

Department of the Army
United States Military Academy

USMA Reg 385-11
West Point, New York 10996-5000

xx June 20xx

SAFETY

RANGE AND TRAINING COMPLEX REGULATION

MABS

FOR THE SUPERINTENDENT:

OFFICIAL:

COL, GS
Chief of Staff

/ original signed /

LTC, AG
Adjutant General

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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.

* This regulation supersedes USMA 385-11 dated 1 June 1998

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Chapter One Command Responsibilities

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 during live-fire exercises and training being conducted in maneuver areas.

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 at West Point, NY.

Section II Responsibilities

1-3 Garrison Commander

- a. 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 September 8, 1995. The Superintendent, USMA, is the approving authority for deviations resulting from range safety issues which reduce a Surface Danger Zone (SDZ) IAW AR 385-63.
- c. Ensure that subordinate activities accomplish assigned tasks.

1-4 Commander, 1st/1st IN, S3/Directorate of Plans, Training, and Mobilization (DPTM), 1st/1st INF

- a. Receive, formulates and effect the necessary changes to this regulation and the Range and Training Area Map.
- b. Advises the Garrison Commander and the Range Project Review Board (RPRB) on matters related to the training complex.
- c. Responsible for the day-to-day operation of the training complex.
- d. Supervises S3/DPTM and Range Control in the execution and enforcement of this regulation.
- e. Program the annual Range Control budget.
- f. Notify appropriate agencies of range firing and danger areas.
- g. Develop programs and policies that ensure safe range operations.
- h. Coordinate the Range Modernization Program, and support of the training complex with appropriate USMA agencies. Ensure priorities are established and work coordinated with the Garrison Commander, other MADs, and DHPW.
- i. 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.

- j. Decides whether to halt or approve pyrotechnics based on fire hazard indicators as stated in Chapter 5 of this regulation.
- k. Responsible for the administration and operation of all keys and Range Control personnel.

1-5 Range Project Review Board:

- a. CDR, 1-1 IN serves as the President of the Range Project Review Board (RPRB).
- b. Establish and review priority listing of range construction project IAW USMA Live Fire Training Investment Strategy (TIS) and Range Development Plan.
- c. Oversee the development of the Range Complex Master Plan and ensure all approved range projects are included for submission to the Department of the Army Sustainable Range Program (SRP) Conference that convene semi-annually.

1-6 Commandant of Cadets:

- a. Be responsible for the scheduling of all West Point ranges and training areas from 15 May to 15 August annually with the S3/DPTM, 1st/1st INF, DMI, and Range Control.
- b. Responsible for providing current written training calendars to the S3/DPTM, 1st/1st INF, Range Control, and the Adjutant General Post Bulletin. Ensure that all training activities, weapon 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, Combat Pistol Team, Close Combat Team, Skeet Team, etc. forward requests through S3/DPTM, 1st/1st INF, Range Control for use of all ranges and training areas.
- d. Submit requested maintenance, repair, new mission requirements and modernization within the training complex with to the S3/DPTM, 1st/1st INF. The RPRB will be used as a forum to ensure priorities of work are clear.
- e. Responsible for terminal guidance (DMI, CST HQ's) for aircraft; after the aircraft has reported to Range Control for air traffic control for cadet summer training activities, in coordination with the S3/DPTM, 1st/1st INF and the Air Force Liaison Officer.
- f. Provide Range and Training Complex vision through the Director, Military Instruction to the RPRB.
- g. Ensure the cadet clubs and facilities/ranges used by cadets operate IAW this regulation.
- h. Schedule pre-CST meeting with the Department of Military Instruction (DMI) and USMA Range Management Officer to discuss CST issues and procedures for range scheduling and task force support.
- i. Notifies appropriate agencies of range firing, aircraft training, and danger areas during CST 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 Range Management Officer

- a. Supervises Range Control personnel.
- b. Validate and schedule requests for the use of the range and training complex.
- c. Conduct incoming unit safety briefing and provide range certification to the OIC and RSO's.

- d. Provide units and activities using the training complex with an environmental briefing ICW Integrated Training Area Management (ITAM) Project Manager.
- e. Advise the S-3, 1-1 IN/DPTM of training complex requirements and problems.
- f. Operate Range Control during all firing and hazardous training.
- g. Inspect all ranges during operations for safe operating procedures, proper medical coverage and maintenance IAW the checklist at Appendix G, Figure G-7.
- h. Conduct periodic checks of the Range and Training Complex IAW the checklist at Appendix G.
- i. Immediately order "Cease Fire" when a safety violation is detected. Advise the S3, 1-1 IN/DPTM of safety violation(s).
- j. Authorize the resumption of firing after safety deficiencies are corrected or delegate such authority to Range Control personnel following a "Cease Fire."
- k. 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 violations of this regulation.
- l. Submit supply requests through CDR, HHC 1-1 IN and work orders through DHPW Customer Service counter.
- m. Immediately inform the S3, 1-1 IN/DPTM and the USMA Safety Office (938-3717) of accidents and other serious incidents occurring within the training complex.
- n. Maintain and issue keys to all barriers, gates, and facilities within the training complex.
- o. Perform maintenance on the training complex in conjunction with DHPW.
- p. Maintain UXO report at Range Control and forward an annual report to the Chief, Environmental Division, DHPW, by 31 December.
- q. Maintain a record of materials and labor used on each project.
- r. Issue range support equipment necessary to operate ranges.
- s. 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.
- t. Be responsible for airspace management control throughout the year (to include cadet summer training) ICW the USMA 2nd Aviation Detachment, USMA AFLO, and DMI Aviation Branch representative.
- u. Record use of Restricted Airspace R-5206 on the form located in Appendix G.
 - l. Requisition supplies and coordinate all work orders necessary for the maintenance and improvement of the training complex.
- v. Notify Provost Marshal Office (PMO) Physical Security Section, 72 hours in advance, to coordinate for inspection of temporary field ammunition storage sites.
- w. 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.
- x. Coordinate with Explosive Ordnance Disposal (EOD) for annual clearance and clearance after summer training of all impact areas IAW AR 85-63, TM 9-13-206, and AR 75-
- y. Responsible for the maintenance, operation, and scheduling of Camp Natural Bridge, Camp Buckner and Lake Frederick training areas.
- z. Decide whether to cease training if ranges or activities are unsafe. Consult with unit commander/OIC before training may resume.
- aa. Survey and inspect all telephone installations to determine operability not later than the first day of May each year. Submits telephone requirements to Directorate of Information

- Management (DOIM), in support of Cadet Summer Training, ten days before it is needed.
- bb. Identify and report telephone outages in the Range and Training Area to the DOIM telephone trouble desk at 938-3911 for repair.
 - cc. Submit a local service request to the DOIM for new requirements, changes and/or moves.
 - dd. Operate the Big Game Hunt Control Center in-conjunction with DHPW, DCFA, (CRD) and PMO, IAW this regulation and USMA Regulation 215-5; Morale, Welfare, Recreation, Hunting, Fishing, and Trapping.

1-8 Provost Marshal

- a. Conduct routine security checks of the training complex 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 USMA roadways 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. During Big Game Hunting Season conduct security patrols and enforces all Federal, State, and post wild game and fishing laws IAW USMA Regulation 215-5, Morale, Welfare, and Recreation, Hunting, Fishing, and Trapping.
- e. Ensure that all unauthorized persons found inside the posted areas are detained and turned over to State and local law enforcement agencies.

1-9 Directorate of Community and Family Activities (DCFA)

- a. Supervise designated installation recreational areas (Community Recreation Division [CRD]). CDR, 1-1 IN retains the authority to supersede and/or 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 when approved by Range Control Scheduling. The impact area and Crow's Nest Dud Area (Boundaries: WL84228472 to WL85848496 to WL85168372 to WL84468410) are permanently off limits. The Crow's Nest Dud Area will remain off limits until USMA Safety Office approves its return to a hunting/training area.
- c. Ensure horseback riders are aware of live fire training events occurring inside the Range and Training Complex prior to departing Morgan Farm.
- d. 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.
- e. Provide personnel to augment Range Control during the Big Game Hunt Control Season IAW USMA Regulation 215-5.

1-10 USMA Safety Officer

- a. Provide timely advice to the 1-1 IN regarding training safety.
- b. Recommend measures to correct unsafe conditions.
- c. Reviews this regulation, any planned construction, and/or range modification plans to ensure that all necessary safety measures adhered to.
- 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. 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 semi-annual safety inspection of all ranges and training areas to include, but not limited to: confidence and obstacle courses, rappelling site, water confidence training site, engineer training site, and the bayonet assault course.
- g. Certify training complex ranges and training facilities prior to cadet summer training (CST) NLT 15 May; coordinate work orders for repair with S3, 1-1 IN/DPTM and DHPW.
- h. Perform a safety inspection of Camps Buckner and Natural Bridge in April and September.

1-11 Directorate of Logistics (DOL)

Will operate USMA Ammunition Supply Point (ASP) and provide weapons and other equipment support to training complex.

1-12 Directorate of Information Management (DOIM)

- 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 inside of 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.

1-13 Directorate of Housing and Public Works (DHPW)

- a. Support the training complex priority of work ICW CDR, 1-1 IN and S3, 1-1/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 or replacement of the electrical conduit support system. This assistance will be initiated by MSO or work order.
- d. Perform maintenance and repair of permanent facilities within the training complex.
- e. Control USMA Fire Department, coordinating fire fighting measures and assets within the training complex. The fire department will not fight fires in the impact area under any circumstances (AR210-21). Coordinate all actions through CDR, 1-1 IN.
- 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 range road 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. Be responsible for the maintenance of the range fences when work orders are received from Range Control through S3, 1-1 IN/DPTM.

- k. Monitor activities in the training complex to ensure that all activities comply with applicable environmental regulations. Periodically assess the training complex to ensure usage is not degrading the environment.
- l. Develop environmental education programs, ICW the CDR, 1-1 IN, to keep training complex users informed of environmental issues affecting the training complex.
- m. Certify refueling operations site ICW DHPW, EMD, FP&PD Branch prior to the dispensing or transferring of any fuels on the USMA training complex.
- n. Participate in Range Project Review Board (RPRB).

1-14 Commander, Medical Department Activity (MEDDAC)

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

1-15 Public Affairs Office (PAO)

- a. Periodically publish articles in The Pointer View provided by the USMA 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 any training occurring between 2200 hours and 0800 hours as appropriate.

1-16 Commanders and Officers-In-Charge (Using Units)

- a. Be responsible to the Superintendent, USMA, for safe operation and return of ranges, training areas and other facilities in good condition.
- b. Be responsible for appointing OICs and Range Safety Officers (RSOs) who are thoroughly trained-in, knowledgeable of the training to be conducted, and the weapon systems and/or devices and equipment to be used. Ensure OICs and/or RSOs will confirm their schedule training with Range Control ten days prior to the range(s) and/or training facilities intended use.
- 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, after occupation has occurred.
- d. Commanders conducting training that involve 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 items.
- e. Coordinate with Range Control for an inspection of the training area(s) prior to departure from the training complex.
- f. Policing, repairing, notifying and restoring assigned range and/or training area 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, pyrotechnics and/or storing them while at the USMA, will notify USMA Provost Marshal's Physical Security Office (845-938-4585) 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 USMA Ammunition Supply Point (ASP) which were not turned in and was expended during training.
 - l. Coordinate special support requirements with appropriate agencies as outlined in Chapter 2.
 - m. Brief all personnel on the prevention of maneuver damage and preservation of the environment.
 - n. Ensure OIC and RSO attend Range Control briefing and are certified IAW this regulation.

1-17 Civilian Marksmanship Groups: Officers-in-Charge

- a. Will be administratively and logistically self-supporting.
- b. Organization not enrolled with the Director of Civilian Marksmanship (DCM) must submit a request for enrollment prior to utilizing the ranges. Contact DCM Headquarters, Department of the Army, Washington, D.C. 20314. Submit a copy of DCM enrollment with the initial request for use USMA training complex.
- c. Submit releases for all participating personnel as prescribed in Appendix G.

1-18 Air Force Liaison Officer (AFLO)

- a. Serve as the USMA Air Traffic and Airspace Control Officer.
- b. Ensure units who request using USMA airspace are de-conflicted with any ongoing training and follows this regulation's procedures.

Chapter 2 Administrative and Support Requirements

2-1 Priorities of Use

- a. The following priorities of use are established:
 - (1) United States Corps of Cadets/cadet-related activities.
 - (2) Units assigned or attached to 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 S3/DPTM (938-3007) 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. 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. **Any deviation from this regulation will require approval from the USMA Range Management Officer. All appeals will be directed through Range Control to the CDR, 1-1 IN.**
- 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. USCC will automatically be scheduled as the sole user of the training complex from 01 May through 31 August annually. The intense cadet-training program preclude other units from using any ranges, training areas or facilities during this period unless granted approval from CDR, 1-1 IN. Use of the training complex during this period must be scheduled no later than one week before 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 (Rifle), use of the training complex will be curtailed to permit game management/recreational activity. These dates are typically the third Monday in November until the second Tuesday in December inclusive. Exact dates for hunting season can be confirmed by contacting USMA Wildlife Biologist at 938-3857.
- c. The boats and boat docks vicinity at 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 USMA Range Control. When this occurs, Range Control may put other ranges in a dry (non-firing) status.

