Recommended Medical Coverage).

(8) No smoking is allowed on the range.

i. Danger areas. Z4, OP McNair.

j. Special instructions. See Appendix E for additional information.

## **6-13. Range 11, Normandy**

a. Description. This is a 16 lane Remote Engagement Target System (RETS) record fire range. (Figure 6-6) This range is computer-operated and requires Range Control personnel to operate. This range is equipped with muzzle flash simulators and may be used for night firing. This range currently operates with four programs (scenarios): M-16 record fire (qualification), mission oriented protective posture (MOPP) familiarization, MOPP qualification and night fire familiarization.

b. Location: WL80867897. Access is from NY State Highway 293.

c. Authorized Weapons. Weapons firing standard 5.56 mm or lesser caliber ammunition or weapons having a surface danger zone less than 3000 meters excluding shotguns. Only semi-automatic fire is authorized.

d. Authorized Ammunition. Standard ball; tracer only upon approval of Range Control.

e. Firing Points.

<b>Range</b>	<b>Points</b>	<b>(Meters)</b>	<b>Right</b>	<b>Left</b>
5	16	50, 75, 100, 150 200, 250, 300	WL8090078780	WL8086979280

f. Targets. E and F type silhouettes on M64 mechanisms.

g. Range Flag. Located at Gate 13.

h. Safety Limits. Right and left limits of fire are posted downrange.

i. Danger Areas: Z5, The Superintendent, USMA, approved a waiver on 6 JUN 97. to keep areas D1 and D3 open when Range 11 is operational because the surrounding terrain significantly masks potential ricochet effects.

j. Telephone: 938-4243. Located in tower and ammo building.

k. Range Guards. Posted at Gates 13 and 14. Ensure Gates 1 and 3 are closed.

l. Power Outlets. In each building, less latrines.

m. Mess Area. Directly behind the northern and southern portions of the firing line.

n. Vehicles.

(1) Authorized military parking area is behind the range tower.

(2) Authorized privately owned vehicle parking is directly inside Gate 13.

(3) Vehicles will not be permitted south of Gate 14 when artillery is being fired from Range 2 or the M60 machine gun is being fired on Range 5.

o. Special Instructions.

(1) Range Control will provide a computer operator for this computer run range. Using unit will still have to provide an OIC, RSO and four ARSOs to successfully operate the range. The range control computer operator will not give tower commands. Tower commands can be found in Appendix D, FM 23-9.

(2) For a unit to successfully use this range they must zero their weapons first. This can be done on Range 4.

(3) For planning purposes, a well organized unit can plan on qualifying approximately 45 soldiers per hour. This includes a practice table. The qualification program takes less than 4 minutes to run. The critical factor is how well a range OIC can move soldiers on and off the firing line, and how well he knows his tower commands.

(4) It is critical the unit using this range is totally familiar with the provisions and directives of FM 23-9, dated July 1989. This range is designed in conjunction with that FM.

(5) This range supplies the user with an automated print out of hits and misses (no scorer is needed, but coaches are) by lane number only. As a result, it is imperative that the user know which soldier was on which lane, in which order.

(6) Target detection is a challenge on this range. Soldiers should have prior training in target detection before using this range.

(7) Movement is not permitted forward of the firing line.

(8) When firing is conducted on this range, personnel at McNair OP will be inside the bunker. The OIC at the OP will coordinate with Range Control to suspend firing to permit movement to and from the OP (paragraph 12-6, Chapter 12).

(9) All firing will be within respective lanes. NO cross firing is permitted.

(10) There is a heated 30 man classroom on this range.

p. Public Address System. Available from Range Control.

q. Weaponeer Training Device.

(1) A Weaponeer training device is located in the classroom building on Range 11. The device may be scheduled IAW the procedures in Chapter 2.

(2) The climate control (air conditioning unit) thermostat will be set to best facilitate the operation of the Weaponeer and will not be adjusted without the permission of the NCOIC of Range Control.

(3) Malfunctions of the Weaponeer will be reported to Range Control personnel.

#### **6-14. Range 12, Basra (Figure 6-7).**

a. Description. This is a mortar and MK19 range with six firing positions.

b. Location. WL8098978024. Access is from Mine Torne Road or Range 11.

c. Authorized Weapons. 60mm, 81mm mortar, and MK19.

d. Authorized Ammunition. HE, Illumination, practice and training PD/VT fuzes for 60mm and 81mm mortar. Only M385 practice (aluminum) rounds may be fired from the MK19.

e. Firing Points. All weapons must be located within 100 meters of WL8098978024.

f. Target. Vehicle hulls in the impact area.

g. Range Flag. Flag pole is located beside Gate 17.

h. Safety Limits.

<b>Minimum Range</b>	<b>Maximum Range</b>	<b>Right Limit</b>	<b>Left Limit</b>
575 Meters	1508 Meters	1955 Mils	975 Mils

i. Danger Areas. Z6 and E2. Road between Ranges 11 & 12.

j. Telephone. 938-4356. Phone is located in tower.

k. Range Guards. A range guard will be posted at Gates 14 and 16.

l. Mess Area. To the right of the Control tower.

m. Vehicles. The designated parking area for military vehicles is on the road leading into the range from Mine Torne Road. Privately owned vehicles (POVs) should park on Mine Torne Road below Stilwell Dam.

n. Special Instructions.

(1) Firing will only be permitted from 0700 until 2330 hours.

(2) The Range OIC will possess a copy of and be thoroughly familiar with AR 385-63, FM 23-85 (60mm) or FM 23-90 (81mm), FM 23-73 (MK19), the appropriate TM for the weapon, and this regulation.

(3) The Battalion Commander will provide to Range Control, written certification of training for the Range OIC, the RSO and the certification of his squad leaders.

(4) The OIC will ensure that the weapon logbooks reflect a current borescope and pullover test in accordance with the appropriate TM.

(5) The OIC will ensure that weapon prefire checks and boresighting are accomplished and that the weapon is serviceable in accordance with the appropriate TM.

(6) The Range Safety Officer (RSO) is responsible for ensuring that safe practices are used throughout the range occupation and in particular, ammunition handling, weapons laying and firing procedures.

(7) The RSO will supervise the unloading and uncrating of ammunition.

(8) The RSO will inspect each projectile for faults in casting or welding, and ensure the fuze rotating bands, ignition cartridge and striker nuts are firmly in place and that all PD fuzes are on super quick. Rounds must be clean and free from burrs.

(9) The RSO will possess correct range safety cards for all firing exercises.

(10) The RSO will verify the settings on each weapon prior to firing.

(11) The RSO will supervise the placement of safety stakes to the left and right limits.

(12) Each mortar will have its sights calibrated while in position.

(13) The OIC of the range will check the lay of the section by using a properly declinated aiming circle at West Point. The RSO will also check the lay of the section by using a second aiming circle.

Referred readings will be taken between the two aiming circles and they must agree within +/- 10 mils; the safety circle, also declinated at West Point, must agree within 2 mils with each mortar.

(14) OIC will ensure that safety limits are plotted on all plotting charts. A minimum of three plotting boards will be used to ensure safe gun data.

(15) Steel or ballistic (kevlar) helmets will be worn during firing.

(16) Qualified noncommissioned officers will be positioned at each weapon to assist the RSO during firing exercises. Mortar squad leaders may serve in this position.

(17) The OIC will ensure that unused powder increments are displayed for each round to be fired.

(18) Misfire procedures will be performed IAW current Field Manuals or MOS IIC Skill manuals.

(19) When an error in firing results in rounds known or suspected of having impacted outside of the safety 7-14 limits, the OIC of the firing unit will command, "TO THE REAR OF YOUR TUBE, FALL-IN." Under NO circumstances will any weapon or data, to include FDC data, be adjusted until cleared by Range Control. The firing unit will remain at the firing point until released by Range Control.

(20) Units desiring to fire mortars from Range 12 will submit a Surface Danger Zone (SDZ) overlay to Range Control for approval NLT 30 days prior to firing. The overlay will depict the safety fan and impact area to include type round, fuze and charge to be used. The approved overlay will be used to establish the M16 plotting boards and will be present during firing.

(21) The 760th EOD unit may use the downrange position of Range 12 for emergency disposal operations upon the notification of Range Control, or by regular scheduling of the range for this purpose.

WEAPONS	RANGE												
	1	2	3	4	5	6	7	8	9	10	11	12	13
MK-19								X				X*	
M16A1/2				X	X						X		
M60/SAW					X								
M1/M14					X								
SHOTGUN										X			
M203/79								X					
PISTOL			X	X	X				X				
CLAYMORE							X						
GRENADE	X												
AT4/LAW							X						
SMAW							X						
81MM		X				X						X	
60MM		X				X						X	
4.2 INCH		X											
105MM HOW		X											
106RR													
DEMOLITION												X	X(2)
BANGALORE												X	X(3)
TRAINING AREAS	Z1	Z2,Z	Z3	Z2,Z	Z3	OP	Z4	D1, Z4	Z4	Z4	Z5	Z6	see
CLOSED BY		3		3	see	McN			OP	OP		E2	note
FIRING		Z6,E		D2,	note1	.			McN	McN			2&3
(DANGER AREAS)		2		D3,		Rng'			.	.			
		D4		D5		s							
						4,7,8							
						,							
						9,10							

\* Only M385 practice rounds (Aluminum Slugs) may be fired from the MK19 on Range 12

\*\* Danger Areas determined by applying SDZ's for weapons to ranges during the Range Risk Assessment conducted 6 JUN 97.

Note 1. Firing not affected on other ranges. No movement on firing line of Range 4 during pistol and shotgun firing.

