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# **U.S. Army Garrison-West Point DPTMS – Range Operations Policy & Procedures**

## **Standard Operating Procedure Range 7 (*Saratoga*) AT-4 Anti-Armor Range**



Department of the Army  
U.S. Army Garrison West Point  
United States Military Academy  
West Point, New York 10996-5000

## Document History

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### Document Location

All hard copies will be located at Building 1403 Range Operations Fire Desk. Also, electronic copies may be retrieved via DPTMS website (Training Link), or upon request.

### Revision History

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2	2/2/15	Minor Changes	Lake
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### Approvals

This document requires the following approvals:

Name	Title
	USAG-WP, Range Manager
	USAG-WP, Chief of Training
	USAG-WP, Director of Plans, Training, Mobilization & Security

### Distribution Formula

This document has been distributed to:

Office	Name Title
Scheduled User	Issued Hard-bound Binder copy during use of range/facility
USAG-WP	Range Operations Office

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# 1. General Information

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## 1.1 Purpose

This Standard Operating Procedure (SOP) provides standard instructions and checklists for unit and individuals using Range 7 (Saratoga), Anti-Tank (AT-4) Range. It defines standardized steps and procedures to be followed for its safe and efficient use.

This SOP is directive based and complies with applicable United States Military Academy and Department of the Army Regulations, current doctrine, policy and guidance.

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## 1.2 Applicability

This SOP is designed to provide units with safe range operating procedures and guidelines. It applies to all units of the U. S. Armed Forces, civilian organizations, and individuals who are authorized to use this range or training facility at West Point, and by all applicable users IAW West Point Regulation 350-11 and DA Pam 385-63.

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## 1.3 Responsibility

Use this SOP in conjunction with AR 385-63, DA Pam 385-63 and West Point Reg. 350-11 which provide specific and detailed range firing responsibilities for using units. These directed and required actions are necessary for the safe conduct of all range firing and training. Full compliance IAW the afore-mentioned regulations as well as steps and procedures of this SOP, is the responsibility of the commanders, as well as the personnel of using organizations or units. Personnel of any non-DoD civilian agency or activity, using West Point ranges and training facilities must also comply with the provisions and requirements outlined in West Point Reg. 350-11.

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## 1.4 References

All required and related publications are those covering the training conducted and those listed in the applicable chapters and Appendix A of West Point Reg. 350-11 or other respective regulations, policies and procedures. Additional references are also listed at Appendix A, of AR 385-63 and DA Pam 385-63.

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## 1.5 Suggested Improvements

The proponent of this Standard Operating Procedure (SOP) is the Director of Plans, Training, Mobilization and Security, U.S. Army Garrison West Point, ATTN: DPTMS, Building 621, Wilson Road, United States Military Academy, West Point, New York 10996-5000. Users are encouraged to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms).

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## 2. Range Description & Characteristics

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### 2.1 Range Description & Definitions



#### 2.1.1 Range Description

Range 7 is a live fire range complex capable of supporting live fire of the M136, AT-4 anti-armor weapon. Additionally it supports firing of the MK-19 grenade launcher machine gun (TP ONLY). Range 7 is used to train, and test soldiers on the skills necessary to employ these weapons systems.

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### 2.2 Range Location

Range 7 is located within training area Z4, vicinity grid WL81708000 as part of the range 7-10 complex. It is accessible from Hwy 293 directly across from Range Operations. A key is needed to access this range.

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### 2.3 Standard Supported Courses of Fire

Range 7 consists of 6 firing lanes that support:

9mm Sub-Cal M136, AT-4 Tables 1-5, Instructional & Qualification Fire (Day & Night)
M136, AT-4 HE Live Fire (limited to <b>one</b> (1) firing point when firing HE)
N/A
MK19 Grenade Launcher MG Crew Drill and Familiarization

## 2.4 Authorized Weapons & Ammunition

WEAPON CALIBER	AMMUNITION DODIC
M136, AT-4	9mm Tracer Trainer = M939, HE= C995
N/A	
MK-19 Grenade Launcher MG	B584, TP ONLY

## 2.5 Range Specific Safety Measures

### 2.5.1 Danger Areas

WEAPON SYSTEM	DANGER AREAS	GATES
AT-4 with 9mm Sub-Cal	Z4	Range gate guard at range 7 entrance guard shack
AT-4 HE	D4, E2, Z4, Z5	Range gate guard at range 7 entrance guard shack
N/A		
MK-19 (TP ONLY)	D4	Range gate guard at range 7 entrance guard shack

### 2.5.2 Range Gate Guard Requirements

A range gate guard is required at the entrance to range 7 guard shack, vic grid WL81758009.