2-3 Range Control Scheduling

- a. Requests to reserve USMA Range and training complex by all organizations other than USMA must be submitted on USMA Form 1-249-R (Appendix-C), prior to the lock-in dates specified in paragraph 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 an advanced copy is encouraged when requests must be routed through lengthy command channels.
- c. Contact may be made by:
 - (1) Telephone: DSN 688-3930/8557 or Commercial (845) 938-3930/8557
 - (2) Writing: Commander, First Battalion, First Infantry
United States Military Academy
ATTN: IMNE-MIL-PL-RC (Range Control)
West Point, NY 10996-5000
- d. All written requests must be submitted on USMA Form 1-249-R (See Appendix C) 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 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 and training areas. All Cadet activities are obligated to 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 0600 to 2300 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 training complex facilities be utilized without the written permission from Range Control.
- 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, 938-3930/8557, and coordinate a reconnaissance visit.

2-4 Deviations

- a. All requests for deviations of this regulation must be submitted through command channels in writing to the CDR, 1-1 IN, 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 Range Control IAW AR 385-63. The USMA Safety Office will be notified when these modifications to the range(s) or training areas are approved.

- b. A request for deviations will be approved in writing only. This document must be present during training.
- c. Requests for deviations concerning the security of arms, ammunition, pyrotechnics and/or explosives will be routed through the USMA Provost Marshal to the S3/DPTM, 1-1 IN.
- d. Request for deviations must be submitted a minimum of ninety-days prior to the desired date of training.

2-5 Cancellations

- a. Confirmed reservation must be cancelled through Range Control. Due to the high demand to train at USMA and the limited number of ranges and training areas, all cancellations must be made at least seven working days prior to the organization schedule training 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. Subsequent violations will result in a letter being routed through command channels notifying the user that training privileges have been rescinded.

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 405-80, paragraph 4-3 authorizes the use of the 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/DPTM, 1-1 IN.
- 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 sixty days in advance to allow for proper staffing and coordination.
- c. Hunting, fishing, and trapping on the training complex are regulated by USMA Reg 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 listed 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 bike trails. Range Control and the CDR, 1-1 IN ICW 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 31 August based on training and safety requirements by the CDR, 1-1 IN and Range Control ICW DCFA.

- e. Swimming inside 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 has been granted. 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 Reg 109-5 and USMA Daily Bulletin for active training ranges and danger areas before beginning their exercise.
- f. Personnel using recreational areas within training complex will be governed by the safety procedures contained herein, particularly as they apply to restricted areas, danger areas, ranges, and barriers.
- g. Under no circumstances will personnel other than Range Control and authorized Explosive Ordnance Disposal (EOD) members enter the impact areas without the written permission from the CDR, 1-1 IN. The USMA PAO will be notified by Range Control of all EOD operations.
- h. The CDR, 1-1IN may withdraw privileges of using the training complex from any person or organization that willfully disobeys rules and regulations prescribed for the range and training areas, 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 91W with aid bag, litter, radio communication, and evacuation vehicles. The unit will provide these personnel and resources.
 - (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. (Note: 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: Units will furnish and determine their medical requirements (91W or Combat Lifesaver personnel) for the range and/or facilities utilized IAW this regulation.
- 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 91W 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, field artillery, MK19): Qualified 91W medical personnel and equipment only.
 - (3) Rappelling: Qualified 91W medical personnel and equipment only.
 - (4) Water Confidence Training: Qualified lifeguard with water safety certification and qualified 91W medic.

- (5) Marne Confidence Course: Qualified 91W medical personnel and equipment only.
 - (6) Anzio Obstacle Course: Qualified Combat Lifesaver with equipment.
 - (7) Lundy's Lane Leader's Reaction Course: Qualified Combat Lifesaver with equipment.
 - (8) Maddock DZ (during air operations): Qualified 91W medical personnel and equipment only.
 - (9) Civilian gun clubs activity 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) 938-4004/5169 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 can only support one range (no exception).
 - (2) Injuries and/or illness requiring immediate emergency support will be reported to the KACH ER and location 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) Communication: 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 FM 46.70

- (b) KACH ER frequency is 150.7 UHF
- (c) KACH ER telephone number is (845) 938-4004/5169

2-9 Vehicle Traffic

- a. The maximum speed for tactical vehicles (including HMMWV 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 State 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. New York State law strictly prohibits driving military vehicles on the shoulder of the road.
- c. The use of the Fort Montgomery/Mine Torne Road entrance and Bull Pond by military vehicles larger than HMMWV and GSA/Commercial 2.5 ton trucks is prohibited.
- d. Vehicles transporting munitions while on post will have two types of fire extinguisher Classes B-C. Provisions of TM 9-1300-206 and USMA Regulation 75-1 apply to movement of munitions.
- e. During Cadet Summer Training the S3, CST will brief the Task Force S3, S4, Support Platoon Leader, and the Commander of transportation organization concerning the approved training and traffic routes for military vehicles.
- f. Maximum speed when transporting munitions is IAW ASP SOP and appropriate TM's and FM's.
- g. Vehicles transporting Class A and B munitions will display the appropriate US Department of Transportation Symbols IAW DA PAM 385-64. For on-post movement, fire symbols are to be used IAW USMA, Ammunition Supply Point 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 not authorized on the USMA Range and Training Complex.
- j. Privately owned vehicles (POVs) are prohibited on ranges and training areas during training. The OIC/NCOIC may use designated POV parking areas inside the training area, if one is not available they should contact Range Control to get permission to designate a suitable parking area.

2-10 Latrines

- a. Portable toilets may be emplaced at the using unit's expense. USMA POC for contracting portable toilets is the Director of Contracting (DOC), customer service representative at (845) 938-4763. The use of flammable materials or devices within or near the latrines is prohibited. The use of field latrines, urinals, etc., is expressly prohibited.

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, unit(s) will contact USMA Hazardous Material Branch on how to properly dispose of liquid waste. 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. Contact USMA Hazardous Material Branch on proper disposal.
- 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 Cutting. All building materials, tree cutting, shrubbery, etc., will be deposited in the Transfer Point 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 originally drawn.
- f. Powder. Powder residue burning will be conducted in the burn pan at Range 2 and in accordance with USMA Reg 200-3, DOL's Hazardous Material Office, USMA Fire Department, and Range Control instructions. Before burning residue all units will contact the DHPW Environmental Management Division (EMD) at (845) 938-3224. Units conducting powder burning must assign two POCs who will be responsible for proper management of the burn residue. The EMD will provide POCs with instructions, containers, and labels for storing the waste. Units will contact the EMD, Solid Waste Management Branch at (845) 938-4074 when containers are full and/or training is completed for removal of the waste.

2-12 Open Fires

- a. Open fires are prohibited on ranges and training areas except for controlled burning points, which require a fire permit from 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 1204. 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 into the ASP per Chapter 4 of this regulation under the Ammunition Amnesty Program. Contact West Point ASP Office at (845) 938-3216/2914 or DSN: 688-3216 for further information.
- (5) CLASS VI- Post Exchange is located in building 1204.
- (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, and tents.
- (7) CLASS VIII-NONE.
- (8) CLASS IX-NONE.
 - a. Billeting: Camp Buckner and Camp Natural Bridge
 - (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 facility manager (Range Control), 1-1 IN controls these facilities and can be reached at (845) 938-2625.
 - b. Mess Support: All mess support is arranged through S-4, 1-1 IN.
 - c. Water: A water supply point is located in the vicinity of WL79387827. Before 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 by calling (845) 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 not available for loan.
- b. All off-post units will provide their own paper targets and scorecards.
- c. West Point has no Training Aid Support Center (TASC). 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, wells, cisterns and mine excavations.
- 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, and 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 Forester.

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 Resource Branch, and DHPW.
- (2) Rattlesnakes at West Point are considered endangered species by New York State. Disturbances of rattlesnakes are strictly prohibited for the protection of the snake and humans. Violation of this is considered a felony. (A portion of training area "T1" is designated as a training exclusion area and a protected habitat of the rattlesnake.) Rattlesnake sightings should be reported immediately 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 and Area K loading dock area. The USMA Environmental Office will review refueling procedures and certify them before 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 (845) 938-3001.

- f. Spills. Report all emergencies to the USMA Military Police/Fire Department at 911 or (845) 938-3333. Report all spills immediately to the USMA Fire Department and the Environmental Management Division at (845) 938-3224. Units will maintain spill response materials at all locations where chemicals are stored or used. The United States Military Academy receives its drinking water from lakes in the training areas. Units will take precautions to ensure spills or wastes do not contaminate any water body in the training areas.

2-16 Range Gates and Keys

All gates are secured with standard Range Control locks and will always be locked when the facility is not in use. Keys to appropriate locks will be issued to authorize users (OIC's and RSO's of Ranges, DHPW, Maintenance Shops, Water Treatment Plant, etc.) on a temporary hand receipt for up to three working days. Personnel with regularly scheduled use of a training area of facility exceeding three days may sign out a key on a semi-permanent hand receipt, which will be updated every six months. Individual(s) who sign for and fail to return a key and fail to lock a gate upon completion of use of a training area or facility, will have their key sign-out privileges suspended.

2-17 Control of Spectators and Military Family Member (MFM)

- a. Spectators frequently come to small arms demonstrations, training courses, competitions and other types of firing. Normally they must stay behind the firing lines in areas designated by the OIC. 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. OIC's and RSO's or ARSO's 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 the designed areas.
- c. All MFM or civilians engaged in firing, training or active use of the training complex must execute a Release from Liability (See Appendix-C). 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 and organizations intending to use FM communications at West Point must request the required number of frequencies from the Director of Information Management (DOIM), the Frequency Manager at (845) 938-7371. 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-C). Frequencies, which have been requested, will be provided by DOIM.
- b. Communications wire must be policed up before a unit clears an area. No communication wire may be laid across a public road, or within 500 meters of a helipad.

2-20 Model Airplanes

The Director of Cadets Activities, Academic Club, American Institute of Aeronautics (AIAA)/American Helicopter Society (AHS) Club, a cadet organization, will be permitted to fly model aircraft at the Maddock 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 (TEA)

These areas are clearly marked on the West Point Range and Training Area map by colored 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 inside of 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 Range and Training Area Complex.

2-23 Privately Owned Vehicles (POV's)

- a. POV's are prohibited from the range and training complex except as noted below:
 - (1) On public roads: NY Rt. 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. POV's 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 curtail weapons firing during periods of limited visibility. When Range Control determines the visibility to be adequate, they will allow units to resume firing.
- c. Firing on Range #11 (Normandy) will not be permitted when lightening is in the vicinity. The power to the tower, targets, and computer must be shut off. Range Control will inform units when they may resume firing.

Chapter Three

Range Operation Requirements

3-1 Officer-in-Charge and Range 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 range OIC/RSO developed by the battalion/unit to which they are assigned. The Battalion Commander and/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 occur 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 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 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 systems 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 responsible for overall range safety.

3-3 Commander, Using Unit:

- 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 ARSO's 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):

- 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, hang fires, and cook offs.
- e. Be totally familiar and knowledgeable of the weapons system and training being conducted.

3-5 Range Safety Officer:

- a. Before firing will ensure:
 - (1) Weapons are properly positioned.
 - (2) Only authorized ammunition is used, to include proper shell, fuse, charge combination, and fuse 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 working days prior to use. The OIC must contact Range Control NLT 72 hour's prior to use to confirm scheduling 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 TM's 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 OIC's of units using the 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 (Daily Staff 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.
- h. Prior to firing, the OIC will assign an NCO to be responsible for control of the ammunition point.

3-7 Range Inventory:

- a. Before firing commences the OIC conducts 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). OIC's 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 shell fuse combinations are about to be used.
- h. Ensure ammunition to be fired is within prescribed safe temperature limits.
- i. Ensure all firing precautionary measures have been taken.

- j. Brief all personnel concerning:
 - (1) Range limits.
 - (2) Solider movement on the range.
 - (3) Procedures for directing a "CEASE FIRE" when unsafe conditions are observed.
 - (4) Low flying aircraft procedures (see paragraph 9-4).
 - (5) Personal protection (Kevlar helmet, earplugs, etc.).
 - (6) Dud identification and safety.
 - (7) Central weapons clearing point.
 - (8) Ammunition point.
 - (9) Weapon 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 steady red lights on the left and right range limits during reduced visibility periods. There will also be a blinking red light placed on the flagpole 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 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 authorized use.
 - (3) USMA Regulation 385-11, Range Regulation.
 - (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 range limits marker are indicated by white and black panels visible to all firers.
- t. Receive permission from Range Control to use restricted air space (R-5206) for Ranges 2, 12, and for demolitions in Training 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/or crew-served weapons ranges without permission of the OIC or RSO.
- c. The OIC maintains constant observation of the firing line at all times during range firing.
- d. "CEASE FIRE" is called immediately in the event of safety violation, low flying aircraft fires, or other exceptional circumstances.
- e. Materials are 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 the command "CEASE FIRE", all firers will immediately place their weapon on safe. If a "CEASE FIRE" is ordered by Range Control when a safety violation is detected, only the Range Operations Specialist, NCOIC Range Control, or Range Operations Controller on duty at the time may lift the "CEASE FIRE".
- i. On Ranges 2 and 12 artillery and mortar impacts are to be observed to ensure projectiles land within the prescribed impact area.
- j. Misfires are removed from the weapon only on command of the OIC/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 of 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 completion.
- c. The red danger flag is lowered and when the inspection is complete, the blinking red lights turn off.
- d. The number of duds and their approximate location are reported to Range Control.
- e. All brass, packing material, and any unfired ammunition are returned through normal supply channels.
- f. All ranges are returned to their original condition, a police check is conducted, 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 before 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 (See paragraph 2-11-f) of all unused 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 2-11). 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 propellant 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 that 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 propellant will be ignited by lighting the last bag and placing it on the propellant. Matches, cigarettes or lighters will not be used to directly ignite the propellant increments. A lag tip drenched in diesel fuel will be ignited and used to ignite the propellant. Safety personnel performing the destruction will withdraw to a safe distance after igniting the starting material and will have:
 - a. Two shovels.
 - b. One 5-gallon water can.
 - c. 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 and/or swept up daily after the powder increments are burned. This residue will be deposited in a 55-gallon drum marked "Hazardous Material" 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. See section 2-11 for additional requirements for burning excess propellant.
- h. Munitions may only be stored on ranges IAW AR 385-63, AR 385-64, AR 190-11, and DA Pam 385-64. The range OIC will ensure that no one departs the range in unauthorized possession of ammunition.