#### TRAINING AREAS:

NORTH	EAST	SOUTH	CENTER	NORTHEAST	SOUTHWEST
F,G,J1,J2,J3,J4	D1,D2,D3,D4,	T1,T2,U1,U2	K,W,V,H	L,Q,S,N,I	R,O,A1,A2,A3
J5,J6	D5,E1,E2	X,Y,CS		B,M	P,C,LFDZ

#### OTHER FACILITIES

Leadership Reaction Course (K)  
 Confidence Course (K)  
 Obstacle Course (Buckner)  
 Water Training Site (Buckner)  
 Weaponeer (Range 5)

Bayonet Assault Course (B)  
 Land Navigation Courses (C, P)  
 Rappel/Mountaineering Site (A1)  
 Engineer Equipment Training (E2)  
 NBC Site (P)

Figure 6-1



## CHAPTER 7 RANGE GATE GUARDS

### 7-1. Command Responsibility

- a. The Range OIC will ensure gate guards are posted, properly briefed on their duties and the training in progress, and perform their duties IAW this regulation.
- b. The Range OIC will ensure that access gate(s) are locked upon leaving the range.

### 7-2. Gate Guard Duties. Personnel acting as gate guards will:

- a. Be knowledgeable of their responsibilities listed below and the type of training in progress.
- b. Greet all visitors, give a short explanation of training in progress, identify the OIC's location, and warn of live firing as appropriate. They will direct visitors to a specific location where the visitors will be met by the OIC. When entrance to the range is not authorized, the guard will advise visitors to wait or to use another route.
- c. Maintain continuous communications with the OIC. The arrival of visitors will be reported immediately to the OIC. If the guard is unsure whether a visitor is authorized on the range, the guard will contact the OIC for clarification before granting entrance.
- d. Remain at the gate shack or gate if no shack is present. Maintain the gate across the road, unlocked, while the range is hot.
- e. Present a neat, alert, military appearance, exercising proper military courtesies.
- f. Permit Range Control personnel access to all ranges and training areas while performing their duties.
- g. Maintain a log of all VIPs and other visitors to the range.
- i. Understand general guard rules.

## CHAPTER 8 MINE TORNE ROAD CLOSINGS

### Section I

**8-1. General** When operations require the closing of Mine Torne Road, the times and dates of closing will be disseminated to all USMA personnel and to the residents of the local communities frequently traveling those routes by use of the USMA Daily Bulletin. On Saturdays when home football games are scheduled, no firing will be permitted that closes Mine Torne Road.

### 8-2. Procedures.

- a. Notification signs for the closing of Mine Torne Road are posted at the intersection of US Highway 293 and Mine Torne Road (WL799788) and at the intersection of "Old 9W" and Mine Torne Road (WL844758).
- b. Local newspapers will be notified by the PAO of the scheduled closings for Mine Torne Road to permit publication of this information. The PAO will also notify other local news media, if appropriate.
- c. USMA Bulletin notices will be published announcing the following:
  - (1) Closing of Mine Torne Road.
  - (2) Fishermen: The following area is OFF LIMITS (time and dates of firing): Popolopen Brook, from Stilwell Lake Dam to Gate 19 on Mine Torne Road.
  - (3) Other CRD activities may be closed from the period 15 May to 15 August (Cadet Summer Training) if these activities interfere with training.

## Section II Responsibilities

### 8-3. CDR, 1/1 IN/DGC-WP will:

- a. Ensure scheduled closings of Mine Torne Road are published in the USMA Post Bulletin.
- b. Notify PAO of the schedule of road and facility closures.
- c. Notify personnel at West Point using Organizational Email and all Email Bulletin Boards.

**8-4. NCOIC Range Control** will brief the OICs for Ranges affected on the procedures for posting road guards and emplacing barriers closing Mine Torne Road and the posting of notification signs.

**8-5. PAO** will notify local news media of the scheduled closings of Mine Torne Road as reported in the USMA Post Bulletin.

## Section III

**8-6 Mine Torne Road.** This road may be closed during artillery firing from Range 2 (See para 7-3). Commo with the road guard is by class B commercial land line. A phone is available through Range Control.

- a. Gate 15 Guard. Allow all vehicles approaching from the east to pass. Report all such vehicles to the Range OIC by bumper number.
- b. Gate 23.
  - (1) Ensure that the gate is locked at all times. Range Control will check before firing begins and then periodically during firing.
  - (2) Allow no traffic to pass to the east or west.
- c. Range OIC. Consolidate report of Gate Guards on vehicular traffic and forward to Range Control.

## CHAPTER 9 AIRSPACE RESTRICTIONS

**9-1. General.** The area designated as paragraph 9-2 has been designated as a joint use restricted area, R-5206, during designated periods of the year by the Federal Aviation Administration (FAA). An airspace restriction has been designated up to 5000 feet mean sea level (MSL) in order to allow for high angle fire between 1 July and 31 August. This airspace restriction can be activated at any other time during the year upon 48 hours notification to the FAA by notice to airmen (NOTAM) sent by Range Control. For non high-angle fire, the area designated as paragraph 9-2 has been designated as a Controlled Firing Area (CFA) in which ordnance firing is conducted under conditions controlled by the using agency. As a part of this responsibility, the using agency must ensure that firing will cease when aircraft traverse the controlled area. OIC's and RSO's of live-fire ranges will ensure compliance with applicable safety procedures stipulated by the FAA in the agreement that established the area. These safety procedures will include some or all of the safety measures outlined in AR 385-63 para 2-2e(1-8).

### 9-2. Location and Description.

. BEGINNING AT LATITUDE 41 DEGREES, 23 MINUTES, 8 SECONDS NORTH, LONGITUDE 73 DEGREES, 59 MINUTES, 59 SECONDS WEST; TO LATITUDE 41 DEGREES, 23 MINUTES, 8 SECONDS NORTH, LONGITUDE 73 DEGREES, 59 MINUTES, 41 SECONDS WEST; THENCE ALONG SOUTH SIDE OF US HIGHWAY 9W TO LATITUDE 41 DEGREES, 22 MINUTES, 32 SECONDS NORTH, LONGITUDE 73 DEGREES, 58 MINUTES, 57 SECONDS WEST; TO LATITUDE 41 DEGREES, 22 MINUTES, 18 SECONDS NORTH, LONGITUDE 73 DEGREES, 58 MINUTES, 57 SECONDS WEST; TO LATITUDE 41 DEGREES, 20 MINUTES, 04 SECONDS NORTH, LONGITUDE 74 DEGREES, 00 MINUTES, 41 SECONDS WEST; THENCE ALONG

NORTH SIDE OF MINE TORNE ROAD TO LATITUDE 41 DEGREES, 21 MINUTES, 24 NORTH, LONGITUDE 74 DEGREES, 02 MINUTES, 37 SECONDS WEST; THENCE ALONG EAST SIDE OF NEW YORK STATE HIGHWAY 293 TO THE POINT OF BEGINNING.

. AREA - APPROXIMATELY SIX SQUARE MILES.

### 9-3. Operating Procedures

- a. The restricted airspace will be activated prior to firing any weapon under conditions where the maximum ordinate will exceed 45 meters (150 feet) above the surface. Range Control is responsible for notification of the New York Terminal Approach Control (FAA) at least one (1) hour prior to the use of the range.
- b. The report will consist of the following elements:
  - (1) Restricted Area R-5206, West Point, New York.
  - (2) Commence firing time and date.
  - (3) Maximum ordinate (5,000' accepted by Federal Aviation Administration (FAA)).
  - (4) Estimated Termination of firing time.
- c. Range Control will notify New York Flight Service Station one hour before and immediately after termination of firing on the range with actual cease fire time.
- d. NOTAM (Notice to Airmen) Requirements:
  - (1) NOTAMs are required for the use of R-5206 from 1 September through 30 June, or if the maximum ordinate exceeds 45 meters.
  - (2) The using unit commander is responsible for requesting the publication of NOTAMs through the CDR, 1-1 IN/DGC-WP. Requests will follow the format in Figure 9-1. Notification must be made in sufficient time to permit relay of the NOTAM not later than 48 hours prior to the activation of the restricted area. The Range Control NCOIC will contact New York Terminal Approach Control (TRACON) at commercial extension (516) 683-2981/2982 to obtain initial approval. This will be followed by a written request with a copy furnished the New York Flight Service Station (516 471-7394), Long Island Mc Arthur Airport, 150 Arrival Ave, Ronkonkoma, NY, 11779.
  - (3) The NOTAM will contain the following information:
    - (a) Restricted Area R-5206, West Point, New York.
    - (b) Date of intended use.
    - (c) Commence firing time.
    - (d) Maximum ordinate.
    - (e) Estimated termination of firing time.
- e. The Range OIC is responsible for submitting a Daily Utilization Summary for the restricted area firing activities to Range Control. This report is a consolidated daily summary of all artillery/mortar firing for each day during which firing is conducted. The format for this report is shown at Figure 10-2 of this regulation.

### 9-4. Safety Considerations

- a. Aircraft will be allowed to enter the Restricted Area only after receiving permission from CDR, 1-1 IN/DGC-WP, through normal request procedures for range and training area utilization. The request form must be submitted in writing three (3) days prior to the scheduled activity in the format at figure 10-1.
- b. In all cases, Air Force Regulations 60-16 and 55-33 and the Commander, 2nd Aviation Detachment will be consulted with and directives followed when planning and utilizing aircraft at USMA.
- c. A Forward Air Controller (FAC) will be present on the ground, co-located with the supported unit in all instances. The FAC will maintain radio contact with the aircraft and Range Control, during any air support mission.
- d. Concern for the safety and well being of the local civilian populace requires that proper notification, through the PAO, be accomplished for all low level or nap of the earth (NOE) missions conducted at the USMA. Proper and timely notification of the CDR, 1-1 IN/DGC-WP, will ensure that this occurs. Avoid flying over the USMA housing. Flight plans should include this constraint.

e. Violations of the restricted airspace will immediately constitute a cease fire and will be reported by telephone or radio to Range Control, x3930/4317. Range Control will forward the report to the CDR, 1-1 IN/DGC-WP and to the US Air Force (USAF) Liaison Officer. The report will include the following:

- (1) Name/rank of person(s) reporting the violation.
- (2) Date and time.
- (3) Description of the aircraft.
- (4) Serial number, if possible (large number on fuselage).
- (5) Estimated altitude and direction of flight.
- (6) Maneuvers of the aircraft.
- (7) Activities being conducted in the area at the time and the effect of the aircraft intrusion on those activities.

f. During cadet summer training, the USCC DMI aviation branch representative is the proponent for air missions. They will advise and assist the S3, 1-1 IN/DPTM in aviation mission management. The USMA AFLO will assist as needed.