### 2.5.3 Range and Gate Closures

Range 7 requires the closure of the following:

WEAPON SYSTEM	ROADS	RANGES
AT-4 with 9mm Sub-Cal	NA	OP McNair (CANNOT be occupied by personnel).
AT-4 HE	NA	OP McNair (CANNOT be occupied by personnel).
N/A		
MK-19	NA	NA

## 2.6 Range Targetry

Range 7 supports the following targetry:

TARGET DESCRIPTION	TARGET NSN
See Page 27 Diagram for specific target engagement criteria.	Non-applicable
E Silhouette targets on wood stakes for claymore mine	6920-00-071-4780

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## 2.7 Range Support Facilities

Range 7 has the following range support facilities to support operations:

Range Tower	Ammunition Breakdown Point
Bleachers	Covered Mess Shelter (behind range 8)
Latrine	

NOTES: None

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## 2.8 Authorized Parking

Military Vehicles – Available behind range 8 and between range 7 and 8, vicinity grid WL81688001.

Civilian Privately Owned Vehicles (POVs) – POV parking is located on the right side of the access road, prior to entering range complex.

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## 2.9 Communications

Communications: All live fire ranges must maintain two separate means of communication with Range Operations at all times. Primary means of communication with Range Operations will be by Motorola Handheld “livefire” Channel. Alternate means of communication will be by commercial telephone.

There is a commercial telephone located inside the range tower; telephone number is (845) 938-6038.

A quick reference phone index is located at the front of this SOP Binder.



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## 3. Range Safety & Security Procedures

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### 3.1 Individual Hearing Hazard Zone

DA Pam 40-501 specifies that hearing protection is required for any exposure noise decibel greater than 140 dBP. All personnel within the 140 dBP hearing hazard zone will wear approved single point hearing protection. The size varies based upon the weapons system being used. Multi-use ranges will establish the zone based on the loudest weapon used. The following list of distances to the hazard contours for common military weapons is conservative (m = meters):

- a. 84mm / AT-4: 390 m radius of weapon (back blast is 100 m and cannot be occupied).
- b. 40mm / MK19 GL: 20 m radius of weapon.
- c. 9mm: 9 m to the side, 6 m to the rear.

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### 3.2 Individual Personal Protection Equipment (PPE)

- a. Ballistic (Kevlar or Army Combat Helmet (ACH) **WILL** be worn for safety and protection by all military personnel on the firing line of all ranges.
- b. Individual Body Armor (IBA) or Flak Jackets are required on all firing ranges, and **WILL** be worn by all personnel engaged in any live fire activity. This reinforces appropriate combat conditions and proper training environment of any training program.
- c. Eye Protection. All personnel engaged in any live fire activity **WILL** wear individual approved eye protection.
- d. Hearing Protection. All personnel engaged in any live fire activity **WILL** wear approved single point hearing protection. This requirement applies to firer's and non-firer's (coaches, range personnel) alike.

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### 3.3 M136, AT4 Weapons Handling & Inspection

- a. The M136 AT4 is a lightweight, self-contained, antiarmor weapon. It consists of a free-flight, fin-stabilized, rocket-type cartridge packed in an expendable, one-piece, fiberglass-wrapped tube. The M136 AT4 is man portable and fired from the RIGHT SHOULDER ONLY.
- b. The M136 AT4 is issued as a round of ammunition rather than as a weapon, therefore the launcher is completely sealed. Its overall condition should be inspected at time of issue and again before use. Five AT4s, each wrapped in a plastic barrier bag, are packed together in a wooden container. Each round should be thoroughly inspected prior to firing and ensure:
  - 1) The rear seal, a brown acrylic plastic plate inside the venture, is in place and undamaged.
  - 2) The transport safety pin is in place and fully inserted. The lanyard is attached to the transport safety pin and launcher. The lanyard should already be wrapped around the launcher clockwise and the transport safety pin inserted in the retainer hold counterclockwise.
  - 3) The cocking lever is present and in SAFE (uncocked) position.
  - 4) The plastic fire-through muzzle cover is in place and undamaged.
  - 5) The launcher has the correct color-coded band.

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NOTE: A black with yellow band indicates HE; a gold or yellow band indicates a field handling trainer; and no band indicates a M287 9-mm tracer bullet trainer.

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  - 6) The sights function properly, ensure they pop up and are undamaged.
  - 7) The forward safety does not move ;when you depress it.
  - 8) The red trigger button is not missing.
  - 9) The launcher body has no cracks, dents, or bulges.
  - 10) The carrying sling is not frayed and is attached firmly to the launch tube.

- 11) The shoulder strap is not broken or damaged and it unsnaps and folds down.

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### **3.4 Army Range Safety Memorandums/Messages (ARSMMs)**

Interim changes may be published to AR or DA Pam 385-63 as Army Range Safety Memorandums/Messages (ARSMMs). A file of all current ARSMMs is maintained at Range Operations. Range OIC/RSO personnel will be familiar with ARSMMs associated with specific training being conducted prior to conducting operation on the range.

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### **3.5 Unexploded Ordnance (UXO) and Reporting of Duds**

Do NOT touch or disturb any Unexploded Ordnance (UXO) encountered. Leave any UXO discovered in place, including all rounds observed as falling into or within the designated range impact area but which fail to function (detonate). All rounds that fall into the common impact area, but fail to detonate will be reported to Range Operations at the conclusion of the range firing.