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 Section 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 working days prior to use. The OIC must contact Range Control NLT 72 hours before 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 (Daily Staff Journal). Ensure every change in status of the site/course is accurately recorded. Indicate the times the site is occupied; training begins, when an incident occurs and 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 personnel concerning:
 - (1) Soldier movement within the limits of the site/course site.
 - (2) Personnel 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 this 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 before the change.

3-16 After training is concluded the OIC will:

- a. Notify Range Control of completion.
- b. Police and store and/or return all equipment to its proper location. 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 Special Instructions

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.

All personnel involved in weapons firing, explosive and demolition training will wear hearing protection.

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. Range Control and the Provost Marshal will enforce these guidelines. Anyone may report violations to CDR, 1-1 IN, Provost Marshal Office or Range Control.

3-20 Authority of Range Control Personnel.

Range Control personnel are responsible for the enforcement of the range regulation. Their authority inside of the training complex is indisputable. An organization experiencing a difference of opinion with Range Control personnel will comply with guidance given by the Range Control representative. Issues not favorably resolved are appealed in turn to the Range Management Officer and the CDR, 1-1 IN. Range Control will follow all safety procedures while inspecting the range. Range Control personnel will identify themselves to the gate guard and Range OIC/RSO when arriving at a range or training area occupied by a unit.

3-21 Target Mechanisms.

At no time will anyone, other than Range Control personnel, attempt to repair an automated target mechanism or handheld controller. Notify Range Control of the firing point and the distance where the bad target mechanism is located.

3-22 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 an exception to this policy from Range Control.

Chapter Four
Safety Training
(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 before leaving the range to include when using blank ammunition.
- b. On the 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.
- c. Weapons will be carried in such a manner that the muzzle of the weapon is always pointed up and down range.
- d. 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.
- e. 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.
- f. 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.
- g. Blank adapters must be used when firing blank ammunition. Only standard issue adapters may be used.
- h. During prone firing exercises, left-handed firers will use brass deflectors or be positioned on the right hand side of the firing line.

4-2 Weapon Malfunction or Stoppage.

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.

4-3 Unexploded Ordnance Reporting.

1. Upon discovering a known or suspected dud, take action to ensure it is not handled or moved in any manner.
2. Mark the location and make a dud report to Range Control (See Appendix -C).
3. Be prepared to provide a guide for either Range Control or EOD.

4-4 Ammunition Handling (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 of 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 Hand Grenades).
- 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 unexpected 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 DA Pam 385-64. 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) ammunition of any type without official approval from the USMA Range Control and CDR, 1-1 IN.
- c. Tracer (during periods of increased fire hazard).
- d. 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 unexpected 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.
 - (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 Chapter 5) and report the fire to USMA Fire Department and 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 date-time-group of use. The RSO will ensure that the tear gas is not employed under the following conditions:
 - (1) Within 500 meters of reservation boundaries.
 - (2) Within 500 meters of public highways.
 - (3) Within 10 meters of personnel when detonating burning grenades.
 - (4) Within 550 meters of Cottage at Bull Pond, or other recreation sites.
 - (5) Within 550 meters of a live-fire range.
 - c. Units desiring to conduct gas chamber exercises should schedule the gas chamber IAW USMA Range Control scheduling procedures.
 - d. Range Control may limit the use of Chemical Agents and pyrotechnics at anytime.

4-8 Unexploded Ordinance

- 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 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). See para 2-11(f) for powder burning requirements.
- 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 Resource Conservation and Recovery Act (RCRA) permit and can 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 and 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 the 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. USMA Ammunition Officer will be advised of 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 the rear of Range Control headquarters Bldg. 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 (845) 938-3216 or DSN: 688-3216 for further information.

4-12 Laser Operations.

- a. Firing/laser positions will be requested by eight 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 18, AR 385-63.
 - (2) Will ensure that unauthorized personnel are not allowed on the laser range or field artillery observation point.
 - (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 Five Emergency Procedures and Reports

Section I General

5-1 Fires.

This section applies to procedures for overall woodland fire prevention and control program are the responsibility of USMA Engineer to serve as the Fire Marshal, in conjunction with USMA Fire Chief.

- a. All fires, regardless of size or intensity, will be reported as soon as they are observed to the first call the USMA Fire Department (845) 938-3001 and then call Range Control (938-3930) or 1-1 IN SDNCO (938-8846).
- b. Personnel will not enter designated impact areas or areas in which the presence of munitions of any type is believed to be.

Section II Responsibilities

5-2 Fire & Emergency Services (F & ES).

They are responsible in coordination with USMA Forester to determine appropriate fire control strategies. Woodland fires that threaten life property will be extinguished.

5-3 Engineer Platoon, HHC, 1/1 IN.

This platoon is designated as a Fire Team when needed. The Engineer Platoon when activated by USMA Engineer ICW CDR, 1-1 IN, 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.

They will provide fire bucket support to help extinguish woodland fires as needed.

Section III Administrative

5-5 Fire Reporting Procedures

- a. Call 938-3001 or 911 (Fire Department).
- b. During Cadet Summer Training notify the Fire Station #3 (845) 938-5197 and Range Control (845) 938-3930.
- c. 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.
- d. 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-X; Down range 300 meters).
- e. Send a guide to the nearest entrance road.
- f. Using troop support to attempt to extinguish the fire.

- g. Suspend training only if necessary to avoid a major fire or hazard.

5-6 Organization

- a. The F & ES will man and equip Fire Station #3, 938-5197 located off of State Highway 293 (next to Range Control). The F & ES fire station at USMA will serve as an alternate fire control center, 938-3001/ 3151.
- b. 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 woodland 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, 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, 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 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, leatherwork gloves, pistol belt, and a canteen of water. DHPW will provide equipment, less canteens and pistols belts.

5-8 Equipment

- a. 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 to request helicopter firefighting support.

5-10 Communications

- a. 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 radios sets may be obtained by contacting the Signal Section, Camp Buckner, 938-4307.

5-11 Burn Index

- a. USMA Fire Department maintains a forest fire danger station on Route 293 (next to Range Control HQ), Bldg. #1400. 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 the 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 938-3930/8559.

- 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. USMA Engineer, upon receiving from the Fire Chief, will recommend munitions restriction measures to Range Control.
- b. USMA Engineer and Range Control will resolve restrictions in the training areas during hunting seasons.
- c. In the summer non-duty hours, and in case 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, DHPW Engineer, 938-3415

Garrison Commander, 938-2022

Range Control, 938-3930/8559

Public Affairs, 938-3808

Provost marshal, 938-2403

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

Natural Resource Office, 938-2314

5-14 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. The CDR, 1-1 IN 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 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 5-14b(3) above.
 - (2) If during cadet summer training months also notify the Commander, CFT.

5-15 MEDEVAC Requests

The USMA does not have an organic MEDEVAC capability to support the training complex; therefore units and organizations will plan medical evacuation with organic assets. In extreme circumstances, KACH medical personnel will make the determination to MEDEVAC a patient(s) at the hospital. Under no circumstances will units with injured individual(s) request Aerial MEDEVAC from Range Control, immediately transport patients by FLA or other means of vehicular transportation.

5-16 Serious Injuries and Incidents

When an accident or serious injury occurs during the course of training, the OIC will:

- a. Cease training immediately.
- b. Arrange for medical personnel on site to evaluate the extent of the injury 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 to 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.

- (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, 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, Maintenance Division, and 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.

Chapter Six

Training 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. 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.
- c. All users of the training complex will ensure that the proper uniform is worn, regarding safety as prescribed by applicable ARs, TMs, and FMs when conducting training inside the RTC. The unit commander or his/her designated representative will prescribe the appropriate uniform to be worn dependent on the type of training that is being conducted.
- d. Refueling of vehicles will occur only in the approved areas of Camp Natural Bridge and Training Area K, adjacent to State Highway 293. See paragraph 2-15e.
- e. Maintenance facilities are limited to the work ramp in Training Area- K, co-located with a building suitable for dispatch operations and a maintenance bay at Camp Natural Bridge.

6-2 Range Risk Assessment

- a. On 8 September 1995, 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 Zone (SDZ) dimensions when terrain, artificial barriers or other factors make smaller SDZ safe.
- b. On 6 June 1997, the Garrison Commander approved the Range and Training Complex Risk Assessment prepared by USMA Safety Office. Danger area changes for each range and/or training area has been noted in this chapter. A complete list of risk assessment is at Appendix F.
- c. The Superintendent, USMA, waived three risk assessment issues on 6 June 1997. 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 Hand Grenade

- a. Description. Range #1 is a hand grenade facility consisting of four throwing bays for live hand grenades and a distance-accuracy course for practice hand grenades (See Appendix-B).
- b. Location. WL84838063. This range is accessed off State Route 9W, south of State Route 218.

- c. Range #1 Authorized Weapons: Hand Grenades
- d. Range #1 Authorized Ammunition:
 - (1) M67 Fragmentation Hand Grenade
 - (2) Practice Hand Grenade
- e. Throwing Bays: There are four concrete throwing bays for live detonation of hand grenades.
- f. Targets types: Stack tires (live-bay) and E and F-type silhouettes (practice course).
- g. Range Flag. Entrance from State Route 9W.
- h. Safety Limits. 150-meter radius from throwing bays.
- i. Danger Area. Training Area Z1
- j. Telephone. (845) 938-2464. Located inside the tower.
- k. Gate Guards. Gate guards are located at the entrance marked by the red guard shack.
- l. All vehicles (military and POV) will be located in parking area near the guard shack.
- m. Mess Area. None.
- n. Special Instructions.
 - (1) Steel or ballistic (Kevlar) helmets, flak jacket and hearing protection will be worn by all personnel within the surface danger zone.
 - (2) Gloves or ponchos will not be worn during live hand grenade throwing.
 - (3) Vehicles will not be permitted within the Surface Danger Zone (SDZ) when throwing of live hand grenades.
 - (4) Practice grenades will not be used in throwing bay area.
 - (5) If a live hand grenade fails to detonate, training with live grenades will cease, personnel evacuated and Range Control notified immediately.

6-4 Range #2 Field Artillery

- a. Description. This is a field artillery range consisting of four firing points (See Appendix-B).
- b. Location. Range #2 is located at WL83428129. This range can be accessed from State Route 218.
- c. Authorized Weapons.
 - (1) 105mm Howitzer.
- d. Authorized Ammunition.
 - (1) 105mm Shells: HE, HC, and Illumination. Fuze: Point Detonating (PD).
- e. Targets. Armored vehicle hulls, assorted thin-skinned targets, and steel tripod targets in the impact area.
- f. Range Flag. Located at the gated entrance off of State Route 293 to the firing positions.
- g. Safety Limits.

<u>Firing Position</u>	<u>Right Azimuth</u>	<u>Left Azimuth</u>	<u>Min Range</u>	<u>Max Range</u>
105mm	3720 mils	3500 mils	2100 meters	3480 meters

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, fuze, and charge to be used and will be present during firing.

- h. Telephone. (845) 938-3222 located inside of the FA Committee office and the support unit orderly room.
- i. Danger Areas. Training Areas Z2, Z6, E2, and OP McNair.
- j. Range Gate Guard(s). Guards will be posted at the entrance of Range #2 and at the entrance of Mine Torne Road, with the gate closed from all unauthorized vehicular traffic during the conduct of artillery firing. The OIC will also check the status of Range #12 to see if it's occupied or unoccupied.
- k. Mess Area (See Appendix-B).
- l. Vehicles (See Appendix-B).
- m. Special instructions for 105mm howitzer firing.**
 - (1) Firing will only be permitted from 0600 to 2300hrs daily, unless otherwise coordinated through Range Control.
 - (2) The Range OIC will possess a copy and be thoroughly familiar with AR 385-63, the appropriate field and technical manuals.
 - (3) The Battalion Commander will certify both the OIC and RSO.
 - (4) The OIC will ensure each weapon's logbook reflects a current borescope, pullover test and trunnion check IAW the appropriate technical manual.
 - (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.
 - (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 (OA) method. The Safety Officer will:
 - i. Use a second, properly declinated aiming circle for West Point, NY and check safety or lay.
 - ii. Use the second (safety) circle to verify the lay of all weapons. A tolerance of +/- 2 mils will be allowed.
 - iii. Verify the boresight of each weapon daily, before firing and after each move.
 - iv. Verify the emplacement of the collimator and the top scale deflection.
 - v. Verify that all Fire Control Alignment Tests have been completed IAW the applicable weapon's -10.
 - (8) The OIC will ensure that mechanical time fuze round(s) are not fired from Range 2 and that any un-used propellant charges are to be displayed for each round fired.
 - (9) The OIC will fire only center of sector before applying registration corrections or applying MET corrections.
 - (10) The Safety Officer will verify that firing data sent to the guns are within safety tolerances. Safety certified howitzer section chiefs will verify all settings on their weapons before firing.
 - (11) The Safety Officer will verify that firing data sent to the guns is within safety tolerances. Safety certified section chiefs will verify the settings on their weapons before firing.