AIR SPACE UTILIZATION REQUEST  
Restricted Area R-5206, West Point, New York

(to be filed by using commander)

\_\_\_\_\_  
Date

Date of intended use: \_\_\_\_\_

Time from: \_\_\_\_\_

Time to: \_\_\_\_\_

Officer in charge: \_\_\_\_\_

Range: \_\_\_\_\_

Type weapon/Ordnance to be fired: \_\_\_\_\_

Signature of OIC: \_\_\_\_\_

Typed/printed name and rank: \_\_\_\_\_

Organization: \_\_\_\_\_

Telephone number: \_\_\_\_\_

Figure 9-1, Air Space Utilization Report

## DAILY AIR SPACE UTILIZATION SUMMARY

R-5206

West Point, New York 10996

(Submitted Daily by Range Control)

\_\_\_\_\_  
Date

Unit: \_\_\_\_\_

Time scheduled to open: \_\_\_\_\_ Time scheduled to close: \_\_\_\_\_

Actual opening time: \_\_\_\_\_ Actual closing time: \_\_\_\_\_

Total number of hours area utilized: \_\_\_\_\_  
(Accurate to tenths of an hour)

## Activities:

## a. Aircraft operations:

Type: \_\_\_\_\_

Maximum altitude and flight level: \_\_\_\_\_

Brief description of mission: \_\_\_\_\_

## b. Artillery, mortar and missile:

Types: \_\_\_\_\_

Maximum Ordinate: \_\_\_\_\_

Brief Description of mission: \_\_\_\_\_

## c. Electronic Monitoring Devices:

Types of equipment: \_\_\_\_\_

Brief description of mission: \_\_\_\_\_

Figure 9-2, Daily Airspace Utilization Summary

## CHAPTER 10

### TRAINING AREAS AND SPECIAL FACILITIES

**10-1. General.** The Training Areas at the USMA are located on wooded, mountainous terrain which generally restrict vehicle movement to the improved roads and trails located throughout the reservation. These training areas are excellent for dismounted tactical training and navigation exercises. The iron ore in the mountains does interfere with radio transmissions, magnetic circle and compass checks for lay and safety and should be considered by activities in planning training.

#### 10-2. Ammunition

- a. The use of blanks, simulators, and pyrotechnics is authorized when properly supervised, and when fire hazard conditions permit.
- b. NO live firing of weapons or use of explosives will be permitted in any training area without the written approval of the S3, 1-1 IN/DPTM.

**10-3. Bivouac Sites.** Each Training Area is considered a bivouac site if a latrine is present (Appendix C). Units may also bivouac behind the firing line on ranges. When requesting permission to bivouac on ranges, clearly differentiate between firing times and occupation times.

**10-4. Safety.** In addition to the safety provisions found in the regulation and other applicable publications, the unit commander or OIC will ensure all personnel are oriented on their location with respect to the impact and danger areas in order to prevent inadvertent entry. During inclement weather, the various obstacle/confidence type courses may be deemed unsafe. The using unit of these facilities assumes responsibility for their use during these periods. OICs should conduct their own Risk Assessment before using these courses.

**10-5. McNair OP.** McNair OP is located at survey point WL82037950, at an altitude of 367.6 meters and consists of a concrete bunker which can be used for the observation of fire. Other OPs may be selected; however, they must be located outside the active danger fan and require the written approval of the CDR, 1-1 IN/DGC-WP. The following procedures will be used to ensure the safe and timely movement of personnel to and from McNair OP.

- a. Range Control will be contacted and approval obtained, prior to any movement either to or from McNair OP.
- b. Range Control will contact the OIC's of the following ranges to suspend fire prior to any movement to or from OP McNair.
  - (1) Range 2.
  - (2) Range 4.
  - (3) Range 5.
  - (4) Range 7.
  - (5) Range 8.
  - (6) Range 11.
- c. When range 2 is using McNair OP, Range Control will determine how much longer a range needs to finish firing/complete a table. If the range needs less than 15 minutes, the OIC will be instructed to finish firing and then order a "CEASE FIRE." If more than 15 minutes is required, the range OIC will be directed to "CEASE FIRE." Both the range(s) involved and the personnel in McNair OP will take instructions from Range Control prior to any movement of personnel or the resumption of firing.
- d. When range 2 is not using McNair OP for training purposes, Range Control will make a determination on a case-by-case basis. The reason for personnel movement will be taken into account prior to a decision.

**10-6. OP 5.** OP 5 is located along the ridge in Area H west of Range 11.

**10-7. Marne Confidence Course.** The Confidence Course is located in Training Area K at WL78967768 and contains those obstacles depicted in figure 10-1. FM 21-20 should be referenced for an explanation of the obstacles included in the course.

**10-8. Anzio Obstacle Course.** The Obstacle Course is located in Camp Buckner at WL78777818 and contains those obstacles depicted in figure 10-2. No nets, ropes, etc., are in place during the academic year. Therefore only the low level obstacles may be used. No water obstacles will be used during the academic year.

**10-9. Range 12 and "SAPPER ISLE"** (WL80717745) (figure 10-3). These demolition sites are approved for use only during the summer in support of the Cadet Training Program and will NOT be approved for other users. The use of TNT, dynamite, blasting caps, detonation cord, C-4, shape charges, and Bangalore Torpedos is authorized in the designated firing pits. Total combined charge may not exceed 16 pounds, 1/2 pound on Sapper Isle. The following safety precautions will be strictly followed:

- a. A scarlet danger flag will be prominently displayed at Gate 17 whenever explosives are being used.
- b. The gate guards will not permit entrance by vehicles or personnel while the range is in use without the approval of the Range OIC.
- c. A 300 meter radius surface danger area (from WL803770) will be outlined with white engineer tape wrapped around trees and "Danger Blasting" signs will be spaced at 50 foot intervals.
- d. Personnel within 100 meters and actually involved in firing explosives will be required to wear kevlar helmets and ear plugs.
- e. Due to lack of shelter, no one will be able to directly view the blast. All personnel will be beyond the 300 meter surface danger area before the OIC permits detonation.
- f. The OIC will establish a rally point before training begins and make it known to all personnel. Before detonation, the OIC will ensure all personnel are at the rally point.
- g. Stillwell Lake will be off limits to all personnel, and recreation activities will be prohibited during periods of use of this demolition site.
- h. Sapper Isle Operations (Sapper Raid STX) - The Mobility/Survivability (MS) (Engineer) Committee of Cadet Field Training are the only authorized users of this training site.
  - (1) Explosive charges may be exploded in roofless sandbag bunkers on this island. Charges will not exceed 1/2 pound per bunker, fired non-electrically. Surface danger areas in this instance are 60 meters. Personnel must wear kevlar helmets and earplugs.
  - (2) The range OIC will move with the assault force to the island and will maintain personal control of the detonation means (blasting caps).
  - (3) The RSO pilots the safety boat, with a medic on board. (Ambulance remains in Area W.)
  - (4) Only FM radio communication is necessary to operate this range. The OIC and RSO will each have a radio for redundant communications with Range Control.
  - (5) The range will go "wet" when the assault force reaches the island. The RSO will request "wet" and "dry" times.
  - (6) After the assault force emplaces the charges, which were primed in the mission's objective rallying point (ORP) before boat movement, the RSO checks the line main and branch lines (detonation cord). The OIC issues the blasting caps to the demolition unit leader after this check, who crimps them to seven (7) minutes of time fuse. The OIC accounts for all personnel on the island, placing those not needed for initiation in their boat. The demolition party then ignites the fuse. The assault force departs the island and returns to the ORP. The OIC and RSO check the island once more for personnel and departs ensuring all boats are clear of the surface danger area (100 meters). After the blast the RSO clears the island and requests a "dry" time.

**10-10. Pine Ridge Rappel Site.** See figure 10-4 for details. Users of the rappel site are required to maintain radio communication with Range Control, and have a qualified aide person, litter and dedicated evacuation vehicle on-site during the conduct of training. Use of this site is considered the same as use of a range and therefore requires a qualified OIC and RSO (training certification of the OIC and RSO by the battalion commander or equivalent is mandatory). This site offers training for beginner and advanced



rappelling. Lanes are also available for Hasty Rappel, Body Rappel, and Balance Climb (not shown in figure 10-4).

**10-11. Training Area P, "Verdun NBC Site."** This Training Site consists of a permanent NBC Chamber with a parking area, GP Medium tent pads, and latrine facilities located at WL 75457607. This facility is scheduled through Range Control.

**10-12. Maddock Drop Zone.** This is a circular-shaped drop zone of a 600 meter diameter located directly north of Lake Frederick at WL753773. This Drop Zone is for the exclusive use of the USMA Airborne Detachment and the USMA Cadet Parachute Team. This facility is scheduled through Range Control.

**10-13. Lundy's Lane Leaders' Reaction Course.** This site is located in Area K at WL794776. Access is off Route 293. The location is shown at figure 10-7. A separate pamphlet describing the course and its operation is available from Range Control. The Leaders' Reaction Course is scheduled through Range Control.

**10-14. Appomattox Combative Pit.** This site consists of a sawdust-filled combative pit located at WL795786 adjacent to Camp Buckner and Route 293.

**10-15. Bull Run Water Confidence Training site.** This site extends over Popolopen Lake from Camp Buckner to White Oak Island at WL78707827. It consists of a slide for life, rope bridge, and beams walk-rope drop. Users must have a qualified and fully equipped scuba diver on site. Two boats with two lifeguards each is required to operate this course. The battalion commander or equivalent will certify the training and qualifications of the diver and lifeguards. Medic and ambulance are required. Scheduling is done through Range Control.

**10-16. Baatan Bayonet Assault Course (BAC).** The BAC is located in area B (WL 798789) and consists of 9 lanes of obstacles and is approximately 400 meters in length. Its use is scheduled through Range Control.