If a round, a suspicious item or ordnance, or a UXO item is found outside a designated range firing impact area do NOT disturb the item. Conspicuously mark the item, route traffic a safe distance around. Report the UXO immediately to Range Operations and initiate a dud report.

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### **3.6 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. Other munitions and ammunition above 7.62mm will be retrieved only by EOD, ASP or Range Operations personnel. Documentation is not required for turn-in under the Ammunition Amnesty Program. Contact West Point ASP Office at commercial telephone 938-3216 for further information.

## 4. Range Operational Requirements/Responsibilities

### 4.1 Range Officer in Charge (OIC) / Range Safety Officer (RSO) Appointment Requirements

WEAPON SYSTEM	OFFICER IN CHARGE (OIC)			RANGE SAFETY OFFICER (RSO)		
	OFF	CADET	NCO	OFF	CADET	NCO
Practice hand grenade simunitions training devices; simulators, and small arms (5.56mm and below)	X	N/A	E6(P)	X	X (Wpns Qualified)	E5(P)
Chemical Agents (CS) and smoke	X	N/A	E6 (MOS Qualified)	X	N/A	E5
Aerial gunnery, live grenades, grenade launchers, grenade machine guns; Live mines, and demolitions.	X	N/A	E7	X	N/A	E6
Field Artillery and LASER ranges	X (0-3)	N/A	N/A	Battery XO X	N/A	N/A
Live Fire Exercises using organic weapons, team through squad.	X	N/A	N/A	X	N/A	E7
Mortars	X	N/A	N/A	X	N/A	E6
Direct fire antitank rockets	X	N/A	E7	X	N/A	E6
Specialty Non-LFX Courses	X	N/A	E6	X	X	X
Specialty Non-LFX Courses (Rappel) * Rappel Master Certified	X*	N/A	E7*	X	N/A	E6

Table 4-1, OIC / RSO Appointment Requirements

### 4.2 Range Officer in Charge (OIC)

The Range OIC holds the responsibility and accountability for the conduct of the activity and the adherence to governing regulations and guidance.

#### 4.2.1 OIC Qualifications

A commissioned, warrant, or noncommissioned officer (NCO) may serve as a Range OIC. NCOs serving as OIC will be in the grade as shown in Table 4-1 above, at a minimum. Range OICs will be qualified on the weapon(s) systems being fired, and will have satisfactorily completed a range safety certification program in the weapon system(s) for which they are responsible conducted by their Battalion/Unit (O5 & above Command) to which they are assigned.

### 4.2.2 OIC Actions & Procedures before Range Occupation

STEP	ACTION	TAKEN
1	Thoroughly plan the range operation and/or training activity and determine the personnel and equipment support requirements.	
2	Be weapons system(s) qualified, and that his/her command safety certification and appointment is completed, and on file at Range Operations.	
3	Receive the mandatory Range Operations briefing within ONE DAY prior to use.	
4	Ensure a qualified RSO is command safety certified and appointed, and briefed by Range Operations. OIC briefs the RSO on his/her duties to be performed.	
5	Verify that all personnel in a direct supervisory role or safety position are familiar with the provisions of this SOP, West Point Reg. 350-11, AR/DA Pam 385-63, and the FM/TMs governing the weapon(s) system and ammunition to be fired.	
6	Ensures that the required and appropriate medical support personnel are qualified. All appropriate equipment and supplies are available to support the range operation(s) and/or training activity.	
7	Check in at Range Operations upon arrival to the installation to receive an updated briefing and sign for the range and necessary support equipment.	
8	Assign an Ammo NCO to be responsible for, and to ensure that ammunition and explosives are properly drawn, transported, handled, stored, and accounted for, from time of receipt, to the time of expenditure or turn in.	
9	Develops a composite risk management worksheet for all phases of the range operation(s) and/or training activity, and mitigate initial high and extremely high hazards through appropriate control measures, using DA Fm 2977.	

### 4.2.3 OIC Actions & Procedures before Operations

STEP	ACTION	TAKEN
1	Ensures the correct range/firing position and or training facility is occupied, and conducts a joint inventory with a Range Operations representative to verify the presence and condition of the range facilities and equipment.	
2	Conducts a Range OIC brief to the RSO, Range Safety Assistants, Medical NCO, Assistant Instructors, Ammunition detail, Range Gate Guards and Range/Target Operator, reinforcing their duties and responsibilities on the conduct of the range operation.	
3	Directs and supervises that the required designated areas of the range are established and set up as required/planned.	
4	Establishes primary radio and secondary telephone communications with Range Operations, and notifies Range Operations upon initial occupation.	
5	Ensures that the red range flag is displayed during daylight operations, and that the red flashing light on the flag pole is displayed during periods of limited visibility.	
6	Verify that the down range portion of the range and impact area are clear of unauthorized personnel and that the appropriate range specific safety measures for range gates, barriers, gate guards and danger areas directed by Range Operations have been taken (Refer to paragraph 2.5 of this SOP).	
7	Verify that the required medical personnel and equipment support is on site, with strip maps to local medical treatment facilities is present, prior to requesting a HOT status.	
8	Verify the continuous safety and security of ammunition on the range. 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.	