- (12) The Executive Officer is responsible for ensuring safe practices are followed in ammunition handling, laying for direction and evaluation, and all other operations performed by the firing battery.
- (13) When an error in firing results in a round(s) known or suspected impacting 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.
- (14) The designated powder burning area for Range 2 is located at WL82858124.
- (15) Survey Information. All units will verify their own survey information before firing, regardless of the information in this regulation.
- (16) **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 gun para-pits separating #3 and #4; further located two feet off the west shoulder of blacktop road.
 - c. **Trig Station (PELLI):** 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 tree line in "V" of mountain 900 meters in front of battery position.
- (17) **Observation Area.**
- McNair Observation Post** (see Fig 7-3a): WL 82034 79507 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
- (18) **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 OP McNair: 0491 mils

6-5 Range #4 M16 Zero & Military Pistol

- a. Description. This is a 25-meter zeroing range with 64 points for rifle and pistol.

- b. Location. This range is located at WL82508065, adjacent to Range #5. It is accessible from State Route 293 across from Range Control, with a key.
- c. Authorized Weapons. Weapon firing standard 5.56mm (to include SAW's) or lesser caliber ammunition or weapons requiring a surface danger zone of less than 3000 meters.
- d. Authorized Ammunition. Standard ball, tracer firing is prohibited during periods of increased danger of fire.
- e. Targets. Zero target frames at 25 meters.
- f. Range Flag. Located on the right-hand side of access road off of State Highway 293.
- g. Danger Areas. Training Areas Z2, Z3, D2, D3, and D5 (Artillery firing on Range #2 can occur concurrently when this range (M16 series) is operational because firing points are outside of the surface danger zone.
- h. Safety Limits. Right and left limits of fire markers (red triangles) are posted downrange.
- i. Gate Guards. Units firing will post gate guards at the gated entrance to Range #4 and #5.
- j. Mess Area. Located behind Range #5.
- k. Vehicles.
 - (1) The authorized parking area for military vehicles is the lot between Range #4 and #5.
 - (2) The authorized parking area for privately owned vehicles is located outside of the gated range entrance.
- l. Public Address (PA) system. Located inside tower.
- m. Special Instruction. None.
- n. Telephone. (845) 938-3757 located inside of the range tower.

6-6 Range #5 Automated Field Fire/Machine Gun

- a. Description. This is an Automated Field Fire (AFF) and machine gun (familiarization only) range. This range consists of 16 lanes AFF and 8 lanes for machine gun. Unit must provide qualified tower operator familiar BRM training scenarios (FF-1, FF-2, night fire familiarization, burst fire, machine gun familiarization).
- b. Location. This range is located at WL82388052, adjacent to Range #4 and is accessible from State Highway 293 across from Range Control. A key is necessary for access to this range.
- c. Authorized Weapons. Weapons firing standard 7.62mm or lesser caliber ammunition. Machine Guns M60 or M240 series are authorized only when using the machine gun positions. Machine Guns will not be fired from the AFF firing positions. Bipod and/or traversing and elevation (T&E) mechanisms must be used with the machine guns when using this range.
- d. Authorized Ammunition. Standard ball, tracer firing is prohibited during periods of increased fire danger; inquire at Range Control prior to the start of training.
- e. Firing Points. The AFF has 16 lanes to conduct field fire training, with target located at distances of 75, 175, and 300 meters. The Machine Gun area (familiarization only) has 8 firing points, with targets located at distances of 300 to 450 meters.
- f. Targets. Type "E" and "F" silhouettes.
- g. Range Flag. Located on the right-hand side of access road off of State Highway 293.
- h. Safety Limits. Right and left markers (identified by the large red triangular shape panels).
- i. Danger Areas. Training Area-Z3 and OP McNair. The Superintendent, USMA approved a deviation on 6 June 1997 (reviewed annually) to keep Training Area-E2 and Mine Torne Road open when Range #5 is firing because surrounding terrain masks these areas from

ricochet.

- j. Gate Guards. Units firing will post gate guards at the gated entrance to Range #4 and #5.
- k. Vehicles.
 - (1) The authorized parking area for military vehicles is the lot between Range #4 and #5.
 - (6) The authorized parking area for privately owned vehicles is located outside of the gated range entrance.
- l. Mess Area (See Appendix-B).
- m. Public Address (PA) system. Located inside the tower.
- n. Special Instruction. Ensure there are no personnel occupying OP McNair before firing commences. If personnel are present at OP McNair, they must be inside the bunker. Coordinate times with Range Control and OIC, OP McNair to allow entering and exiting from the bunker.
- o. Telephone. (845) 938-6036 located inside of the range tower.

6-7 Observation Post McNair & OP 5

- a. Description. McNair Observation Post is located at grid WL82037950, at an altitude of 367.6 meters and consists of a concrete bunker, which can be used for observation of fire. OP 5 is located along the ridge in Training Area-H West of Range #11. Other OP's may be selected, however, they must be located outside of the active danger fan and require written approval of the CDR, 1-1 IN. Range Control will be contacted and approval obtained, before any movement either to or from OP 5.

6-8 Range #7 Anti-Armor and M18 Claymore Mine

- a. Description. This range is used for claymores and anti-tank weapons. It has six firing points.
- b. Location. This range is part of the 7-10 range complex and is located at grid WL81708000. It is accessible from State Highway 293 directly across from Range Control. A key is needed to access this range.
- c. Authorized Weapons. M72 LAW, M136 (AT-4), M18 Claymore Mine, MK19, and the 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 firing upon approval from Range Control.
- e. Targets. Vehicle hulls in the impact area.
- f. Range Flag. Located at the entrance off of State Route 293.
- g. Safety Limits. Right and left limits are indicated by the panel markers posted downrange.
- h. Danger Areas. Training Areas-Z4, D1, and OP McNair.
- i. Telephone. (845) 938-6038 located inside of the range tower.
- j. PA System. Located inside of the range tower.
- k. POV Parking Lot. Located on the right side of the range road prior to the guard shack.
- l. Mess Area. None.
- m. Special Instructions. None.

6-9 Range #8 M203 Grenade Launcher & MK19, 40mm Machine Gun

- a. Description. This range is used for firing M79/M203 Grenade launchers and MK19s.
- b. Location. This range is part of the 7-10 range complex and is located at WL81597986. It is accessible from State Highway 293 directly across from Range Control. A key is needed to

access this range.

- c. Authorized Weapons. M79/M203 Grenade Launchers and the MK19.
- d. Authorized Ammunition. All 40mm rounds, except the White Phosphorus, M385 practice round for the MK19.
- e. Firing Points. This range has eleven firing points.
- f. Targets. Vehicle hulls in the impact area.
- g. Range Flag. Located at the Range 7-10 complex entrance NYS RTE 293.
- h. Safety Limits. Right and left limits are indicated by the panel markers posted downrange.
- i. Danger Areas. Training Areas-D1, E2, and Z4.
- j. Telephone. (845) 938-2861 located inside of the range tower.
- k. Gate Guards. Located a gated entrance.
- l. Mess Area. Covered area located behind Range #8.
- m. POV Parking Lot. Located on the right side of the range road prior to the guard shack.

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 grounds winds are in excess of 30 mph.
 - (3) Move down range only upon approval of Range Control and EOD.
- o. PA System. Located inside of the range tower.

6-10 Range #9 Tactical Small Arms (Multi-Purpose)

- a. Description. Range #9 is use to support a variety of cadet firearm clubs. This facility served as the resident FBI field office marksmanship range. Range #9 also support other civilian law enforcement agencies that are authorize to use USMA training facilities.
- b. Location. This range is part of the Range 7-10 complex and is located at WL81547982. It is accessible from State Highway 293 directly across from Range Control. A key is needed to access this range.
- c. Authorized Weapons. Handguns, M16 Series Rifles, M4 Rifle and Shotguns. No automatic firing will take place on this range.
- d. Authorized Ammunition. Only ammunition typically fired in the above authorized weapons is permitted.
- e. Firing Points. This facility can support up to 30 firers.
- f. Targets. Blackwater Bear Target System. The target system is located at a distance of 50 yards from the firing line. Civilian firers will provide all targets and backing materials.
- g. Range Flag. Located at the Ranges 7-10 entrance off of NYS RTE 293.
- h. Safety. Right and left limits are indicated by panel markers posted downrange. Under no circumstances will anyone move forward (east) of the target line. This area is a permanent dud area and is extremely dangerous. No weapons will be loaded unless it is on the firing line. Clearing of weapons is an individual responsibility. Weapons will be pointed in a safe direction and will be carried in a safe manner at all times. All users will have eye and hearing protection. Hearing protection will be used during all firing. Combat lifesaver or an emergency medical technician (EMT) is required before any training can commence. No smoking is allowed on the range.
- i. Danger Areas. Training Areas-Z4 and OP McNair.
- j. Special Instructions. Using military units must get trained on the target system by Range

Control before they will be allowed to use the range. All civilian law enforcement agencies will contact the FBI's West Point field office to received training on the system.

6-11 Range #10 Skeet & Trap

- a. Description. The USMA Skeet and Trap Range is for recreational use by the United States Corps of Cadets, USMA staff and faculty, and other authorized military personnel and their guest.
- b. Location. This range is part of the 7-10 range complex and is located at WL81477980. It is access from Range Control. A key is needed to access this range.
- c. Authorized Weapons. .410 to 12 gauge shotguns only.
- d. Authorized Ammunition. Light target loads- #7.5 to #9.
- e. Firing Points. Firing will take place at designated skeet and trap stations only.
- f. Targets. Personnel using this range will provide their own targets.
- g. Range Flag. Located at the entrance off of State Route 293.
- h. Safety. Right and left limits are indicated by panel markers posted downrange. Under no circumstances will anyone move forward (east) of the target line. This area is a permanent dud area and is extremely dangerous. No weapon will be loaded unless it is on the firing line or at a skeet and trap station. Clearing of weapons is an individual responsibility. Weapons will be pointed in a safe direction and carried in a safe manner at all times. The skeet and trap range has lights and may be used after sunset. Eye and hearing protection will be used during all firing. Combat lifesaver or an Emergency Medical Technician (EMT) is required before any training can commence. No smoking is allowed on the range.
- i. Danger Areas. Training Areas-Z4 and OP McNair.
- j. Special Instructions:
 1. Personnel eligible to use the ranges are defined in AR 215-1, paragraph 6-2. They are:
 - a. Active duty military to include the Corps of Cadets.
 - b. Reserve component personnel.
 - c. Military retirees.
 - d. Authorized dependents (ages 12-18 years old when accompanied by a certified adult).
 - e. DOD civilian employees working at USMA.
 - f. POV Parking Lot. Located at the entrance off of NYS RTE 293.
 - g. 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 two certified persons must be present on the range at all times when this range is firing.
 - b. Minors ages 12-18 must be accompanied by an certified adult and must have a signed parental release form.
 3. All qualified users and guests wishing to use the range will sign in at Range Control prior to proceeding to the ranges. Keys will be issued to Skeet and Trap safety certified personnel only for the range gates and building.
 4. All users will sign a release from liability (See Appendix-C) before using the ranges. This does not apply to cadets participating as part of a cadet

team.

5. Users will police the range of trash and dispose of all shotgun cartridges and clay pigeon residue (large portions only) before leaving the range.
6. Upon leaving the range, the electricity will be turned off and gate locked.

6-12 Range #11 Record Fire Range

- a. Description. Range #11 is a 16-lane automatic target engagement system record fire range. This range is computer-operated and requires the unit to provide a certified tower operator to operate. This range currently operates with three programs scenarios: M16 Record Fire and Mission Oriented Protective Posture (MOPP) and night fire qualification.
- b. Location. This range is located at WL80887901 and is accessible from State Highway 293 between Mine Torne Road and Long Pond. A key is necessary to use this range.
- c. Authorized Weapons. Weapons firing standard 5.56mm or lesser caliber ammunition or weapons having a surface danger zone (SDZ) of less than 3000 meters excluding shotguns. Only semi-automatic fire is authorized.
- d. Authorized Ammunition. 5.56mm.
- e. Firing Points. Sixteen lanes; with targets located at distances between 50 and 300 meters.
- f. Targets. E and F type silhouettes.
- g. Range Flag. Located near gate entrance.
- h. Safety Limits. Right and left limits of fire are posted downrange.
- i. Mess Area. Sheltered area that doubles as a weapon's cleaning point.
- j. Gate guards. Located at the guard shack.
- k. Vehicles. Authorized military parking area is behind the range tower. Authorized privately owned vehicle (POV) parking is located directly inside of the gated entrance off of NYS RTE 293. Vehicles are not permitted south of the man made barrier when artillery is being fired by Range #2 or machine gun firing from Range #5.
- l. Danger Areas. Training Areas-D4, D5, D6, and Z5.
- m. Telephone. (845) 938-4243 is located inside of the range tower.
- n. Special Instructions. Using unit will still have to provide an OIC, RSO, RTO, and four ARSOs to successfully operate the range. Tower commands can be found in Appendix D, FM 3-22.9. Units need to zero their weapons on Range #4 first before utilizing Range #11. It is critical the unit using this range is totally familiar with the provisions and directives of FM 3-22.9. This range provides the user with an automated printout of hits and misses, no scorers are needed (unless the printer is not functioning properly), but coaches are. It is important that the OIC/RSO know which soldier is on which lane? Soldiers should have prior target detection training, before using this range. Movement is not permitted forward of the firing line. When firing is conducted on this range, personnel at OP McNair will be inside of the bunker. The OIC at the OP will coordinate with Range Control to suspend firing to permit movement to and from the OP. All firing will be within respective lanes. No cross firing is permitted.
- o. Public Address System. Located inside of the range tower.