**10-17. Weaponeer.** See Chapter 7, Range 11 for information on this facility.

#### **10-18. Land Navigation Courses**

a. The Vera Cruz Land Navigation Course is located in area R. The Vicksburg Advanced Land Navigation Course is located in areas C and P. When requesting these areas from Range Control specify which course is desired. The course key can be picked up from Range Control. A recon of the course is strongly recommended before training. Score points consist of marked trees with numbered tin can lids; The Program Of Instruction (POI) may be signed out from Range Control.

b. Numerous Orienteering Courses are available at West Point. The Department of Geography and Environmental Engineering sponsors the Cadet Orienteering Club and can provide interested users with course descriptions. Contact the department executive officer at 938-2302.

#### **10-19. Privately Owned Weapons (POW) Range 5**

a. As a benefit to members of the USMA Staff and Faculty, Range 5 is available for the firing of privately owned weapons. The criteria and requirements for utilization of the range are outlined below.

##### **b. Basic requirements:**

(1) Who may use the POW range?

(a) USMA staff and faculty, both military and civilian, USMA cadets and active duty personnel assigned to USMA tenant units. No guests may fire or enter on the range during periods of firing. Dependents of authorized personnel may fire on this range, provided that they are at least 12 years of age and are accompanied by an authorized user at least 18 years of age. Dependents must have a signed parental release form present during firing.

(b) The number of personnel using the range at any one time will be limited by Range Control to a safe number, but no more than 30. If demand dictates, personnel may be limited in the amount of time they may occupy the range.

(2) When will the POW range be open?

(a) Hours of operation will be 1400-1800 on the third Tuesday of August, September, October, November, February, March, April and May, or when otherwise available and scheduled by Range Control.

(b) Military training needs and the availability of Range Control personnel may limit the amount of time the POW range will be open.

(3) What type weapon can be fired? Pistols and rifles no larger than a 30.06 caliber, firing standard M2 ball ammunition (see table 6-1, AR 385-63).

(4) How to gain access.

(a) Report to Range 5 to register yourself and your weapon during the POW range's hours of operation. Receive a safety briefing from Range Control and sign a release from liability.

(b) Report to the POW range NCOIC at range 5, who will be the POW range OIC/RSO.

#### **c. Responsibilities.**

##### **(1) Range Control**

(a) Develop and implement a plan to control personnel using the POW range.

(b) Provide a range certified NCO at range 5 during POW range's hours of operation to run the range, to act as an NCOIC, and ensure all personnel are using the range in a safe manner.

(c) The POW range NCOIC will operate the range so that there are "wet" periods and "dry" periods. The dry periods will allow personnel to go down range and set-up targets or record hits. It also provides a period for users to come and go on the firing line.

(d) The POW range NCOIC will verify the user has a valid ID card, and will verify the weapon and type of ammunition to be fired. He will assign the individual a firing point. He will also clear all weapons off the firing line.

##### **(2) Individual Users of the Range**

(a) Be familiar with the weapon and ammunition being fired.

(b) Obey all Range Control directives and the provisions of this regulation.

(c) Provide his own targets and target frames.

(d) Provide own hearing protection.

(e) Conduct all firing in a manner which is safe to himself and other personnel on the range.

(f) Police the range after use.

#### **d. General Procedures**

(1) POVs will be parked only in the POV area of the range 4/5 complex. NO POVs will be used on the range.

(2) During periods of firing all non-firers will stay in the area of the bleachers.

(3) Weapons will not be loaded anywhere on the range, except on the firing line, and only with the express permission of the Range NCOIC.

(4) To avoid any confusion, weapons will not be cleaned on the range.

### **10-20. Air Rifles and "BB" Guns**

a. Air Rifles, "BB" Guns, and Pellet Guns may be fired in the range and training area under the following conditions:

(1) These weapons may be fired only by soldiers assigned to USMA and/or their dependents and USMA Cadets.

(2) All persons wishing to fire one of the above weapons must first report, in person, to Range Control. (Call ahead to see when Range Control will be open, x4317/3930.) Under no circumstances will anyone fire one of these weapons without Range Control's permission.

(3) Range Control personnel will:

(a) Check the weapon to ensure it poses no danger.

(b) Ensure eligibility of user (check ID Card).

(c) Give the user a safety briefing.

(d) Assign an area to the user for firing.

- (e) Have the user sign a release from liability.
- (f) Maintain a sign in log of all users.
- (4) Users will:
  - (a) Be responsible for themselves and their dependents at all times. Ensure they do not stray from the assigned area and are using the weapon in a safe manner at all times.
  - (b) Provide their own targets.
  - (c) Police the area after use.
  - (d) Sign out at Range Control immediately after firing.
  - (e) Ensure they maintain a safe range and key weapons are safe when not in use.
- b. Range Control will establish areas where these weapons can be safely fired.
- c. Range Control can deny use to anyone based on other training needs, safety, or Range Control's schedule.
- d. No minor will be allowed to fire a weapon without adult supervision. The adult must fit the criteria in paragraph 10-21, a(l) above. Dependent guests and minors are limited to two per authorized adult.

### **10-21. Poison Ivy Wall Mountaineering Site**

The Poison Ivy Wall Mountaineering Site (WL871813) is located on West Point, off Williams Road. Poison Ivy Wall has been a mountaineering site for the Cadet Mountaineering Club since 1984. The Cadet Mountaineering Club is the only activity authorized to use the site. Responsibility for the operations, maintenance and safe use of the site rests with the Director of Physical Education (DPE).

## **CHAPTER 11**

### **AIR, AIRBORNE AND HELOCASTING OPERATIONS**

#### **11-1. Air Operations Within the Training Area**

- a. General.
  - (1) All air operations within the range and training area must have prior approval from the CDR, 2nd Aviation Detachment (914) 567-1088/1164 and Range Control (914) 938-3930. Requests to use the training area for air operations should be addressed on USMA Form 1-249, figure 6-1 and require the same lead times as requests for any other range or training area. All air operations over West Point proper will be coordinated through the DOPS, Air Force Liaison Officer, (914) 938-4204.
  - (2) All air operations conducted east of New York State Highway 9W require the prior approval of the USMA, US Air Force Liaison Officer, (914) 938-4204.
  - b. Helipads are located throughout training area and are denoted on the range map by a red triangle.
  - c. Nap of the Earth (NOE) Flying.
    - (1) NOE flying is authorized at USMA over the areas listed below after the unit has coordinated with both the 1-1 IN, Range Control Specialist and Commander, 2nd Aviation. Units will avoid flying over the USMA housing area.
    - (a) West NOE Area: Training Areas - B, N, I, S, O, Q, A1, A2, C, and P.
    - (b) South NOE Area: Training Areas - T1, T2, X, U1, U2, Y, and Camp Shea (CS).
    - (2) No more than two aircraft may operate in any NOE area at a time.
    - (3) Aircraft operating NOE will contact Range Control on FM 50.00 when beginning and concluding NOE training.
    - (4) All provisions of Army Regulations, the using units aviation SOP's and other applicable publications apply when flying at USMA.
  - d. Night Vision Goggles (NVG) are not authorized at the USMA reservation.

#### **11-2. Airborne Operations.**

- a. General.

(1) Airborne operations may be conducted at USMA by units, both Active and Reserve Component, authorized to conduct such operations.

(2) No unit will be permitted to conduct airborne operations at USMA without the prior written approval of the DOPS, USMA. Long term approval may be granted by submitting the unit's current Airborne SOP to DOPS (ATTN: Air Force Liaison Officer) for review. Allow four months for approval.

(3) USMA has a drop zone which will accommodate Ram-Air canopies only.

(4) All provisions of Army Regulations, the using unit's airborne SOP, and other applicable publications apply when conducting airborne operations at USMA.

b. Drop Zone (DZ):

(1) Maddock (WL753774).

(a) This DZ is for the exclusive use of the Cadet Parachute Team and is controlled by the Airborne Detachment (938-4314), HHC, 1-1 IN, West Point, NY.

(b) Only helicopter drops can be made at this DZ.

### **11-3. Helocasting**

a. Helocasting may be conducted at USMA by units who can satisfy all the requirements of TC 31-25, Appendix F. No unit will be permitted to conduct helocasting operations at USMA without the prior written approval of the DOPS, USMA. Long term approval may be granted by submitting the unit's current Helocasting SOP to DOPS (ATTN: Air Force Liaison Officer) for review. Allow four months for approval.

b. All helocasting will be conducted in Popolopen Lake between WL785781, Southwest to WL782776. Helocasting is not authorized in any other body of water on USMA.

c. Units conducting helocasting training will be responsible for providing all safety equipment and personnel required by TC 31-25, Appendix F.