9	Verify that all weapons are mechanically safe to fire.	
10	Verify that all personnel wear the required personal protection equipment.	
11	Ensures that ONLY authorized courses of fire are conducted per the weapon system.	
12	Ensure all applicable references and regulations are physically present and on hand:	
13	Notifies Range Operations and requests permission to place the range in a HOT status (Refer to paragraph 7.1).	
14	Implements risk management actions and applicable control measures identified for this phase of the range operations and/or training event.	

#### 4.2.4 OIC Actions & Procedures during Operations

STEP	ACTION	TAKEN
1	Be present at all times in the range tower while the range is in a HOT status, and maintains a constant observation of the firing line at all times during range firing.. Be prepared to meet and brief all range visitors/VIPs, and Range Operations personnel.	
2	Verify that all personnel prior to firing receive a range safety briefing, and that only authorized weapons and ammunition are about to be used.	
3	Ensures that the left and right range limits are marked and identified by red blinking lights or chem-lights during periods of reduced visibility.	
4	Verify that the quantity of ammunition unpacked at the designated ammunition storage site is kept to the minimum number of rounds needed for efficient firing for the exercise/course of fire being conducted.	
5	Notifies Range Operations when first round is fired down range (Refer to paragraph 7.2).	
6	Ensures that primary and secondary means of communication with Range Operations are maintained, and that hourly radio checks are performed (Refer to paragraph 7.8)	
7	Ensures that communications are maintained with all road/gate guards.	
8	Verify that personnel and/or weapons do NOT move to or leave the firing line without being cleared, and only on permission by the Range Safety Officer.	
9	Maintains a constant observation of the firing line at all times, and that the down range safety danger areas remain clear.	
10	Immediately calls or announces a self-imposed "Cease Fire" and notifies Range Operations when (Refer to paragraph 7.5):	
10a	Any unsafe action is observed or reported by ANY individual observing an unsafe act.	
10b	When communications are lost with Range Operations and/or Gate Guards.	
10c	When any personal injury, major weapon or ammunition malfunction occurs.	
10d	When any personnel, vehicle, animal or aircraft is observed down range, or in the safety zone danger areas.	
10e	When a range or woodland fire is observed.	
10f	When any rounds or projectiles are observed to land outside the prescribed impact area (NOTE: particular attention should be made on ranges 2, 6 and 12).	
10g	Whenever the OIC, RSO, or medical support leaves the range	
11	Verify that all weapon malfunctions are handled IAW applicable FM/TM.	
12	Ensures that all misfires, hang fires, or cook-offs are handled IAW appropriate FM/TM.	
13	Notifies Range Operations when a change in OIC/RSO is needed (refer to paragraph 7.7).	
14	Notifies Range Operations when last round is fired down range (refer to paragraph 7.3).	
15	Implements risk management actions and applicable control measures identified for this phase of the range operations and/or training event.	

### 4.2.5 OIC Actions & Procedures after Operations

STEP	ACTION	TAKEN
1	Notify Range Operations upon completion of firing/training and request permission to go COLD (reference procedure 7.4). Be prepared to report:	
1a	Number of personnel trained.	
1b	Number of rounds expended by type and DODAC.	
2	Verify 100% accountability for all weapons and ammunition.	
3	Verify that ALL personnel are searched for ammunition, brass and CL recoverable items prior to their departure from the range.	
4	Notify Range Operations if applicable, on any duds observed.	
5	Contact Range Operations for range clearance/inspection after performing the following:	
5a	Range flag is lowered and red blinking lights are recovered (if applicable).	
5b	Police range for all brass, prescribed CL V recoverable items, packing material and unexpended ammunition are returned to the ASP.	
5c	Police range for all trash and place in local dumpster. NO MREs, kitchen waste or CL V ammunition dunnage will be placed in the dumpsters.	
5d	Check overall condition of the range to include all range support facilities and repair any range targets if applicable.	
5e	Road barriers, gates are re-opened and gate guards are recovered.	
5f	Hand receipted range equipment and supplies are recovered, cleaned and prepared for turn-in.	
6	Conduct a joint inventory IAW range clearance agreement with a Range Operations representative for clearance of range/training area.	
7	Return all hand-receipted range equipment, along with any applicable reports/forms to Range Operations.	

### 4.3 Range Safety Officer (RSO)

A direct representative of the Range OIC and responsible to the OIC for insuring the adequacy of safety of firing, training operations, and ensuring compliance to governing regulations and guidance.

#### 4.3.1 RSO Qualifications

A commissioned, warrant, or noncommissioned officer may serve as the RSO. NCO grade requirements will be in accordance with Table, 4-1 above, at a minimum. Personnel assigned as RSO will have NO other duties during that period of training. RSOs will be qualified on the weapon(s) systems being fired, and will have satisfactorily completed a range safety certification program in the weapon system(s) for which they are responsible conducted by their Battalion/Unit (O5 & above Command) to which they are assigned.