6-13 Range #12 Mortar

- a. Description. Range 12 is a mortar and MK19 firing range with six firing points.
- b. Location. This range is located at WL80997796 and is accessible from Range 11 and Mine

Torne Road, across from Lake Stilwell. A key is necessary to access this range.

- c. Authorized Weapons. 60mm mortar, 81mm mortar, and MK19.
- d. Authorized Ammunition. High Explosive (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. (Range #12 survey data see Figure 6-1).
- f. Target. Vehicle hulls in the impact area.
- g. Range Flag. The flagpole is located near gated entrance.
- h. Safety Limits.

Minimum Range	Maximum Range	Right Limit	Left Limit
575 meters	1508 meters	955 mils	975 mils

- i. Danger Areas. Training Areas-Z6 and E2. The portion of the range road between Ranges #11 and #12.
- j. Telephone. (845) 938-4356 is located inside of the range tower.
- k. Gate Guards. Located at the entrance to Mine Torne Road..
- l. Mess Area. Located right of the range 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 to 2300hrs; unless authorization has been granted by Range Control.
 - (2) The Range OIC will possess a copy of and thoroughly familiar with AR 385-63, FM 3-22.91 (Mortar Gunnery), and FM 3-22.27 (MK19), the appropriate technical manual for the weapon and this regulation.
 - (3) The Battalion Commander will provide to Range Control, written certification of training for the Range OIC, RSO, and the squad leaders.
 - (4) The OIC will ensure that prefire checks and boresighting are accomplished. The weapon's are serviceable IAW with the appropriate technical manual?
 - (5) The OIC will ensure that the weapon logbooks reflect current borescope and pullover test IAW with the appropriate technical manual.
 - (6) The RSO is responsible for ensuring that safe practices are used throughout the range occupation, ammunition handling, weapon's 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, ensure the fuze, rotating bands, ignition cartridge, striker nuts are firmly in place, rounds are clean and free of burrs, and that point detonating (PD) fuzes are set on super quick.
 - (9) The RSO will possess the correct range safety card for all live-fire exercises.
 - (10) The RSO will verify the settings on each weapon prior to firing.
 - (11) The RSO will supervise the emplacement 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 declinated aiming circle at West Point. The RSO will also check the lay of the section by using a second aiming circle. Referred reading will be taken between the two aiming circles and they must agree within 2

mils with each mortar.

- (14) The 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 NCOs 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 propellant charges are displayed for each round to be fired.
- (18) Misfire procedures will be performed IAW the applicable weapon's field manual or technical manual.
- (19) When an error in firing results in a round(s) known or suspected impacting 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.
- (20) Units desiring to fire mortars from Range #12 will submit a SDZ overlay for 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 be present during firing.
- (21) Demolition Restrictions. Kevlar helmet required when using demolition pit (See Para 7-9).

**Range #12
Survey Data**

PIT #1 – E: 581016.6	Pit #4 – E: 580981.0
N: 4577980.7	N: 4578019.8
EL: 236.6	EL: 352.5
PIT #2 – E: 581009.7	Pit #5 – E: 580979.1
N: 4577990.00	N: 4578040.5
EL: 352.1	EL: 234.6
PIT #3 – E: 580979.2	Pit #6 – E: 580964.7
N: 4578006.0	N: 4578052.1
EL: 236.6	EL: 353.3
JENS: – E: 580996.6	OP McNair – E: 580965.7
N: 4577966.9	N: 4578052.1
EL: 353.9	EL: 353.3

Survey data for Range #12 was surveyed by the 156th FA BN, NYARNG (All units regardless of the information in this regulation will verify their own survey).

Figure 6-1

Chapter Seven

Training Areas and Specialty Courses

7-1 General.

The training areas at USMA are located inside heavily wooded and mountainous terrain. Vehicle movement is generally restricted to improved roads and trails 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, aiming circles, and compass checks for weapon laying and safety procedures. Units should consider these possible impediments when planning and conducting training.

7-2 Ammunition.

The use of blanks, simulators, and pyrotechnics is authorized when properly supervised by the OIC and/or RSO and when fire hazard conditions permit. 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.

7-3 Bivouac Sites. Each training area is considered a bivouac site (unless posted off limits) Porta Potty latrines will have to be coordinated for unit use at cost to the using unit (see Chapter 2, Para 2-10). 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. At no time will a unit(s) be allowed to bivouac down range on USMA live fire ranges.

7-4 Safety. In addition to the safety provisions found in this 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 obstacle and 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.

7-5 OP McNair. OP McNair is located at grid coordinate 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. The following procedures will be used to ensure the safe and timely movement of personnel to and from OP McNair.

- a. Range Control will be contacted and approval obtained, before any movement either to or from OP McNair.
- b. Range Control will contact the OIC's of the following ranges to suspend fire before any movement to or from OP McNair.
 - (1) Range #2.
 - (2) Range #5.
 - (3) Range #7.
 - (4) Range #8.
 - (5) Range #11.
- c. When Range #2 is using OP McNair, 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 OP McNair will take instructions from Range Control before any movement of personnel or the resumption of firing.

d. When Range #2 is not using OP McNair 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 before a decision.

7-6 OP 5. OP 5 is located along the ridge in Area H west of Range 11.

7-7 Marne Confidence Course. The Confidence Course is located in Training Area K at WL78937770 and contains those obstacles depicted in Appendix B (range diagrams). FM 21-20 should be referenced for an explanation of the obstacles included in the course.

7-8 Anzio Obstacle Course. The Obstacle Course is located in Camp Buckner at WL78877829 and contains those obstacles depicted in Appendix B (range diagrams).

7-9 Range 12 (Demo) WL80717745 (See Appendix-B). These demolition sites are approved for use of TNT, dynamite, blasting caps, detonation cord, C-4, shape charges, and Bangalore Torpedoes is authorized in the designated firing pits. Total combined charge may not exceed 16 pounds. The following safety precautions will be strictly followed:

- a. A scarlet danger flag will be prominently displayed at Gate-66 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. Personnel within 100 meters and actually involved in firing explosives will be required to wear Kevlar helmets and earplugs.
- d. All personnel will be located behind the protective blast observation bunker located directly behind the demolition pit or beyond the 300 meter surface danger area before the OIC permits detonation.
- e. 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.

7-10 Pine Ridge Rappel Site. Locate at WL77227615. See Appendix B (range diagrams) 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 TRADOC school trained rappel master, 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.

7-11 Verdun NBC Site. This training site is located at WL75967738 and consists of a NBC Chamber with a parking area, administration building. There are no latrine facilities located at NBC site (See Para 2-10 Latrines); using units should contact the Directorate of Contracting to rent Porta Potty at cost. This facility is scheduled through Range Control.

7-12 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 USMA Airborne Detachment and the USMA Cadet Parachute Team. This facility is scheduled through Range Control.

7-13 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 Appendix B (range diagrams). A separate pamphlet describing the course and its operation is available from Range Control. The Leadership Reaction Course is scheduled through Range Control.

7-14 Appomattox Combative Pit. This site consists of a sawdust-filled combative pit located at WL795786 adjacent to Camp Buckner and Route 293.

7-15 Bull Run Water Confidence Training site. This site extends over Popolopen Lake from Camp Buckner to White Oak Island at WL78677826. It consists of a slide for life, rope bridge, and beam walk-rope drop. Two boats with two lifeguards each are required to operate this course. The battalion commander or equivalent will certify the training and qualifications of the lifeguards. Medic and ambulance are required. Scheduling is done through Range Control.

7-16 Battan Bayonet Assault Course. The BAC is located in Training Area-B at WL79817897 and consists of nine lanes of obstacles and is approximately 400 meters in length. Its use is scheduled through Range Control.

7-17 Land Navigation Courses. When requesting these areas from Range Control the unit should 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.

- a. Land Navigation #1 (Vera Cruz) land navigation course (training) is located in Training Area-R at WL75927741.
- b. Land Navigation #2 (Utah) land navigation course (training) is located at WL77237702.
- c. Land Navigation #3 (Vicksburg) is an advanced land navigation course located at WL76187616.
- d. Score points consist of marked trees with numbered tin can lids.
- e. The answer key may be signed out from Range Control.
- f. 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 (845) 938-2302.

7-18 Range #5 Privately Owned Weapons (POW)

- a. Description. As a benefit to members of the USMA Staff and Faculty, both military and civilians, USMA cadets and authorized dependents. Dependents may fire on this range, provided they are at least twelve years of age and are accompanied by an authorized user at least eighteen years of age. Dependents over eighteen may conduct Range #5 is available for the firing of privately own weapons (POWs).
- b. Location. This range is located at WL82388052, adjacent to Range #4 and is accessible from

- State Highway 293 across from Range Control. A key is necessary for access to this range.
- c. Authorized Weapons. Weapons firing standard 7.62mm or lesser caliber ammunition. Machine Guns M60 or M240 series are authorized only when using the machine gun positions. Machine Guns will not be fired from the AFF firing positions. Bipod and/or traversing and elevation (T&E) mechanisms must be used with the machine guns when using this range.
 - d. Authorized Ammunition. Standard ball, tracer firing is prohibited during periods of increased fire danger; inquire at Range Control prior to the start of training.
 - e. Firing Points. The AFF has 16 lanes to conduct field fire training, with target located at distances of 75, 175, and 300 meters. The Machine Gun area (familiarization only) has 8 firing points, with targets located at distances of 300 to 450 meters.
 - f. Targets. Type "E" and "F" silhouettes.
 - g. Range Flag. Located on the right-hand side of access road off of State Highway 293.
 - h. Safety Limits. Right and left markers (identified by the large red triangular shape panels).
 - i. Danger Areas. Training Area-Z3 and OP McNair. The Superintendent, USMA approved a deviation on 6 June 1997 (reviewed annually) to keep Training Area-E2 and Mine Torne Road open when Range #5 is firing because surrounding terrain masks these areas from ricochet.
 - j. Gate Guards. Units firing will post gate guards at the gated entrance to Range #4 and #5.
 - k. Vehicles.
 - (1) The authorized parking area for military vehicles is the lot between Range #4 and #5.
 - (7) The authorized parking area for privately owned vehicles is located outside of the gated range entrance.
 - l. Mess Area (See Appendix-B).
 - m. Public Address (PA) system. Located inside the tower.
 - n. Special Instruction. Ensure there are no personnel occupying OP McNair before firing commences. If personnel are present at OP McNair, they must be inside the bunker. Coordinate times with Range Control and OIC, OP McNair to allow entering and exiting from the bunker.
 - o. Telephone. (845) 938-6036 located inside of the range tower.

7-19 Sapper Island. Sapper Isle Operations (Sapper Raid STX) The following special instructions apply:

- (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 is 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 (igniters).
- (3) The RSO pilots the safety boat, with a medic onboard. (Ambulance remains in Area W.)
- (4) Only FM radio communication is necessary to operate this range. The OIC and RSO will each has a radio for redundant communications with Range Control.
- (5) The range will go "hot" when the assault force reaches the island. The RSO will request "hot" and "cold" 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 igniters to the demolition unit leader

after this check, which attach them to seven 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 depart 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.

Chapter Eight Gate Guards and Road Closing

Section I General

8-1 Range Gate Guards.

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

8-2 Gate Guard Duties.

- a. Be knowledgeable of their responsibilities listed below and type of training in progress.
- b. Maintain continuous radio or telephonic communications with the OIC. The arrival of visitors will be reported immediately to the OIC for clarification before granting entrance.
- c. Remain at the guard shack or gate if no guard shack is present. The gate guard will leave the gate closed but unlocked, allowing control access to the range while it's in a "hot" status. Only authorized vehicles e.g., Range Control, military, government and evacuation will be allowed access.
- d. Permit Range Control personnel access to all ranges and training areas while performing their duties.

8-3 Mine Torne Road Closings.

- a. 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.
- b. On Saturday when home football games are scheduled, no firing will be permitted that closes Mine Torne Road.
- c. Mine Torne Road is closed during artillery firing (mortar firing is not affected) from Range #2. The using unit will post a gate guard(s) on Mine Torne Road at the gate next to Highland Warrior headquarters. The using unit must have and maintain communication with the gate guard at all times. Gate guards will only allow authorized personnel and vehicles inside of the surface danger zone.

8-4 Closing Procedures.

- a. Notification signs for the closing of Mine Torne Road are posted at the intersection of US Highway 293 and Mine Torne Road and at the intersection of "Old 9W" and Mine Torne Road.
- 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.
- d. Other CRD activities may be closed from the period 15 May to 31 August (Cadet Summer Training) if these activities interfere with training.

Section II

Responsibilities

8-5 CDR, 1/1 IN.

- a. Ensure scheduled closings of Mine Torne Road are published in the post bulletin.
- b. Ensure that the Public Affairs Office is notified of road and facility closures.
- c. Ensure that personnel at West Point are notified by organizational email or email bulletin board.

8-6 NCOIC/Range Operations Officer, Range Control. Brief the OIC/RSO for ranges affected by posting gate guards and emplacing barriers closing Mine Torne Road and the posting of notification signs.

8-7 Public Affairs Office. Notifies local news media of the scheduled closings of Mine Torne Road as reported in the post bulletin.

Chapter Nine

Air, Airborne, and Helocasting Operations

9-1 Air Operations Within the Training Area.