## APPENDIX A REFERENCES

AR 40-5 -	Preventive Medicine.
AR 75-1 -	Malfunctions Involving Ammunition and Explosives.
AR 75-15 -	Responsibilities and Procedures for Explosive Ordnance Disposal.
AR 95-2 -	Air Traffic Control, Airspace, Airfields, Flight Activities and Navigational Aids.
AR 190-11 -	Physical Security of Arms and Ammunition.
AR 190-51 -	Security of Army Property at Unit and Installation Level.
AR 210-21 -	Army Training Ranges.
AR 350-1 -	TRAINING - Army Training with USMA Suppl 1.
AR 385-9 -	SAFETY - Requirements for Military Lasers.
AR 385-10 -	SAFETY - Army Safety Program with USMA Suppl 1.
AR 385-15 -	SAFETY - Water Safety
AR 385-40 -	SAFETY - Accident Reporting and Records.
AR 385-63 -	SAFETY – Policies and Procedures for Firing Ammunition for Training Target Practice and Combat.
AR 385-64 -	SAFETY - Ammunition and Explosive Safety Standards.
AR 420-70 -	Buildings and Structures.
TM 43-0001-28 -	Army Ammunition Data Sheets for Activity Ammunition
TM 9-1300-200 -	Ammunition, General.
TM 9-1300-206 -	Ammunition and Explosives Standards.
TM 9-1300-214 -	Military Explosives.
TM 9-1370-200 -	Military Pyrotechnics.
FM 5-103 -	Survivability
FM 5-250 -	Explosives and Demolitions.
FM 6-40 -	FIELD ARTILLERY - Field Artillery Cannon Gunnery.
FM 9-13 -	Ammunition Handbook.
FM 21-75 -	INDIVIDUAL SOLDIER – Combat Skills of the Soldier
FM 21-10 -	Field Hygiene and Sanitation.
FM 23-25 -	WEAPONS - Anti-Tank AT-4
TC 25-8 -	Training Ranges.
FM 23-9 -	WEAPONS - M16A1 Rifle and Rifle Marksmanship.
FM 23-11 -	WEAPONS - 90mm Recoilless Rifle, M67.
FM 23-14 -	WEAPONS - Squad Automatic Weapon (SAW).
FM 23-30 -	WEAPONS - Grenades and Pyrotechnic Signals.
FM 23-31 -	WEAPONS - Grenade Launchers M203 and M79.
FM 23-25 -	Light Antiarmor Weapons.
FM 23-35 -	WEAPONS - Pistols and Revolvers.
FM 23-41 -	WEAPONS - Submachine Guns, Caliber .45, M3 and M3A1.
FM 23-65 -	WEAPONS - Browning Machine Gun, Caliber .50, Heavy Barrel, M2.
FM 23-67 -	WEAPONS - Machine Gun, 7.62mm, M60.
FM 23-90 -	WEAPONS - 81mm Mortar.
FM 23-91 -	WEAPONS - Mortar Gunnery.
FM 57 -220 -	Basic Parachuting Technique and Training.
TC 23-2 -	66mm Rocket Launcher, M202A1.
TC 31-25 -	Air Assault Training.
FM 57-220 -	Static Line Parachuting Techniques and Training
USMA REG 210-2 -	INSTALLATIONS - Responsibilities for Use of Camp Buckner.
USMA REG 210-6 -	INSTALLATION - Temporary use of USMA Facilities
USMA REG 215-5 -	INSTALLATION - Morale, Welfare, Recreation, Hunting, Fishing and Trapping.

USMA REG 420-1 - FACILITIES ENGINEERING - Maintenance and Operation of Athletics and Recreation Facilities.

USMA REG 420-3 - FACILITIES ENGINEERING - Fire Prevention and Protection.

USMA REG 420-5 - FACILITIES ENGINEERING - Grounds Maintenance.

USMA REG 420-11 - FACILITIES ENGINEERING - Customer Work Priority Program.

USMA REG 75-1 - AMMUNITION SUPPLY POINT SOP - Ammunition Policies and Procedures.

**APPENDIX B**  
**TRAINING COMPLEX BUILDINGS**

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<u>BUILDING</u>	<u>TYPE</u>	<u>LOCATION</u>	<u>CONTROL</u>
1291	Observation Bay	Range 1	Range Control
1293	Tower	Range 1	Range Control
1315	Storage	Range 2	Range Control
1334	Administrative	Range 1	Range Control
1335	Weaponer	Range 4	Range Control
1336	Tower	Range 5	Range Control
1339	Mess Shelter	Range 5	Range Control
1384	Tower	Range 4	Range Control
1385	Administrative	Range 2	Range Control
1387	Tower	Range 8	Range Control
1388	Storage	Range 2	Range Control
1390	Tower	Range 7	Range Control
1393	Storage	Range 2	Range Control
1397	Storage	Range 8	Range Control
1398	Weaponer	Range 4	Range Control
1399	Observation Post	McNair OP	Range Control
1403	Administrative	HQ, Range Control	Range Control
1421	Administrative	Range 11	Range Control
1423	Mess	Range 11	Range Control
1425	Tower	Range 11	Range Control
1437	Storage	Range 4	Range Control
1438	Tower	Range 4	Range Control
1499	Storage	Range 11	Range Control
1653	Storage	Area V	Range Control
1657	Admin Storage	Area W	Range Control
1659	Admin Storage	Area W	Range Control
1664	Storage	Mine Torne Rd	DHPW
1670	Storage	Mine Torne Rd	DHPW
1675	Tower	Range 12	Range Control
1680	Storage	Area V	Range Control
681	Administrative	Area V	Range Control
1682	Storage	Mine Torne Rd	Range Control
1690	Administrative	Area T	Range Control
1698	Storage	Area W	Range Control
1699	Administrative	Area W	Range Control
1750	Storage	Area K	Range Control
1752	Storage	Area Y	Range Control
1758	Administrative	Area Y	Range Control
1760	Storage	Area A1	Range Control
1812	Shelter	Range 9	Range Control
1845	Storage	NBC Site	Range Control
1850	Storage	NBC Site	Range Control
1867	Storage	NBC Site	Range Control

**APPENDIX C**  
**LATRINE and BIVOUC SITE LOCATIONS**

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LATRINES

RANGES:

Range 1 - WL85078065  
WL84918080

Range 2 - WL83488122  
WL83428132  
WL82478082  
WL83318129

Range 4/5 - WL82478082  
WL82548076  
WL82338056

Range 7/8 - WL81817993  
WL81657990

Range 11 - WL80807924  
WL80807889

Range 12 - WL80917808

TRAINING AREAS:

Area B2 - WL79997908

Area H - WL80917808

Area J - WL85048268

Area K - WL79387772  
WL79017784

Area L - WL78048165

Area N - WL78128165

Area P - WL75907619  
WL75517611  
WL76777787

Area O - WL77207714  
WL76507765

Area R - WL75997745  
WL75917760

Area T1 - WL79567640

Area T2 - WL80147675

Area U2 - WL82057569

Area V - WL80137832

Area W - WL79997785  
WL80177770

Camp Shea - WL82417494

(All latrines are divided into male and female sections)



## BIVOUAC SITES

<u>AREA</u>	<u>GRID COORDINATE*</u>	<u>UNIT SIZE**</u>
W	WL801776	Company
W	WL800777	Company
J	WL850826	Company (Restricted Use)
V	WL801783	Company
H	WL808780	Company(-)
CS	WL823749	Company(+)
U2	WL821760	Company
T2	WL800766	Company(+)
O	WL767778	Company(+)
N	WL779815	Company
L	WL765800	Company(+)
R	WL759774	Battalion
P	WL754760	Company (NBC Site)
C	WL763767	Company
K	WL790779	Company(-)
B2	WL799790	Company(+)
B2	WL797783	Company
Range 1	WL848806	Company
Range 2	WL834814	Company(+)
Range 3/4/5	WL823805	Company
Range 7	WL816799	Company
Range 11	WL807789	Company
Range 12	WL809779	Company

\* A latrine is typically within 200 meters.

\*\*Based on Light Infantry MTOE.



**APPENDIX D**  
**BLEACHER SITES**

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Range 1	Metal Metal	1 Set, 5 Tier 2 Sets, 10 Tier
Range 2	Metal Metal Metal Metal	2 Sets, 10 Tier 1 Set, 5 Tier 1 Set, 5 Tier 1 Set, 5 Tier
Range 3	Metal Metal	2 Sets, 10 Tier 6 Sets, 5 Tier
Range 4	Metal Metal Metal Metal	4 Sets, 5 Tier 2 Sets, 5 Tier 2 Sets, 10 Tier 2 Sets, 5 Tier
Range 5	Metal Metal	4 Sets, 10 Tier 1 Set, 10 Tier
Range 6	Metal Metal	2 Sets, 10 Tier 2 Sets, 5 Tier
Range 9	Metal	1 Set, 5 Tier
Area H	Metal	1 Set, 5 Tier
Area J	Metal	1 Set, 5 Tier
Area K	Metal	2 Sets, 5 Tier
Area L	Metal	3 Sets, 10 Tier
Area M	Metal	1 Set, 10 Tier
Area R	Metal	4 Sets, 5 Tier
Area T	Metal	2 Sets, 10 Tier
Area U	Metal	4 Sets, 5 Tier
Area V	Metal Metal Metal Metal	1 Set, 10 Tier 1 Set, 10 Tier 2 Sets, 10 Tier 2 Sets, 10 Tier
Area W	Metal Metal	2 Sets, 5 Tier 1 Sets, 5 Tier



## **APPENDIX E**

### **SKEET AND TRAP RANGE AND RECREATIONAL PISTOL RANGE**

#### **1. PROCEDURES FOR USING THE RANGES**

##### **a. General**

- (1) Personnel eligible to use the ranges are defined in AR 215-1, para 6-2. They are:
  - (a) Active duty military to include the Corps of Cadets.
  - (b) Military retirees.
  - (c) Reserve Component personnel.
  - (d) DOD civilian employees at West Point and Stewart Army Subpost.
  - (e) Authorized dependents of the above, 12-18 years old when accompanied by an certified adult.
  - (f) Guests of the above.
- (2) Personnel authorized to sign for these two ranges will have to complete a safety course administered by Range Control, and be certified as qualified users. Only safety qualified personnel will be eligible to sign out the ranges. Arrangements to take the course can be made with Range Control.
  - (a) A minimum of 2 certified persons must be present on the range at all times when the range is firing.
  - (b) Minors ages 12-18 must be accompanied by an certified adult and must have a signed parental release form.
- (3) A separate course will be offered for each range.
- (4) All qualified users and guests wishing to use the range will have to sign in at Range Control prior to proceeding to the ranges. At this time keys will be issued to safety course qualified personnel only for the range gates and buildings.
- (5) All users will sign a release from liability (Appendix G, Figures G-4, G-5, and G-6) before using the ranges. This does not apply to cadets participating as part of a cadet team.
- (6) Users will police the range of all brass, ammunition, targets, and trash before leaving.
- (7) Upon leaving the range, the electricity will be turned off, the gate locked, and the key returned to Range Control.
- (8) These ranges will not be used when ranges 7 and/or 8 are scheduled for use. See the USMA Daily Bulletin for the schedule.

##### **b. BASTOGNE (Skeet and Trap Range). (Range 10)**

- (1) The Cadet Skeet and Trap Team has priority.
  - (a) A Commandant's Representative (CR) must be present during cadet team practices and competitions.
  - (b) The Cadet Team CR will schedule the use of Range 10 with Range Control and report to Range Control to occupy the range.
- (2) All individual users must complete an additional course of instruction on the use of the equipment on this range.
- (3) A maximum of 19 shooters may use this range at any one time.