#### 4.3.2 RSO Actions & Procedures before Operations

STEP	ACTION	TAKEN
1	Assist the Range OIC in the planning of the range operation and/or training activity when needed or as applicable to ensure its safe and efficient operation.	
2	Be weapons system(s) qualified, and that his/her command safety certification and appointment is completed, and on file at Range Operations.	
3	Receive the mandatory Range Operations briefing prior to use of range/training facility.	
4	Ensure that all personnel appointed to assistant range safety positions are qualified and familiar with the provisions of this SOP, West Point Reg. 350-11, AR/DA Pam 385-	

	63, and the FM/TMs governing the weapon(s) system and ammunition to be fired.	
5	Ensure that all personnel appointed to assistant range safety officer (ARSO) roles are briefed. Recommended ratio of ARSO's to shooters is 1:5.	
6	Ensures that the down range portion of the range and visible portion of the impact area are clear of unauthorized personnel prior to range OIC requesting the range be placed in a HOT status.	
7	Ensures that the required medical personnel and equipment support is on site and remains on site at all times while the range is in a HOT status.	
8	Ensures the continuous safety and security of ammunition on the range.	
9	Assist the Range OIC when needed or as applicable to ensure that the requirements for procedures 4.2.2 and 4.2.3 above are met.	

### 4.3.3 RSO Actions & Procedures during Operations

STEP	ACTION	TAKEN
1	Be present at all times on the range firing line while the range is in a HOT status, and perform NO other duties except that of the RSO. Ensure safety is paramount.	
2	Receive and organize firing orders, and conduct the following:	
2a	Ensure that all personnel prior to firing receive a range safety briefing, and that only authorized weapons and ammunition are about to be used.	
2b	Ensures that all weapons are mechanically safe to fire.	
2c	Ensures that all personnel wear the required personal protection equipment, and that left handed firers have brass deflectors installed on their weapon.	
2d	Verifies the proper type and quantity of ammunition issued to each firer, and ensures that ammunition unpacked is kept to a minimum to ensure efficient firing of the course of fire being conducted.	
3	Ensures that all personnel and/or weapons do NOT move to or from the firing line without being cleared, and only on the permission of the RSO.	
4	Maintain a constant observation of the firing line at all times, and that the visible down range safety area remains clear.	
5	Ensures that all weapons engage targets ONLY within their prescribed lane markers, and that all rounds fired down range remain within the prescribed range limits.	
6	Immediately announces and calls for a self-imposed "CEASE FIRE" and notifies the Range OIC when any of the following is heard or observed:	
6a	Any unsafe action is observed or reported by ANY individual observing an unsafe act.	
6b	When any personal injury, major weapon or ammunition malfunction occurs.	
6c	When any personnel, vehicle, animal or aircraft is visually observed down range.	
6d	When a range or woodland fire is observed.	
6e	When any rounds or projectiles are observed to land outside the prescribed impact area.	
6f	Whenever the medical support leaves the range.	
7	Ensure that the range ammo issue point maintains accurate and proper accountability of all CL V items during operations on DA Fm 3020-R.	
8	Ensure that all weapon malfunctions are handled IAW appropriate FM/TM.	
9	Ensures that all misfires, hang fires, or cook-offs are handled IAW applicable FM/TM.	
10	Notifies Range OIC when a change in RSO is needed (refer to paragraph 7.7).	

### 4.3.4 RSO Actions & Procedures after Operations

STEP	ACTION	TAKEN
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1	Ensure 100% accountability for all weapons and ammunition.	
2	Ensure that ALL personnel are searched for ammunition and brass prior to their departure from the range.	
3	Report to the Range OIC upon completion of firing/training the following:	
3a	The number of rounds expended by type and DODAC that was issued and tracked by the ammo issue point NCOIC.	
3b	The police of brass on the firing line, and that all brass, prescribed CL V recoverable items, packing material and unexpended ammunition has been accounted for and is prepared for turn-in to the ASP.	
3c	The police of the range overall for all trash, and that the designated areas of the range that were established are recovered back to the original condition.	
3d	That all range targetry repair has been completed if applicable, and that the overall condition of the range and support facilities are in the original condition.	
3e	All hand receipted range equipment and supplies are recovered, cleaned and prepared for turn-in to the Range OIC and/or Range Operations.	
4	Assist the Range OIC when needed or as applicable to ensure that the requirements for procedures 4.2.5 above are met.	