General

- (1) All air operations within the range and training area must make prior coordination from the Range Control (845) 938-3930/8559 and CDR, 2nd Aviation Detachment (845) 567-1088/1164. Requests to use the training area for air operations should be addressed on USMA Form 1-249R (see Appendix-C) and requires 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, (845) 938-4204.
- (2) All air operations conducted east of New York State Highway 9W require the prior approval of the USMA, Air Force Liaison Officer, (845) 938-4204.
- (3) Helipads are located throughout training area and are denoted on the range map by a colored triangle.
- (4) Nap of the Earth (NOE) Flying. NOE flying is authorized at USMA over the areas listed below after the unit has coordinated with both the 1-1 IN, Range Management Officer and Commander, 2nd Aviation. Units will avoid flying over 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).
- (5) No more than two aircraft may operate in any NOE area at a time.
- (6) Aircraft operating NOE will contact Range Control on FM 46.70 when beginning and concluding NOE training.
- (7) All provisions of Army Regulations, the using unit aviation SOP's and other applicable publications apply when flying at USMA.

9-2 Airborne Operations.

General

- (1) Airborne operations may be conducted at USMA by both active and reserve component units 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.
 - a. Drop Zone (DZ): Maddock (WL753774). This DZ is for the exclusive use of the Cadet Parachute Team and is controlled by the Airborne Detachment (845-938-4314), Department of Military Instruction (DMI), West Point, NY.
 - b. Only helicopter drops can be made at this DZ.
- (5) Night Vision Goggles (NVG) are authorized at the West Point military reservation.

9-3 Relocating/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 Range Control. Long-term approval may be granted by submitting the unit's current helocasting SOP to USMA Range Control (ATTN: Range Operations Specialist) for review. Allow 90 days 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 and the USMA Range Risk Assessment. (See Appendix-D).

Chapter Ten Airspace Restrictions

10-1. General. The area described in paragraph 10-2 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 10-2 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 paragraph 2-2e(1-8).

10-2. 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 ATITUDE 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.

10-3. Operating Procedures

- a. The restricted airspace will be activated before 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 before 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. Requests will follow the format in Figure C-8. Notification must be made in sufficient time to permit relay of the NOTAM not later than 48 hours before 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 to 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.
 - (f) 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 C-9 of this regulation.

10-4. Safety Considerations

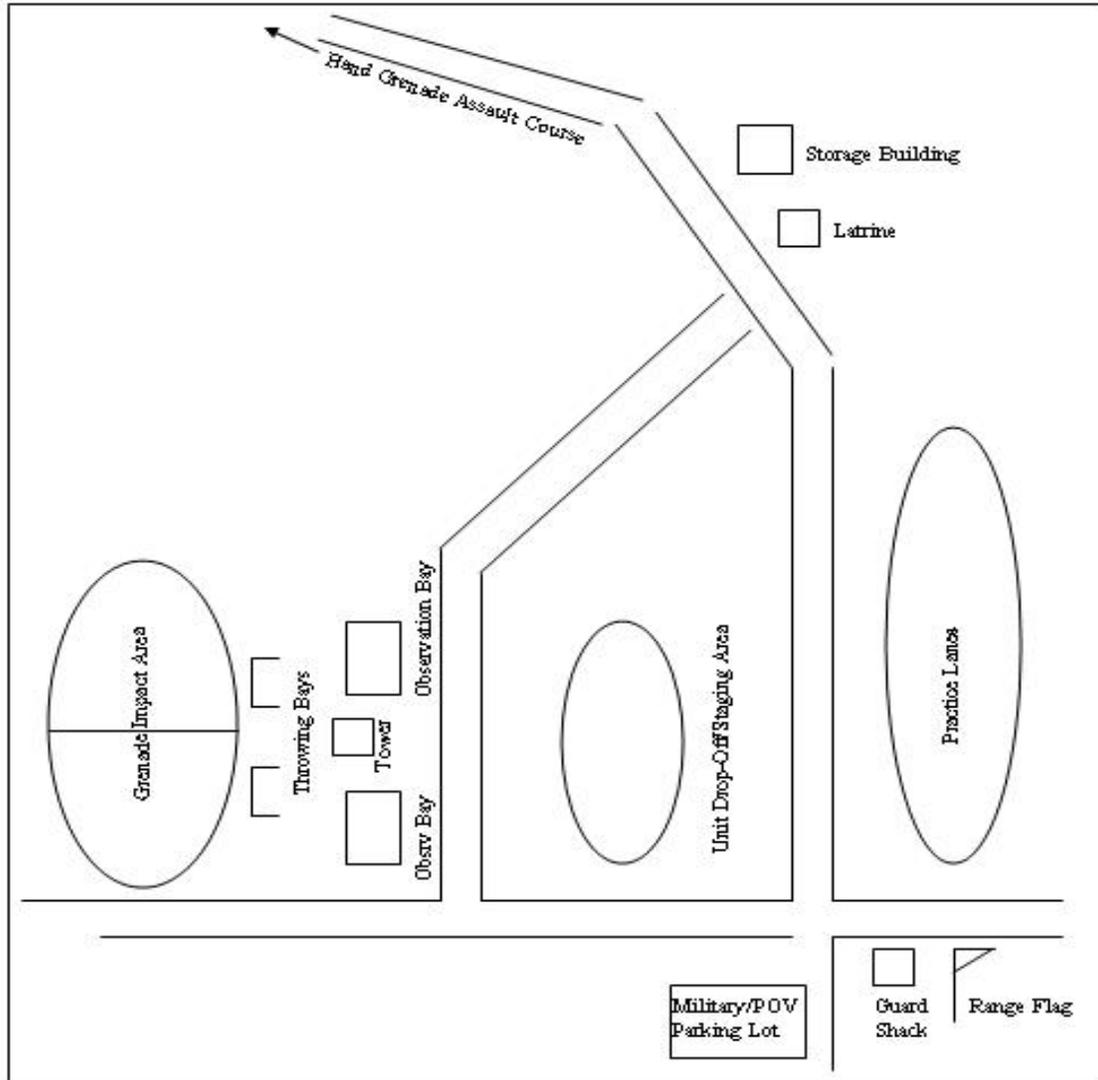
- a. Aircraft will be allowed to enter the Restricted Area only after receiving permission from CDR, 1-1 IN/DGC-WP, through normal request procedures for range and training area utilization. The request form must be submitted in writing three (3) days before the scheduled activity in the format at figure C-8.
- 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, is accomplished for all low level or nap of the earth (NOE) missions conducted at USMA. Proper and timely notification of the CDR, 1-1 IN will ensure that this occurs. Avoid flying over 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, x3930/8559. Range Control will forward the report to the CDR, 1-1 IN and to the US Air Force Liaison Officer (USAFLO). 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 Range Control in aviation mission management. The USMA AFLO will assist as needed.

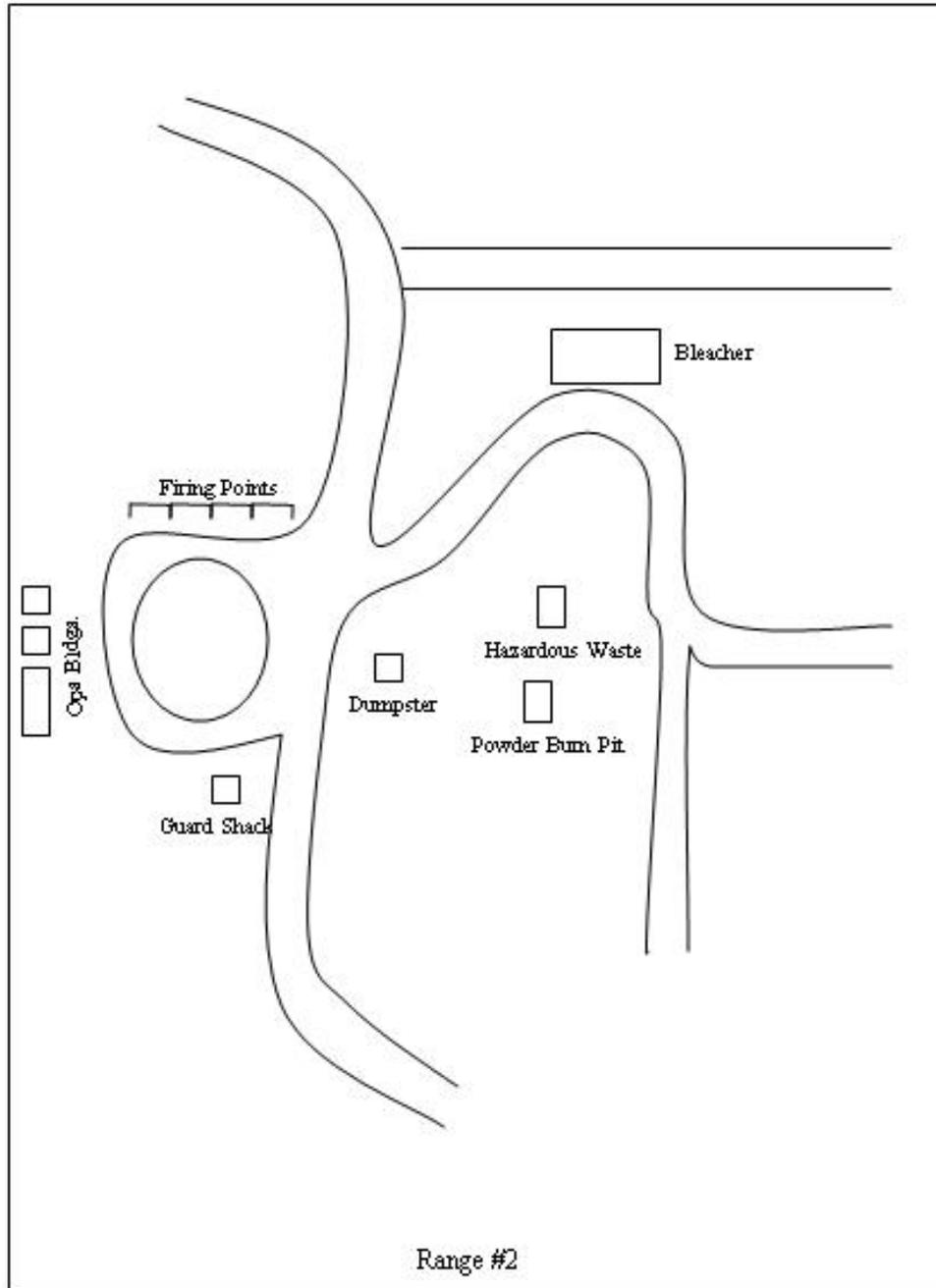
APPENDIX-A REFERENCES

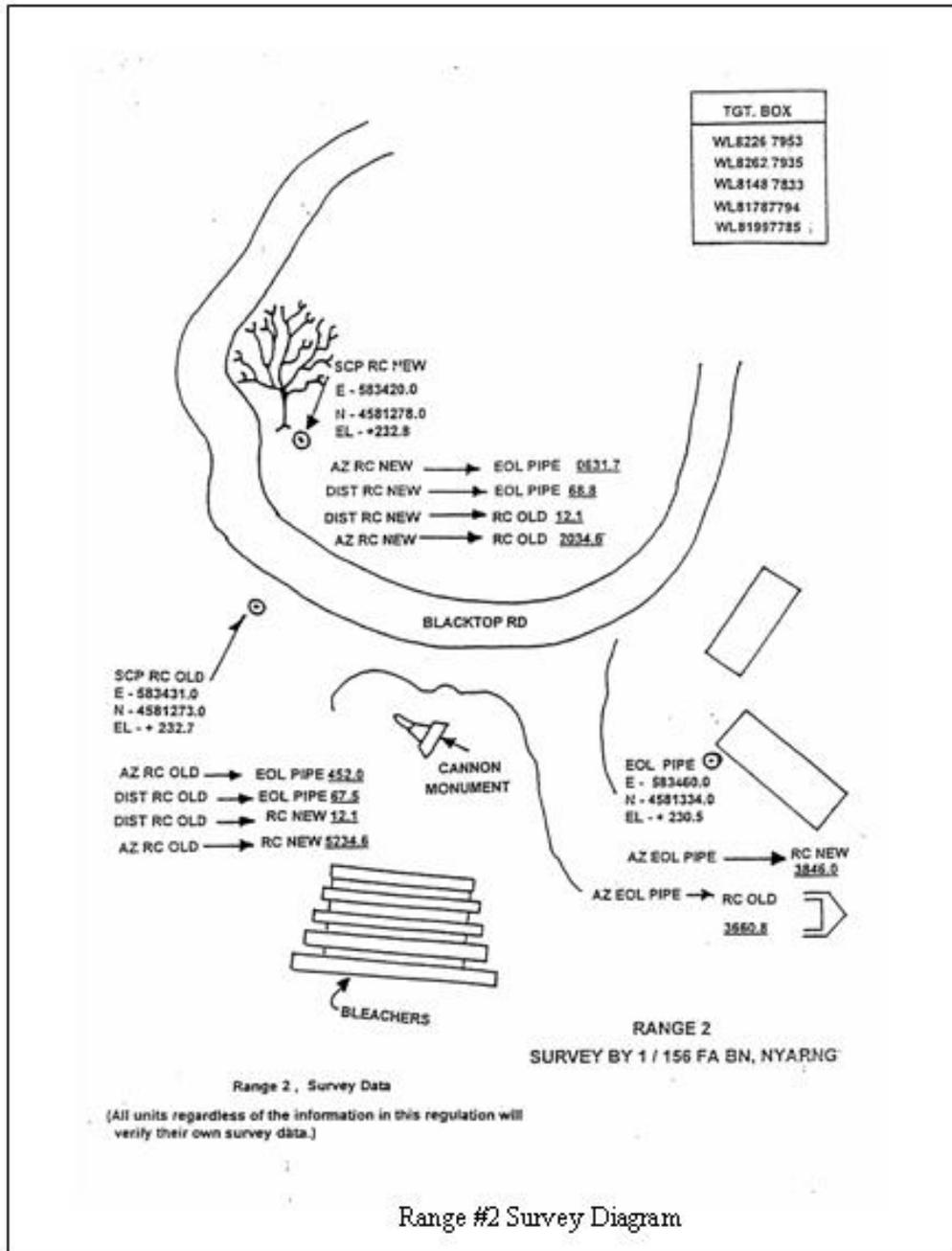
AR 40-5	Preventive Medicine.
AR 75-1	Malfunctions Involving Ammunition and Explosives.
AR 75-15	Responsibilities and Procedures for Explosive Ordnance Disposal.
AR 95-2	Air Traffic Control, Airspace, Airfields, Flight Activities and Navigational Aids.
AR 190-11	Physical Security of Arms and Ammunition.
AR 190-51	Security of Unclassified Army Property (Sensitive and Non-Sensitive).
AR 210-21	Army Training Ranges and Training Land Program.
AR 350-1	Army Training with USMA Supply 1.
AR 350-4	Integrated Training Area Management (ITAM).
AR 385-10	Army Safety Program with USMA Suppl 1.
AR 385-40	Accident Reporting and Records.
AR 385-63	Range Safety
AR 385-64	U.S. Army Explosives Safety Program.
AR 420-70	Buildings and Structures.
PAM 385-63	Range Safety
PAM 385-64	U.S. Army Explosives Safety Program.
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 Cannon Gunnery.
FM 6-50	Tactics, Techniques and Procedures for the Field Artillery Cannon Battery
FM 21-75	Combat Skills of the Soldier
FM 21-10	Field Hygiene and Sanitation.
FM 3-22.9	M16A1/A2, M4 Rifle and Rifle Marksmanship.
FM 3-22.31	40MM Grenade Launchers, M203.
FM 3-22.68	Crew Served Machine Guns (M249, M60, and M240B).
FM 3-22.91	Mortar Gunnery.
FM 3-23.25	Light Anti-armor Weapons.
FM 3-23.30	Grenades and Pyrotechnic Signals.
FM 3-23.35	Combat Training with Pistols, M9 and M11.
FM 23-65	Browning Machine Gun, Caliber .50, Heavy Barrel, M2.
TC 25-8	Training Ranges.
USMA REG 210-2	Responsibilities for Use of Camp Buckner.
USMA REG 210-6	Temporary use of USMA Facilities
USMA REG 215-5	Morale, Welfare, Recreation, Hunting, Fishing and Trapping.
USMA REG 420-1	Maintenance and Operation of Athletics and Recreation Facilities.
USMA REG 420-3	Fire Prevention and Protection.
USMA REG 420-5	Grounds Maintenance.
USMA REG 420-11	Customer Work Priority Program.
USMA REG 75-1	Ammunition Policies and Procedures.