##### **c. STONY POINT (Recreational Pistol Range) (Range 9).**

- (1) This is an individual use, recreational range for target practice only. Supervision will be minimal. The utmost precautions will have to be exercised when using this range.
- (2) Users must schedule the use of Range 9 with Range Control and report to Range Control to occupy the range.
- (3) All firing will occur from the firing line under the shelter. No move out, or combat pistol firing will be permitted.
- (4) The 50 meter target line will not be used when the skeet and trap range is in use.
- (5) No one will move down range to set or check targets until all the weapons on the firing line

have been cleared and placed on the tables. No one will handle weapons while people are down range.

(6) Periods of firing and cease fire will be coordinated amongst the users.

(7) IAW Range Risk Assessment, 6 JUN 97, OP McNair must be closed when Range 9 is live.

## 2. ADMINISTRATIVE

a. A latrine is available.

b. POV parking is available.

c. A class C telephone is located at the pistol range, 938-2681/6037.

d. Absolutely no alcohol is permitted anywhere on the range.

e. Users will report any malfunctions of equipment, or damage to range property immediately to Range Control.

f. The range will be opened and closed by the qualified users per the checklist issued at Range Control.



## **APPENDIX F**

### **RANGE RISK ASSESSMENT**

#### **1. Range 1, Hand Grenades, RAC 1**

**ISSUE:** Practice Area, concurrent training area, bleachers and parking lot are within SDZ (150 meters minimum distance for unprotected personnel).

**RECOMMENDATION:** All personnel handling or throwing casualty producing hand grenades who are within the 150 meter danger area when hand grenades are thrown will wear kevlar helmets and earplugs.

RECOMMENDATION IS BEING FOLLOWED.

#### **2. Range 2, Artillery and Mortar, RAC 2**

**ISSUE:** The road below the firing point is within the SDZ for artillery weapons.

**RECOMMENDATION:** Close the road when the range is hot.

RECOMMENDATION IS BEING FOLLOWED.

#### **3. Range 5, RAC 4**

**ISSUE:** The left and right fields of view are obstructed inside the control tower.

**OPTIONS:**

- a. Build a new range tower.
- b. Insure RSO coordinates visually with all safety personnel before allowing firing to start.

**RECOMMENDATION:** b

RECOMMENDATION b IS BEING FOLLOWED

#### **4. Range 4, RAC 3**

**ISSUE:** Training areas Z2, D2 and D3, and D5 are within the SDZ for the M16A2.

**OPTIONS:**

- a. Close D2, D3, D5 and Z2.
- b. Allow artillery firing because Range 2 firing points are outside of the SDZ.

**RECOMMENDATION:** a and b

RECOMMENDATIONS a and b ARE BEING FOLLOWED

#### **5. Range 4, RAC 4**

**ISSUE:** The left and right fields of view are obstructed inside the control tower.

**OPTIONS:**

- a. Build a new range tower.
- b. Insure RSO coordinates visually with all safety personnel before allowing firing to start.

**RECOMMENDATION:** b

RECOMMENDATION b IS BEING FOLLOWED.

#### **6. T2 Demolition Site, RAC 1**

**ISSUE:** Personnel must maintain the proper safe distances while conducting demolitions training.

**RECOMMENDATION:** Maintain the following safe distances:

##### **a. Demolitions Training**

(1) TNT, dynamite, blasting caps, detonation cord, C-4, shaped charges: Total authorized combined charge may not exceed 16 pounds NEW at T2. All unprotected personnel must be at least 300



meters away in a defilade position, or at least 100 meters away in a missile proof shelter. All personnel will wear kevlar helmets and earplugs.

(2) The minimum distances may be reduced to 50 meters if bare charges are not more than 5 pounds are used on the surface of specially prepared sites.

(3) Shaped charges will be oriented so that the gas jets are directed toward the target and away from observers.

**b. Bangalore Torpedoes**

(1) Fire in a horizontal position on the ground.

(2) Combined NEW may not exceed 16 pounds.

(3) Safe distances for cutting operations: 100 meters in a missile proof shelter, 200 meters in a defilade, 500 meters in the open

(4) All personnel will wear approved protective helmets and earplugs.

THIS IS NO LONGER AN ISSUE DUE TO THE FACT THAT THE TRAINING AREA HAS BEEN MOVED TO RANGE 12.

**7. T2 Demolition Site, RAC 3**

**ISSUES:**

a. The SDZ for T2 demolitions training overlaps Training Areas T2 and U1.

b. The SDZ for T2 bangalore torpedo training overlaps Training areas T1, T2, U1 and Stilwell Lake.

**OPTIONS:**

a. Close T2 and U1 during T2 demolition training.

b. Close T2 and limit use of U1 (Maneuver Light) during demolition training.

c. Close T1, T2, U1 and Stilwell Lake during bangalore torpedo training.

**RECOMMENDATIONS:**

a. Demolition training: b

b. Bangalore torpedo training: c

THIS IS NO LONGER AN ISSUE DUE TO THE FACT THAT THE TRAINING AREA HAS BEEN MOVED TO RANGE 12.

**8. Sapper Isle, RAC 1**

**ISSUE:** Personnel must maintain the proper safe distance while conducting demolitions training.

**RECOMMENDATION:** The total authorized combined charge may not exceed 1/2 pound NEW per bunker on Sapper Isle. All personnel must be at least 60 meters away and will wear kevlar helmets and earplugs.

RECOMMENDATION IS BEING FOLLOWED.

**9. Sapper Isle, RAC 3**

**ISSUE:** The SDZ for Sapper Isle demolitions training overlaps the eastern portion of Stilwell Lake.

**RECOMMENDATION:** Close Stilwell Lake during Sapper Isle demolitions training.

RECOMMENDATION IS BEING FOLLOWED.

**10. Range 7,8,9,10 Multi-Use Ranges, RAC 1**

**ISSUE:** DCFA (CRD) and DCA have access to and conduct firing on Ranges 10 and 9 without the knowledge of Range Control.

**OPTIONS:**

a. Assume risk for recreational firing.

b. Maintain key control and scheduling of all ranges at Range Control.

F-2

c. Establish commo with some other agency (1-1 IN SDNCO).

d. Augment Range Control when firing recreationally and when Range Control is not open.

**RECOMMENDATION:** b and d

RECOMMENDATION b IS BEING FOLLOWED.

RECOMMENDATION d IS ONGOING, ALTHOUGH RANGE CONTROL HAS NOT BEEN AUGMENTED FOR RECREATIONAL FIRING.

**11. Range 7,8,9,10 Multi-Use Ranges, RAC 2**

**ISSUE:** Inadequate signs between HW 293 and Ranges 7,8,9,10. Individuals could get into the 40mm range area.

**OPTIONS:**

a. Assume all risk of inadequate signs.

b. Install nonverbal sign.

**RECOMMENDATION:** b

STANDARD D.O.D. "DUD AREA" SIGNS HAVE BEEN EMPLACED. A CHAIN-LINK FENCE INHIBITS ACCESS AND BARBED WIRE SURROUNDS THE IMPACT AREA.

**12. Range 9, Recreational Pistol Range, RAC 3**

**ISSUE:** SDZs for .45 cal/9mm pistols (including blackpowder equivalent) overlaps OP McNair.

**OPTIONS:**

a. Close OP McNair during range operations.

b. Limit access and allow only inside observation.

**RECOMMENDATION:** a

RECOMMENDATION a IS BEING FOLLOWED.

**3. Range 8, 40mm Grenade, RAC 1**

**ISSUE:** 40mm grenades create a severe dud hazard.

**RECOMMENDATION:** Depict a high hazard impact area on the West Point map.

DEPICTION OF HIGH HAZARD IMPACT AREA WILL BE IMPLEMENTED ON THE NEXT PRINTING OF WEST POINT MAP.

**14. Range 8, 40mm Grenade, RAC 1**

**ISSUE:** The fragmentation zone overlaps Range 7 to the front of the firing line.

**RECOMMENDATION:** Do not allow anyone forward of the Range7 firing line when 4C is hot.

RECOMMENDATION IS BEING FOLLOWED.

**15. Range 7, AT-4/LAW, RAC 2**

**ISSUE:** The bleachers are within the backblast area for the AT-4.

AS THE BLEACHERS ARE OLD AND IN DISREPAIR, MOVING THEM COULD CAUSE STRUCTURAL DAMAGE AND RENDER THEM UNSERVICEABLE.

**OPTIONS:**

a. Permit no one in the bleachers during AT-4 live fire.

b. Move the bleachers back to at least 100 meters from the firing line (currently 95 meters from firing point 5).

c. Install new bleachers at least 100 meters from the firing line.

**RECOMMENDATION:** a and c  
RECOMMENDATION a IS BEING FOLLOWED.

F-3

**16. Range 7, AT-4, RAC 2**

**ISSUE:** The SDZ extends into training area D1.

**OPTIONS:**

- a. Close training area D1 when 7 is hot.
- b. Redraw training area D1. Create an area D4. Only close area D4 when 7 is hot.

**RECOMMENDATION:** b

RECOMMENDATION b IS BEING FOLLOWED. AREA D-4 HAS BEEN CREATED AND IS CLOSED WHEN RANGE 7 IS HOT

**17. Range 7, 90mm, RAC 2**

**ISSUE:** The SDZ extends into training area D1.

**OPTIONS:**

- a. Close training area D1 when Range 7 is hot.
- b. Fire the 90mm recoilless rifle at quadrant elevation of less than 15 degrees. This will bring the round below the crest of the forward hill.
- c. Redraw training area D1. Create an Area D4. Only close Area D4 when Range 7 is hot.

**RECOMMENDATION:** c

RECOMMENDATION c IS BEING FOLLOWED. AREA D-4 HAS BEEN CREATED AND IS CLOSED WHEN RANGE 7 IS HOT.

**18. Range 5**

**ISSUE:** Area E2 and Mine Torne Road are in the Surface Danger Zone (SDZ) for Range 5 when Range 5 is firing the M-60 Machine Gun.