#### 4.4 Range Gate Guards

The Range OIC will ensure gate guards are posted and gates are locked as required for the range being utilized as outlined in paragraph 2.5. Gate guards will be briefed on their duties, the training that is being conducted and perform their duties IAW West Point Reg. 350-11. Personnel acting as gate guards will:

STEP	ACTION	TAKEN
1	Greet all visitors, provide a short explanation of the training being conducted, identify the Range OICs name and location on the range, and warn of live firing as appropriate. They will direct authorized visitors to a specific location where the visitors will be met by the Range OIC. When entrance to the range is not authorized, the gate guard will advise visitors to wait or to use another route.	
2	Maintain <u>continuous</u> radio communications with Range Operations or with the Range OIC accordingly. The arrival of visitors will be reported immediately to the Range OIC. If the gate guard is unsure whether a visitor is authorized on the range, the gate guard will contact the Range OIC for clarification before granting entrance.	
3	Remain at the gate shack or the gate if no shack is present. Maintain the assigned gate while the range is occupied.	
4	POV's will NOT be used to assist in barrier control or gate guard duty.	
5	Permit Range Operations personnel and vehicles full and un-restricted access to all ranges and training areas while performing their assigned duties.	



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## 5. Range Medical Requirements & Evacuation

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### 5.1 Unit Medical Support Requirements

Units will comply with the following range medical support requirements:

- a. For AT4, claymore mine and MK19, using units will provide the following medical support:
  - (1) A trained medical aid person, MOS qualified. This individual will be equipped with a litter, radio communication, and a complete medical aid bag, containing all required CL VIII items that have a valid expiration date.
  - (2) A dedicated medical evacuation vehicle, capable of transporting a litter, and properly equipped, and with a current PMCS. Medical aid personnel assigned to these ranges, along with the supporting medical vehicle, will not be used for any other duty.
- b. For firing of 9mm tracer trainer with the M287 trainer, using units will provide the following medical support:
  - (1) A current qualified Combat Lifesaver (MOS immaterial). This individual will be equipped with a litter, radio communication, and a Combat Lifesaver (CLS) aid-bag, containing all required CL VIII items that have a valid expiration date.
  - (2) A dedicated medical evacuation vehicle, capable of transporting a litter, and properly equipped, and with a current PMCS. CLS personnel assigned to these ranges, along with the supporting medical vehicle, will not be used for any other duty.

#### 5.1.1 Execution

- a. Using unit medical personnel will review and familiarize themselves with the strip map route(s) to KACH ER and the local community hospital prior to live fire range operations are conducted.
- b. Whenever the dedicated medical aid person or vehicle must leave the area for any reason the range must Cease Fire and remain in a "COLD" status until a replacement is provided, or until the assigned vehicle and medical personnel have returned to the range. Range Operations will then grant the unit permission to re-open the range and place the range in a "HOT" status.
- c. Medical support personnel at the range will provide treatment for minor injuries and basic first-aid for life-threatening injury or illness.
- d. Medical evacuation vehicles will display all frequencies and telephone numbers in case of immediate use:
  - a. Range Operations Frequency is Motorola Handheld "livefire" Channel.
  - b. West Point Fire & Emergency Services Division – 845.938.5197
  - c. Range Operations VHF 126.20.
  - d. KACH ER – 845.938.4004 / 5169.

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### 5.2 Keller Army Community Hospital (KACH)

Injuries and/or illness requiring immediate emergency support will be immediately reported to the KACH ER, with the location of the range site for patient evacuation by KACH.

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### 5.3 Serious Incident Report (SIR) Requirements

Full and immediate medical attention directed at the patient is the first and foremost priority. As soon as possible, the Range OIC or RSO will contact Range Operations and report the medical injury/accident. Be prepared to provide at a minimum "the Five W's" (Who, What, When, Where and Why).

## 5.4 Emergency MEDEVAC Flight Requests

West Point does NOT have organic MEDEVAC capability to support training complex operations, therefore using units and organizations will plan medical evacuation with their own organic assets. Stat Flights are for the emergency evacuation of injured personnel by air ambulance. Only the emergency first responder on site, DES dispatcher or KACH medical personnel are authorized to request or terminate a MEDEVAC mission. To airspace clearance for a Stat Flight, contact Range Operations by Motorola Handheld "Livefire" Channel or by telephone at (845)938-3930. After Hours the Military Police Dispatch at (845)938-3333. Air Frequency is VHF 126.20.

9-LINE MEDEVAC		
ANNOUNCED		LINE INFO DESCRIPTION
LINE	LINE INFO	
1		Location of the Pick-Up site by 6-digit grid and any prominent terrain features nearby.
2		Unit Identification
3	A= B=	Number of Patients by evacuation category/precedence A=Urgent (requires immediate evacuation to prevent loss of life B=Priority (serious injury, but <u>NOT</u> life threatening
4	A= B= C= D=	Special equipment needed: A=none B=hoist C=extraction equipment D=ventilator
5	A= B=	Number of patients A=litter B=ambulatory
6		Number and types of wounds, injuries and illnesses
7		Method of marking landing zone/pick-up site A=panels B=pyrotechnic signal C=smoke signal D=none E=other
8		Patient nationality and status A=US military B=US civilian C=other (describe)
9		Terrain description of pick-up site, any site hazards; if none=so state

## 5.5 Hospital Strip Maps & Directions

### 5.5.1 Keller Army Community Hospital

Reference Tab 11A, Local Strip Map to Keller Army Community Hospital

### 5.5.2 St. Luke's Community Cornwall Campus Hospital, Cornwall, NY

Reference Tab 11B, Local Strip Map to Saint Luke's Community Hospital.