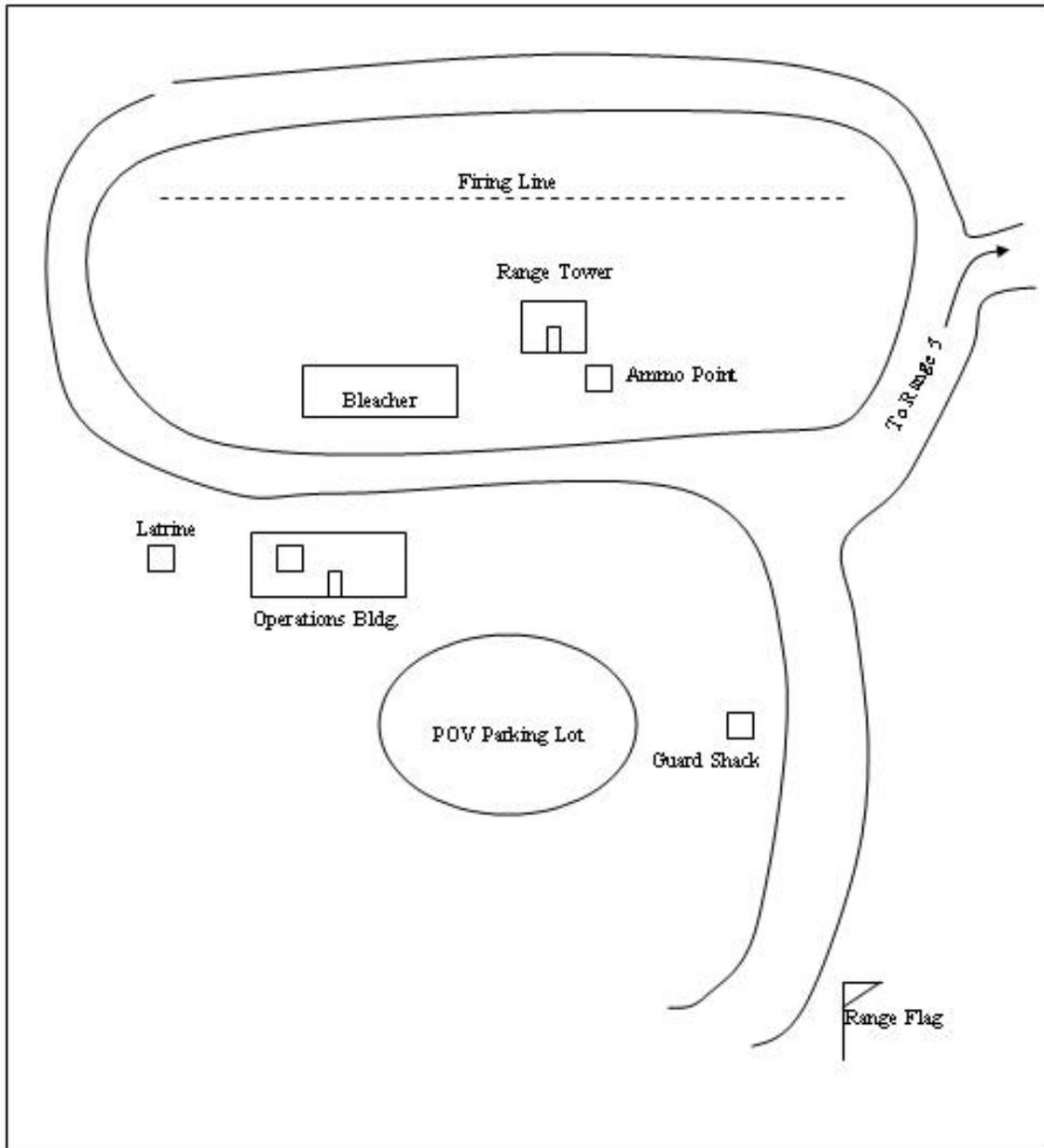
APPENDIX-B RANGE DIAGRAMS



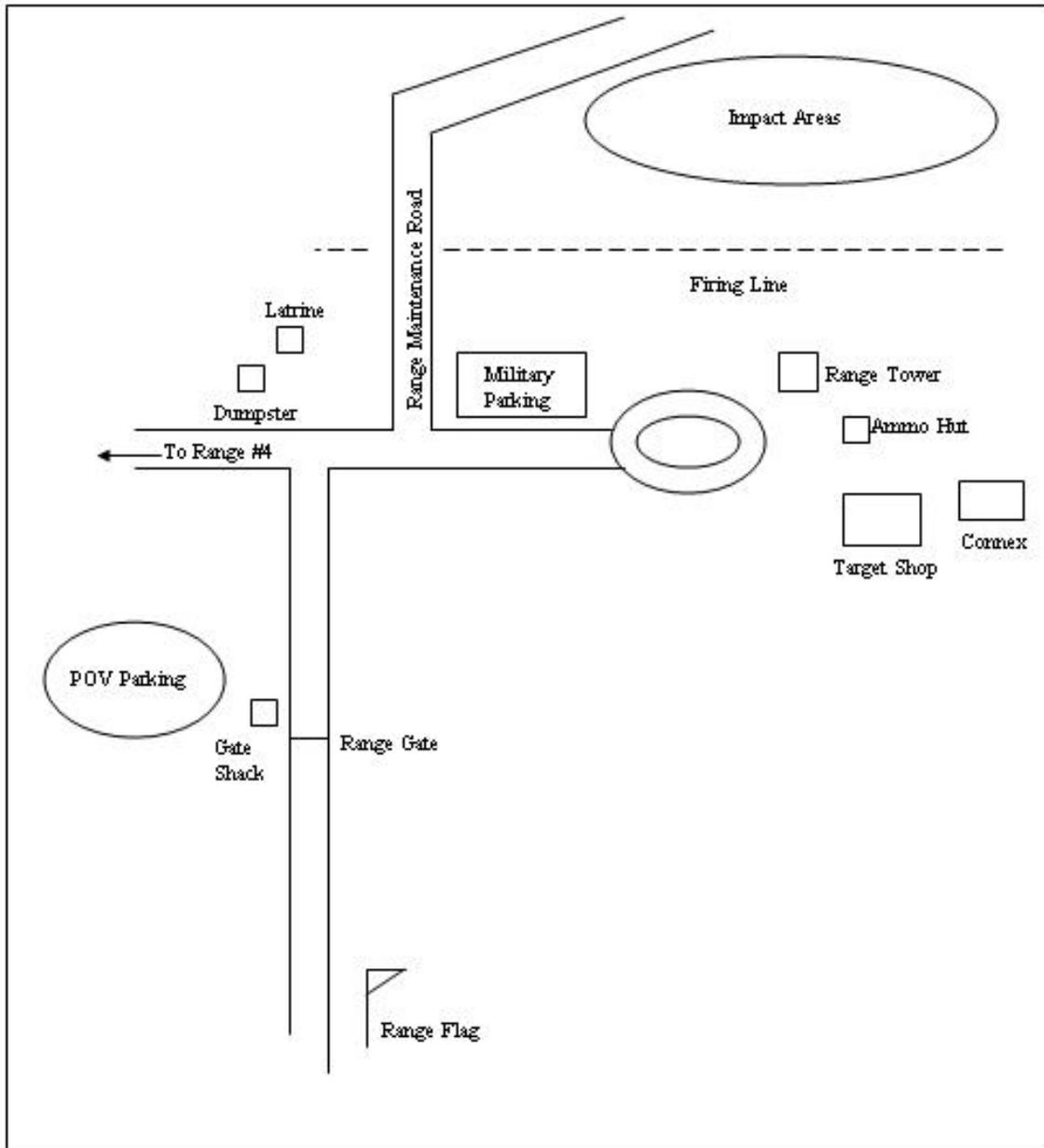
Range #1



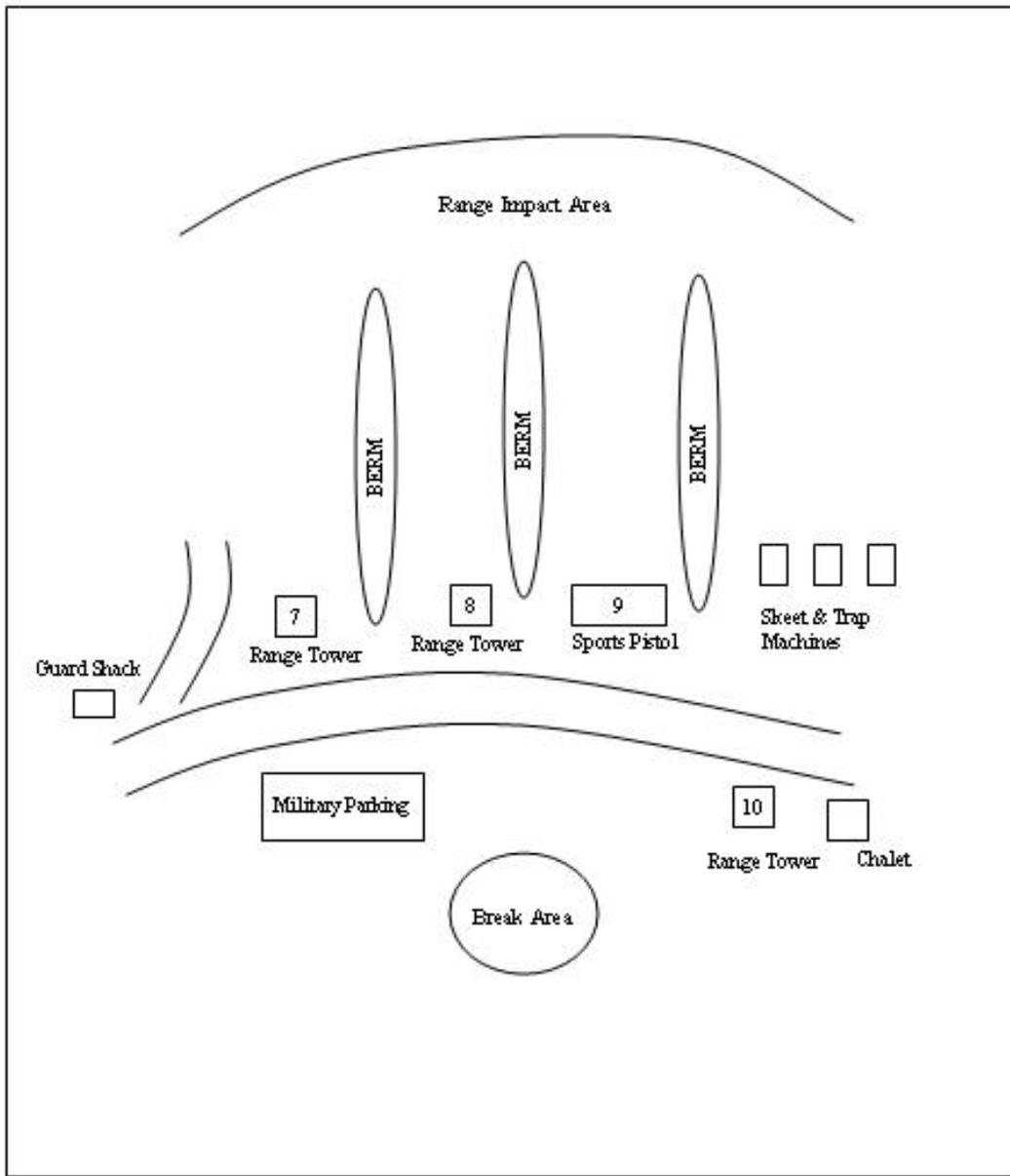




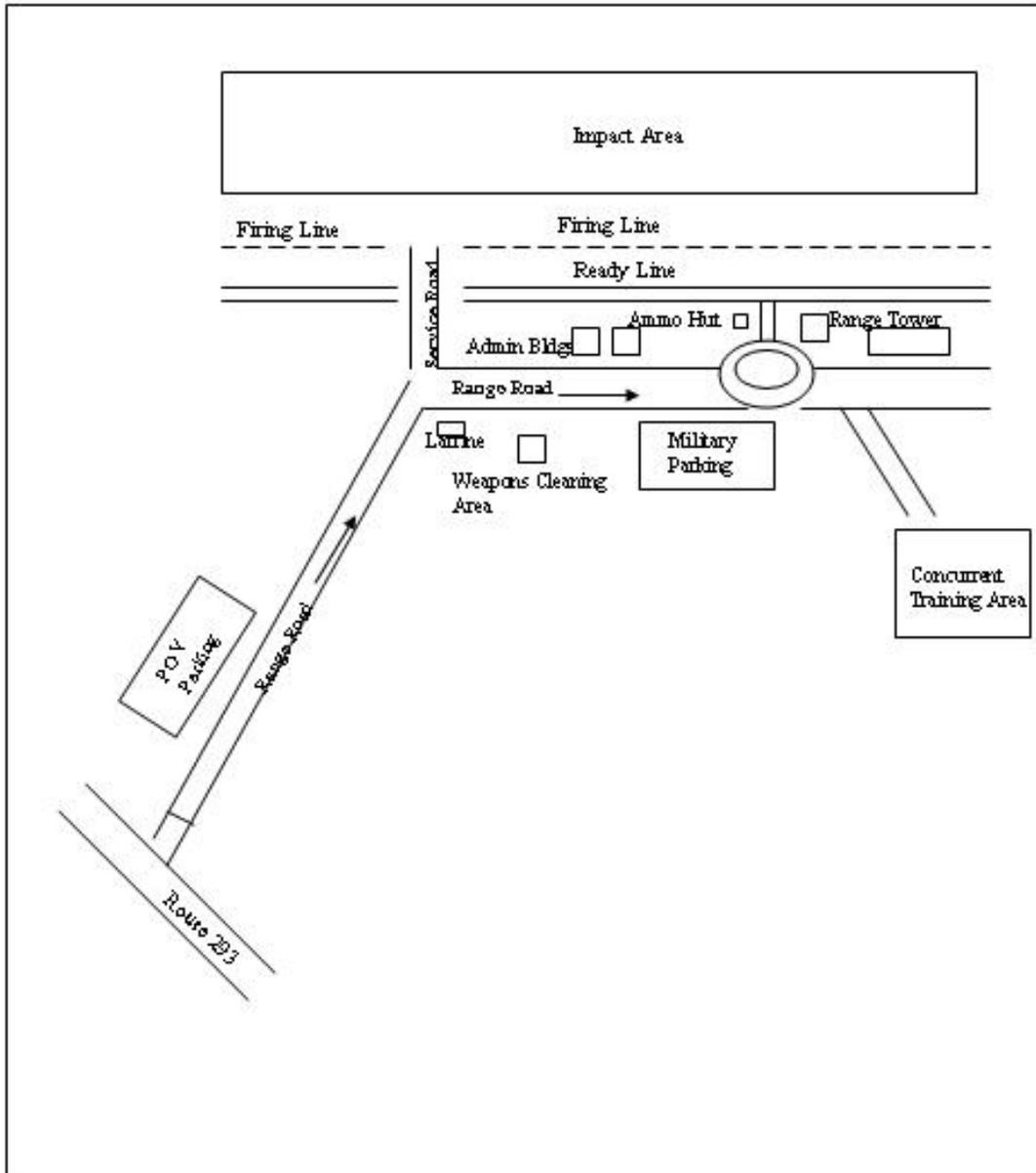
Range # 4



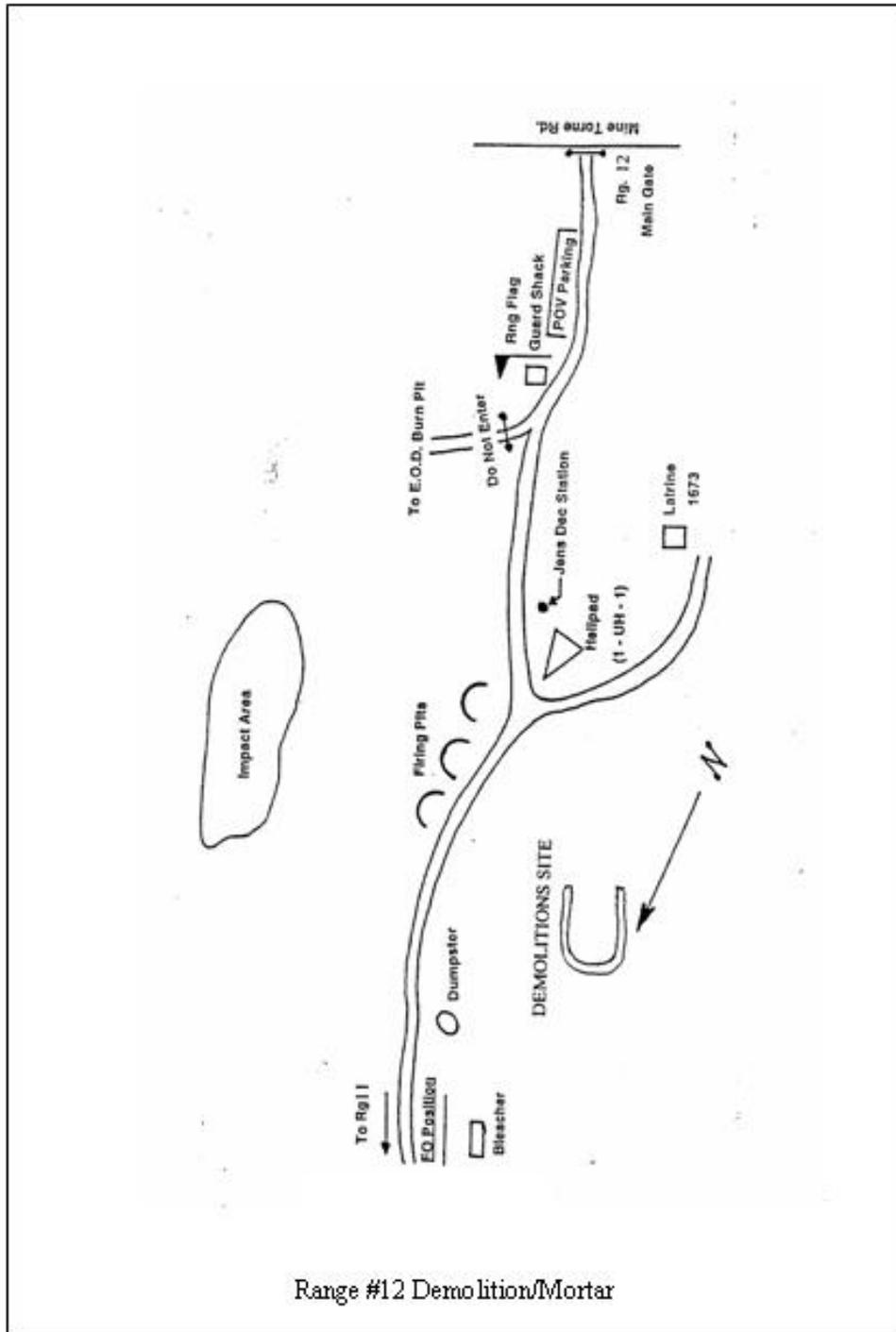
Range #5



Ranges 7, 8, 9, & 10



Ranges #11



APPENDIX-C 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 C-1).**
 - a. One copy of this request will be prepared for each day of training, by each unit or activity desiring to utilize the training complex facilities and forwarded through appropriate command channels to Range Control (845) 938-3930/8559, Fax (845) 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 (Organizational, Figure C-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 Minor, Figures C-3 and C-4).** The appropriate form will be completed for all civilian personnel using the 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 C-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 O-6/LTC, commander or higher in his/her 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 C-6).** For Range Control use at unit in-briefing.
7. **RANGE/TRAINING INSPECTION FORM (Figure C-7).** This form will be used by a representative of Range Control to inspect firing and training.

8. RANGE CLEARANCE FORM. (Figure C-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 C-9). This form details the responsibilities for conducting annual inspections of the training complex.
10. DUD REPORT. (Figure C-10). This form will be used by any units that find any type of unexploded ordnance.
12. USCC RISK MANAGEMENT WORKSHEET. (Figure C-11 and C-12). 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.

**RANGE CONTROL HEADQUARTERS
UNITED STATES MILITARY ACADEMY
RANGE COMPLEX REQUEST FORM**

Unit: _____ Date: _____

Unit Address: _____

Unit Telephone: _____ POC: _____

Requested Date: (Use a separate form for each day) _____

Total Personal To Be Trained: _____

Range/TNG Area	Type of Training	Start/End Time	Number Personnel to be Trained	Type of Weapon(s)	Type of Ammunition	Number and Type of Vehicles

I have read and understood all portions of USMA Reg. 385-11 and will ensure that the provisions of the regulation are instituted. I will ensure all personnel 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: _____

Print Name and Rank: _____

Figure C-1
USMA Range Complex Request

Release From Liability (Organizational)

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 for the purposes of _____ on _____ the receipt of such permission being hereby acknowledged, the undersigned, on behalf of the _____ hereby releases the Superintendent, West Point, 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, 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 _____ 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

Witness

Witness

Signature of Representative
of Organization

Figure C-2
Liability Statement (Organizational)

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

Figure C-3
Liability Statement (Individual)

Release From Liability (Minors)

In consideration of receiving permission from the Superintendent, West Point, New York for _____ to enter upon the premises
Name of Participant
of West Point for the purposes of _____ on _____, the
Activity Date
receipt of such permission being hereby acknowledged, the undersigned parent/legal guardian of _____ hereby releases the Superintendent,
Name of Participant
West Point, 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 the premises of