**OPTIONS:**

- a. Close Area E2 and Mine Torne Road when Range 5 is firing the M-60 Machine Gun.
- b. Grant WAIVER to keep Area E2 and Mine Torne Road open when Range 5 is firing the M-60 Machine Gun because surrounding terrain masks these areas from ricochet.

OPTION b WAS APPROVED BY SUPERINTENDENT, USMA, LTG CHRISTMAN, 6 JUNE 1997.

**19. Range 4**

**ISSUE:** Portions of Range 4 are in the Surface Danger Zone (SDZ) for Range 2 when Range 2 is firing Artillery. The firing points and zero targets on Range 4 are outside of the Surface Danger Zone (SDZ) for Range 2 when Range 2 is firing Artillery.

**OPTIONS:**

- a. Close Range 4 when Range 2 is firing Artillery.
- b. Grant WAIVER allowing Range 4 to fire concurrently with Artillery fire on Range 2 because firing points and zero targets are outside of the Surface Danger Zone (SDZ).

OPTION b WAS APPROVED BY SUPERINTENDENT, USMA, LTG CHRISTMAN, 6 JUNE 1997.

**20. Range 11**

**ISSUE:** Areas D1 and D3 are in the Surface Danger Zone for Range 11 when Range 11 is firing. Terrain Analysis shows that the surrounding terrain significantly masks potential ricochet effects.

**OPTIONS:**

- a. Close Areas D1 and D3 when Range 11 is firing.
- b. Grant WAIVER to keep Areas D1 and D3 open when Range 11 is firing because the surrounding terrain significantly masks potential ricochet effects.

OPTION b WAS APPROVED BY SUPERINTENDENT, USMA, LTG CHRISTMAN, 6 JUNE 1997.

## APPENDIX G

### ADMINISTRATIVE FORMS

1. **REPRODUCTION.** Each of the forms presented in this chapter may be locally reproduced. Additional forms are available from the S3, 1-1 IN/DPTM, or Range Control, if required.

2. **USMA RANGE/TRAINING COMPLEX REQUEST (USMA Form 1-249-R) (Figure G-1).**

a. One copy of this request will be prepared for each day of training, by each unit or activity desiring to utilize the USMA Training Complex facilities and forwarded through appropriate command channels to Range Control 938-3930/4317, fax 938-6422.

b. The requesting unit commander or OIC will ensure that each applicable line, or box of the request is completed.

c. Multiple facilities may be requested on the same form and same line providing all other information on the line is the same. In the event multiple ranges are requested on the form, each range must be shown on separate line, with the weapons to be fired and the type of ammunition to be used.

3. **RELEASE FROM LIABILITY (ORGANIZATION) (Figure G-2).** This form will be completed by an appointed or elected official of each civilian organization/activity requesting permission to utilize the Training Complex. The form will be attached to the organization's request to use the Training Complex. Active and Reserve Components of the Armed Forces are not required to submit this form.

4. **RELEASE FROM LIABILITY (ADULT) AND RELEASE FROM LIABILITY (MINOR) (Figures G-3 and G-4).** The appropriate form will be completed for all civilian personnel using the USMA Training Complex. Persons under 18 years of age are classified as minors for this purpose. Prior to commencing training, the forms will be delivered to Range Control where they will be administratively checked.

5. **CERTIFICATE OF TRAINING FOR RANGE OFFICERS IN CHARGE (OIC) AND RANGE SAFETY OFFICERS (RSO) (Figure G-5).**

a. Each soldier designated by a unit to serve as a range OIC and/or RSO will have one of these forms completed and signed by their Battalion Commander or equivalent before he/she is allowed to operate a range.

b. Separate companies or detachments who are not organic to a battalion must have first the Lieutenant Colonel, commander or higher in their chain of command execute one of these forms.

c. Signatures for the Commander will not be accepted.

d. Promotable Majors or others occupying a battalion command slot can certify an OIC or RSO.

e. Similar certificates from other installations or developed by the unit are acceptable as long they contain the same information as the USMA Certificate.

f. Presidents of civilian gun clubs must certify personnel acting as OICs and RSOs for their activities.

6. **USMA RANGE AND TRAINING COMPLEX CHECK IN FORM (Figure G-6).** For Range Control use at unit in-briefing.

7. **RANGE/TRAINING INSPECTION FORM (Figure G-7).** This form will be used by a representative of Range Control to inspect firing and training.

8. **RANGE CLEARANCE FORM. (Figure G-8).** This form will be used by a representative from Range Control to clear users after completion of firing or training. Range Clearance will take place only during daylight hours. If a unit is conducting night-fire, they must return the following day to clear their range. A copy of the completed form, signed by the Range Control representative, will be provided to the user upon completion.

9. RANGE INSPECTION CHECKLIST. (Figure G-9). This form details the responsibilities for conducting annual inspections of the Range and Training Complex.

10. DUD REPORT. (Figure G-10). This form will be used by a using unit that finds any type of DUD munition.

11. MEDEVAC REQUEST. (Figure G-11). This form will be used by any unit requiring a MEDEVAC.

12. USCC RISK MANAGEMENT WORKSHEET. (Figure G-12,13). This worksheet is a part of the United States Corps of Cadets official Risk Management Policy. Commanders of using units may use this worksheet in conjunction with the Risk Management Policy as a framework for conducting their own Risk Assessment for their scheduled training. Copies of the entire Risk Management Policy with instructions on completing the worksheet as well as Daily Risk Assessment cards are available at Range Control (938-3930/4317).

UNITED STATES MILITARY ACADEMY  
RANGE/TRAINING COMPLEX REQUEST

UNIT: \_\_\_\_\_ DATE OF REQUEST \_\_\_\_\_

UNIT ADDRESS: \_\_\_\_\_

UNIT TELEPHONE: \_\_\_\_\_ POC: \_\_\_\_\_

REQUESTED DATE (Use a separate form for each day): \_\_\_\_\_

TOTAL # PERSONNEL TO BE TRAINED: \_\_\_\_\_ # OF FM RADIO FREQ'S REQ'D \_\_\_\_\_

RANGE/TNG AREA	TYPE OF TRAINING	STAR/END TIME	NO PERSONNEL TO BE TRAINED	TYPE WEAPON	TYPE MUNITIONS OR PYRO	NO, & TYPE OF VEHICLES

"I have read and understand all portions of USMA Reg 385-11 (1997), and will ensure that the provisions of the regulation are instituted. I will ensure all persons under my responsibility are aware of their duties and responsibilities as outlined in USMA Reg 385-11, prior to the commencement of training."

Signature of Unit Commander or OIC: \_\_\_\_\_

Typed Name and Rank: \_\_\_\_\_

RELEASE FROM LIABILITY (ORGANIZATION)

In consideration of receiving permission from the Superintendent, West Point, New York for the members of the \_\_\_\_\_ to enter upon the premises of West Point  
(Organization)

West Point for the purposes of \_\_\_\_\_, on \_\_\_\_\_  
(Activity) (Date)

the receipt of such permission being hereby acknowledged, the undersigned, on behalf of the \_\_\_\_\_ hereby releases the Superintendent, West Point, and the United  
(Name of Organization)

States Military Academy, the Department of the Army, its agents, officers, servants, and personnel of and from any and all liability, claims, demands, actions, whatsoever arising out of or relating to any loss, damage, death or injury that may be sustained by any personnel of the undersigned organization while in, on or upon the premises for the aforementioned activities, or en route to or from these premises. Furthermore, the undersigned certifies that he has the authority to sign this release for the \_\_\_\_\_ and agrees that the \_\_\_\_\_  
Name of Organization Name of Organization

will assume liability for any loss, damage, injury, death, claims, demands, actions, or causes of action, incurred or brought by any participating member of his/her representatives as a result of the requested activities.

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Signature of Representative  
of Organization

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Witness



RELEASE FROM LIABILITY (Individual)

In consideration of receiving permission from the Superintendent, United States Military Academy,  
West Point, New York, to enter upon the premises of West Point for the purposes of

\_\_\_\_\_ on \_\_\_\_\_,  
the receipt of such permission being hereby acknowledged, the undersigned hereby releases the  
Superintendent, West Point, New York, and the United States Military Academy, the Department  
of the Army, its agents, officers, servants, and personnel of and from any and all liability, claims,  
demands, actions, and causes of action whatsoever arising out of or relating to any loss, damage, death  
or injury that may be sustained by the undersigned, or any property of the undersigned, while in, on or  
upon the premises for the purpose of the aforementioned activity.

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Signature of Individual

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Witness

RELEASE FROM LIABILITY (MINORS)

In consideration of receiving permission from the Superintendent, West Point, New York for

\_\_\_\_\_ to enter upon the premises of West Point for the  
Name of Participant

purposes of \_\_\_\_\_ on \_\_\_\_\_, the receipt of such  
Activity Date

permission being hereby acknowledged, the undersigned parent/legal guardian of

\_\_\_\_\_ hereby releases the Superintendent, West Point,  
Name of Participant

and the United States Military Academy, the Department of the Army, its agents, officers,  
servants, and personnel of and from any and all liability, claims, demands, actions, and causes  
of action whatsoever, including, not limited to claims based on the negligence of any of the  
parties, arising out of or relating to any loss, damage, death or injury that may be sustained to  
or upon the person or property of \_\_\_\_\_, while in, on, or upon  
Name of Participant

the premises of West Point on the aforementioned date or en route to or from these premises.

Furthermore, the undersigned certifies that he/she is the parent or legal guardian of, and has the  
authority to sign this release for \_\_\_\_\_ and agrees that he or she  
Name of participant

will assume liability for any loss, damage, injury, death, claims, demands, actions or causes  
of actions which may be brought by the above participant, or his/her representative as a result  
of the requested activities.