## 6. Range Concept of Operations

Range OIC's should refer to the current publication of DA Pamphlet 350-38, Standards in Training Commission (STRAC). STRAC strategies reflect by unit type each of the specific weapons training strategies and the training doctrine from the appropriate Army Field Manual. This strategy outlines individual weapon training standards, and reflects tables showing the task and ammunition resources required.

### 6.1 AT4 Antiarmor Weapon

#### 6.1.1 M287, AT4 Subcaliber 9mm Tracer Trainer

- a. The M287 9-mm tracer trainer is used to fire the instructional, qualification and advanced instructional firing tables for the M136 AT4. Range 7 provides for ONLY stationary targets for tables 1-4, as there are NO moving targets on range 7.
- b. Range 7 does NOT support the firing of table 5 for volley firing of the M287.

Reference Appendix B-4, FM 3-23.25, for operator actions and functions checks for the M287 Trainer.

- c. Table 1 (Instructional) and Table 3 (Qualification) are used for day firing.
- d. Table II (Instructional) and Table 4 (Qualification) are used for limited visibility with artificial illumination.

Reference Appendix E, FM 3-23.25, for performance measures for firing tables 1 thru 4.

#### 6.1.2 M136, AT4 HE

NOTE: Range 7 RESTRICTED to only one (1) M136, AT4 HE to be fired at a time No Prone firing.

- a. The M136 AT has a closed chamber; therefore it has slight recoil. When fired, pressure builds up in the chamber and ruptures the baseplate as gasses exit the back of the weapon forming a back blast.
- b. The back blast area extends 100 meters to the rear of the launcher in a 90-degree fan.
- c. The **ENTIRE** back blast area should be marked off limits and kept clear of personnel and equipment.

#### DANGER

Due to the extreme overpressure and noise created when this weapon is fired, ONLY approved hearing protection is used to provide sufficient hearing protection. To further reduce these hazards the firing limitations MUST be followed:

WITHIN A 24-HOUR PERIOD, A SOLDIER MAY ONLY FIRE, OBSERVE FIRE, OR ACT AS SAFETY NCO FOR THE M136 AT4 ONE TO THREE TIMES, DEPENDING UPON THE FIRING POSITON USED	Three (3) times (total) if the AT4 is fired from either the standing position or kneeling position.
	OR
	Two (2) times if the AT4 is fired from the sitting position.
	OR
	One (1) time (total) if the AT4 is fired from either the prone or the fighting position.

- d. A misfire is a complete failure to fire caused by a procedural or mechanical failure. A misfire is usually caused by one of the following factors:
  - 1) The forward safety is not depressed far enough to disengage the safety.
  - 2) The firing mechanism is faulty.
  - 3) The propelling charge explosive train is faulty.
- e. If a misfire occurs the soldier responds "MISFIRE" and performs the following:
  - 1) Maintain the original sight picture.
  - 2) Release the forward safety.
  - 3) Recock the launcher by removing right hand from the firing mechanism and pushing the cocking lever forward with the heel of the right hand until the lever locks with a loud clicking noise.
  - 4) Press the forward safety all the way down and try to fire the again.
  - 5) If the launcher still fails to fire, shout "MISFIRE", release the forward safety, and move the cocking lever to the SAFE (uncocked) position. Move the launcher from your shoulder, keeping the weapon pointed safely downrange and cradled in your left arm.
  - 6) Reinsert the transport safety pin, then hold weapon cradled with both arms, wait two minutes, then carefully lay the launcher on the ground, muzzle pointed down range.
  - 7) Notify Range Operations of the misfire and then notify West Point ASP.

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## 6.2 MK19 40mm Grenade Machine Gun, MOD 3

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NOTE: Although individual gunnery exercises train and qualify individual MK19 gunners only, it is implied then when performing MK19 firing, proper crew drills are performed as part of the appropriate tables to be fired.

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- a. MK19 firing when fired from the ground dismounted position MUST use a complete MK 64 MOD 7 gun cradle, M3 tripod and T&E mechanism with the MK19 weapon system.
- b. MK19 firing may be fired from a vehicle platform MUST use a complete MK 64 MOD 7 gun cradle, T&E mechanism and locking pin with the MK19 weapons system.
- c. Range 7 supports MK19 familiarization firing ONLY, that requires the gun crew to prepare a range card and engage targets using data from the range card.
- d. Firing is RESTRICTED to 40mm TP (B584) ONLY.
- e. If applicable the Range OIC/RSO will ensure that all stoppages will be cleared through either immediate or remedial action procedures.
  - 1) Immediate action is the action taken to reduce the stoppage without investigating the cause. Proper immediate action steps will be conducted IAW Appendix C-1, FM 3-22.27.
  - 2) Remedial action steps will be taken if immediate action procedures do not end the stoppage. Proper remedial actions to clear stoppages will be conducted IAW Appendix C-2, FM 3-22.27.