Name of Participant
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
Name of Participant
that he or she 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

Figure C-4
Liability Statement (Minor)

DUD REPORT

1. Date/Time: _____
2. Location: _____
3. Number of DUD(S) 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 the report: _____
9. Remarks: _____

Figure C-5
USMA DUD Report Form

**RANGE CONTROL HEADQUARTERS
UNITED STATES MILITARY ACADEMY
WEST POINT, NY 10996**

RANGE SAFETY INSPECTION CHECKLIST

Range Inspected: _____ Date: _____

REQUIREMENTS	YES	NO	NA
1. Was the range flag or red light properly displayed on the range?			
2. Was a gate guard(s) posted?			
3. Was medical support on site?			
4. Were the required range publication on hand?			
5. Was a DA Form 1594, Daily Staff Journal, properly maintained?			
6. Were all weapons being handled safely or properly secured?			
7. Were all weapons cleared properly as required?			
8. Were personnel cleared for brass and ammo upon completion of firing?			
9. Was a safety briefing given to all firers prior to firing?			
10. Were firers responsive to tower commands?			
11. Was ammunition stored as required and guarded?			
12. Was the OIC present and knowledgeable of his/her duties and responsibilities?			
13. Was the RSO present and knowledgeable of his/her duties and responsibilities?			
14. Was the range limits observed and only authorized weapons being used?			
15. Was the range free of unit slogans, paintings or other disfigurements?			
16. Was parking controlled and the range free of POV's?			
17. Was a smoking area designated?			
18. Was the latrine cleaned and dumpsters free of food waist?			
19. Was the range area in a high state of police?			
20. Were other safety requirements unique to mortar or howitzer firing observed?			
Pass Inspection			
Comments?			
UNIT: _____ OIC: _____ RSO: _____			
RANGE INSPECTED BY: _____			

Figure C-6
Range Inspection Checklist

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

(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 C-8
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 hour's 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 C-9
Daily Airspace Utilization Summary

**OIC/RSO
INDIVIDUAL CERTIFICATION MEMORANDUM**

OFFICE SYMBOL (MARKS NUMBER)

DATE

MEMORANDUM FOR Superintendent, United States Military Academy, ATTN: MABS-S3,
West Point, NY 10996-5000

SUBJECT: Range Certification Completion (OIC/RSO)

1. I certify that _____, has successfully completed this unit's
Rank and Name

Range Officer-In-Charge (OIC)/Range Safety Officer (RSO) training course and is fully capable
of fulfilling the responsibilities of a Range _____.
OIC/RSO or Both

_____ is totally familiar with USMA Regulation 385-11, AR 385-63 a
Rank and Name

all applicable Field Manuals (FM's) and Technical Manuals (TM's) which apply to the weapon
system(s), ammunition, 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 as Range _____ duties for
Rank and Name OIC/RSO or Both

the following weapon systems, ammunitions, and /or explosives: _____

Signature Block
(First O-5 in COC)

Figure C-10
OIC/RSO CERTIFICATION MEMO

APPENDIX-D
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.
- 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 Range 7 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.

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-E
USMA 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.