\_\_\_\_\_  
Signature of Parent or Guardian

\_\_\_\_\_  
Date

USMA FL 460 (Jun 98)

Figure G-4 FIRING RANGE RELEASE (MINOR)

DATE: \_\_\_\_\_

FROM: \_\_\_\_\_

MEMORANDUM FOR Superintendent, United States Military Academy, ATTN: MABS-3, West  
Point, New York 10996-5000

SUBJECT: Certification as a Range OIC or RSO

1. I certify that \_\_\_\_\_, has  
Rank and Name  
successfully competed this unit's Range Officer in Charge/Range Safety Officer training course  
and is fully capable of fulfilling the responsibilities of a Range \_\_\_\_\_.  
OIC, RSO or both

\_\_\_\_\_ is totally familiar with USMA Reg 385-11, AR 385-63 and  
Rank and Name  
applicable FMs and TMs which apply to the weapon systems, ammunitions and/or explosives  
listed below. Additionally, \_\_\_\_\_ is personally qualified on the  
Rank and Name  
weapons systems, ammunitions, and/or explosives listed below and is fully capable of safely training  
other soldiers on the safe use and operation of those systems.

2. \_\_\_\_\_ is certified to perform Range \_\_\_\_\_ duties for the  
Rank and Name OIC, RSO or both  
following weapons systems, ammunitions, and/or explosives: \_\_\_\_\_

Signature Block

USMA FL 471 (Jun 98)

Figure G-5, CERTIFICATE OF TRAINING FOR RANGE  
OFFICER IN CHARGE AND RANGE SAFETY OFFICERS

UNITED STATES MILITARY ACADEMY  
RANGE AND TRAINING COMPLEX CHECK-IN

DATE/TIME \_\_\_\_\_

1. UNIT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
TELEPHONE NUMBER: \_\_\_\_\_  
COMMANDER: \_\_\_\_\_
2. FACILITIES UTILIZED: \_\_\_\_\_
3. OVERALL ON SITE COMMANDER: \_\_\_\_\_
4. NUMBER OF TROOPS: \_\_\_\_\_
5. LOCATION OF CP: \_\_\_\_\_ AREA: \_\_\_\_\_  
(6 Digit Grid)  
COMMAND NET FREQ: \_\_\_\_\_ LAND LINE NUMBER: \_\_\_\_\_
6. EXPECTED TIME DEPARTURE/CLEARANCE: \_\_\_\_\_
7. RANGE OIC AND RSO:  
RANGE: \_\_\_\_\_ OIC: \_\_\_\_\_ CERTIFIED: \_\_\_\_\_  
RSO: \_\_\_\_\_ CERTIFIED: \_\_\_\_\_  
RANGE: \_\_\_\_\_ OIC: \_\_\_\_\_ CERTIFIED: \_\_\_\_\_  
RSO: \_\_\_\_\_ CERTIFIED: \_\_\_\_\_  
RANGE: \_\_\_\_\_ OIC: \_\_\_\_\_ CERTIFIED: \_\_\_\_\_  
RSO: \_\_\_\_\_ CERTIFIED: \_\_\_\_\_  
RANGE: \_\_\_\_\_ OIC: \_\_\_\_\_ CERTIFIED: \_\_\_\_\_  
RSO: \_\_\_\_\_ CERTIFIED: \_\_\_\_\_

RANGE CONTROL HEADQUARTERS  
UNITED STATES MILITARY ACADEMY  
West Point, New York 10996-5000

MABS-RC

DATE: \_\_\_\_\_

MEMORANDUM FOR CDR, 1-1 IN/DGC-WP

SUBJECT: Range/Training Area, Inspection of \_\_\_\_\_.

1. The results of the above inspection are listed below. The OIC was \_\_\_\_\_,  
the RSO was \_\_\_\_\_.

REQUIREMENT

GO NO-GO

1. Red Flag/Lights properly displayed?
2. Tower has commo with Range Control?
3. Gate Guards posted?
4. Gate Guards have commo with tower?
5. Medical support present?
6. Required Pubs present (AR 385-63, USMA 385-11, TMs/FMs)?
7. DA Form 1594, journal, maintained?
8. Weapons secure and handled safely (No weapons in bleachers)?
9. Weapons cleared as required?
10. Brass/ammo check after firing?
11. Firers responsive to tower?
12. Safety briefing prior to firing?
13. Helmets, earplugs and dog tags being worn?
14. Ammo properly stored, guarded?
15. OIC and RSO present and performing duties?
16. Keller Hospital phone numbers displayed?
17. Range limits observed?
18. Only proper weapons & ammo used?
19. No damage or painting on range?
20. No POV's on range?
21. Was there a designated smoking area?
22. Latrine clean?
23. Range police accomplished?
24. Other safety concerns?
25. Comments:

INSPECTED BY: \_\_\_\_\_

USMA FL 443 (Jun 98)

Figure G-7, TRAINING COMPLEX INSPECTION FORM

RANGE CONTROL HEADQUARTERS  
UNITED STATES MILITARY ACADEMY  
West Point, New York 10996-5000

MABS-RC

DATE: \_\_\_\_\_

MEMORANDUM FOR \_\_\_\_\_  
Unit Designation

SUBJECT: Clearance Agreement for Range/Training Area \_\_\_\_\_

ITEM	ITEMS TO BE CHECKED	YES	NO
1.	Has all electric power been turned off?	_____	_____
2.	Have all communication wires been cleared from telephone taps and removed from the ranges?	_____	_____
3.	Has faulty and damaged equipment been reported?	_____	_____
4.	Have latrines been policed as required?	_____	_____
5.	Has all brass been picked up?	_____	_____
6.	Has entire range area been thoroughly policed?	_____	_____
7.	Have all ammo boxes been removed from the ranges?	_____	_____
8.	Have all targets been left in upright positions?	_____	_____
9.	Has all equipment and keys been returned to Range Control?	_____	_____
10.	CLEARED / NOT CLEARED		

UNIT

RANGE CONTROL

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Position

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

USMA FL 435 (Jun 98)

Figure G-8, RANGE CLEARANCE FORM

## RANGE INSPECTION CHECKLIST

1. The Range and Training Complex will conduct inspections as follows:

a. Monthly.

- (1) Ranges 3, 4, 5, and 11.
- (2) Lundy's Lane Leadership Reaction Course
- (3) Anzio Obstacle Course

b. Bi-Monthly.

- (1) Training Areas A1, A2, CS, E2, K, T1, T2, U1, U2, V, and W.
- (2) Maddock Drop Zone

c. Quarterly.

- (1) Training Areas A3, B, C, H, L, M, N, O, P, Q, R and S.
- (2) Ranges 1,2,6,7,8,9, and 10.

d. Semi-Annual.

- (1) Training Areas D1, D2, D3, D4, D5, and E1.
- (2) Range 12.
- (3) Pine Ridge Rappel/Mountaineering Site.

e. Annually.

- (1) Training Areas F, G1, J1 and J3.
- (2) Bataan Bayonet Assault Course.
- (3) Verdun NBC Site.
- (4) Slide for Life.
- (5) Bridges.
- (6) Beamwalk.

2. Directorate of Housing and Public Works (DHPW) will inspect the following, annually, prior to training:

- a. Anzio Obstacle Course.
- b. Beam Walk.
- c. Bridges.

- d. Slide for Life.
- 3. Range Control personnel will inspect each training area within one week prior to a unit occupying the area and after a unit departs an area. The firing ranges will be inspected with the requesting unit when they occupy and prior to the unit departing the range after firing.

Figure G-9, RANGE INSPECTION CHECKLIST



## **DUD REPORT**

1. DATE/TIME:\_\_\_\_\_
  2. LOCATION:\_\_\_\_\_
  3. NUMBER OF DUDS FOUND:\_\_\_\_\_
  4. SUSPECTED TYPE:\_\_\_\_\_
  5. HOW MARKED:\_\_\_\_\_
  6. PERSON MAKING REPORT:\_\_\_\_\_
    - a. NAME:\_\_\_\_\_
    - b. UNIT:\_\_\_\_\_
    - c. TELEPHONE NUMBER:\_\_\_\_\_
  7. PERSON WHO KNOWS LOCATION OF DUDS:\_\_\_\_\_
    - a. NAME:\_\_\_\_\_
    - b. UNIT:\_\_\_\_\_
    - c. TELEPHONE NUMBER:\_\_\_\_\_
  8. RANGE CONTROL PERSON RECEIVING REPORT:\_\_\_\_\_
- REMARKS:\_\_\_\_\_

## MEDEVAC REQUEST

1. DATE/TIME:\_\_\_\_\_
2. REQUESTOR:\_\_\_\_\_
- a. UNIT:\_\_\_\_\_ b. TELEPHONE:\_\_\_\_\_
3. LOCATION OF INCIDENT:\_\_\_\_\_
4. LOCATION OF PICK-UP:\_\_\_\_\_
5. KNOWN HAZARDS:\_\_\_\_\_  
(telephone wires, power lines, etc.)
6. HOW SITE IS MARKED:\_\_\_\_\_
7. TYPE OF ACCIDENT:\_\_\_\_\_
8. NUMBER OF CASUALTIES:\_\_\_\_\_
9. NATURE OF CASUALTIES:\_\_\_\_\_
10. SPECIAL EQUIPMENT NEEDED:\_\_\_\_\_
11. COMMUNICATIONS AVAILABLE:\_\_\_\_\_  
(radio frequency, call signs, phone number)

## APPENDIX H

### LANDING ZONES

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<u>LANDING ZONE</u>	<u>AREA</u>	<u>GRID</u>
IADRANG VALLEY	L	WL 779813
VALLEY FORGE	L	WL 767798
WILDERNESS	R	WL 759773
SHILOH	R	WL 754772
TRENTON	P	WL 755760
KHE SAHN VALLEY	N	WL 787803
TET	N	WL 784801
ASHAU VALLEY	N	WL 781794
HUE	S	WL 777783
MONTERREY	C	WL 764755
DA NANG	B	WL 798786
LEXINGTON	B	WL 796784
NEW GUINEA	K	WL 787778
CONCORD	K	WL 783772
YORKTOWN	K	WL 791774
CHIPPEWA	Z4	WL 816797
SAMAR	Z5	WL 809788
TICONDEROGA	Z6	WL 811778
REMAGAN	W	WL 801775
MAFFIN BAY	T	WL 801765
OMAHA	Z3	WL 825805
BUFFALO	Z2	WL 835809
GUARDIAN	Z1	WL 847805
SANTIAGO	CS	WL 823747
LUZON	J3	WL 848824