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## 7. Radio Procedures

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### 7.1 Requesting a Hot Status

RANGE: RANGE OPERATIONS, THIS IS RANGE 7, OVER

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 7. REQUEST A HOT TIME, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS, DO YOU PHYSICALLY HAVE ON SITE REQUIRED MEDICAL SUPPORT WITH EQUIPMENT, RANGE SAFETY SOP BINDER, RED RANGE FLAG FLYING AND GATE GUARD WITH COMMO, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 7, YES, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. I GIVE YOU A HOT TIME OF \_\_\_\_\_ HOURS. MY INITIALS ARE \_\_\_\_\_. CONFIRM HOT TIME AND SEND YOUR RANGE OIC INITIALS, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 7. I CONFIRM HOT TIME OF \_\_\_\_\_. RANGE OIC INITIALS ARE \_\_\_\_\_, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. NOTIFY RANGE OPERATIONS WHEN FIRST ROUND IS FIRED DOWN RANGE. CONDUCT RADIO CHECKS WITH RANGE OPERATIONS HOURLY AT THE TOP OF THE HOUR, YOUR FIRST RADIO CHECK IS DUE AT \_\_\_\_\_. RANGE OPERATIONS OUT.

---

### 7.2 Reporting First Round Fired Down Range

RANGE: RANGE OPERATIONS, THIS IS RANGE 7, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 7. FIRST ROUND FIRED DOWN RANGE, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. I COPY FIRST ROUND FIRED DOWN RANGE AT \_\_\_\_\_, RANGE OPERATIONS OUT.

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### 7.3 Reporting Last Round Fired Down Range

RANGE: RANGE OPERATIONS, THIS IS RANGE 7, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 7. LAST ROUND FIRED DOWN RANGE, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. I COPY LAST ROUND FIRED DOWN RANGE AT \_\_\_\_\_, RANGE OPERATIONS OUT.

## 7.4 Requesting a Cold Status

RANGE: RANGE OPERATIONS, THIS IS RANGE 7, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE X. REQUEST A COLD TIME, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. I GIVE YOU A COLD TIME OF \_\_\_\_\_. MY INITIALS ARE \_\_\_\_\_. CONFIRM COLD TIME, SEND YOU RANGE OIC INITIALS, YOUR AMMUNITION QUANTITY EXPENDED BY TYPE/DODAC AND THE NUMBER OF PERSONNEL TRAINED, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 7. I CONFIRM COLD TIME OF \_\_\_\_\_. RANGE OIC INITIALS ARE \_\_\_\_\_. \_\_\_\_\_ (#) ROUNDS OF \_\_\_\_\_ (DODAC) EXPENDED, WITH \_\_\_\_\_ (#) PERSONNEL TRAINED, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS, ROGER, OUT.

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## 7.5 Requesting a Cease Fire Time

RANGE: RANGE OPERATIONS, THIS IS RANGE 7, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: THIS IS RANGE 7, REQUEST A CEASE FIRE TIME, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. I GIVE YOU A CEASE FIRE TIME OF \_\_\_\_\_ HOURS. MY INITIALS ARE \_\_\_\_\_. CONFIRM CEASE FIRE / ADMIN COLD TIME AND PROVIDE YOUR RANGE OIC INITIALS, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 7. I CONFIRM CEASE FIRE TIME OF \_\_\_\_\_. MY RANGE OIC INITIALS ARE \_\_\_\_\_, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS, ROGER, OUT.

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## 7.6 Requesting to Lift Cease Fire Time

RANGE: RANGE OPERATIONS, THIS IS RANGE 7, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 7. REQUEST TO LIFE CEASE FIRE TIME AND RETURN TO A HOT STATUS, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. I LIFT YOUR CEASE FIRE TIME STATUS AND PLACE YOU BACK INTO A HOT STATUS AT \_\_\_\_\_ HOURS. MY INITIALS ARE \_\_\_\_\_. CONFIRM RETURN TO HOT STATUS AND PROVIDE YOUR RANGE OIC INITIALS, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 7. I CONFIRM RETURN TO HOT STATUS TIME OF \_\_\_\_\_. MY RANGE OIC INITIALS ARE \_\_\_\_\_, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS, ROGER, OUT.

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## 7.7 Change of OIC / RSO.

RANGE: RANGE OPERATIONS, THIS IS RANGE 7, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. GO AHEAD, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 7. REQUEST A CHANGE OF OIC (or RSO), OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. SEND THE LAST NAME AND THE INITIALS OF THE NEW RANGE OIC (or RSO), WITH YOUR INITIALS, OVER.

RANGE: RANGE OPERATIONS, THIS IS RANGE 7. NEW OIC / RSO LAST NAME IS \_\_\_\_\_, NEW OIC / RSO INITIALS ARE \_\_\_\_\_. MY INITIALS ARE \_\_\_\_\_, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS. ROGER, OUT.

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## 7.8 Requesting a Radio Check (Hourly at the Top of the Hour)

RANGE: RANGE OPERATIONS, THIS IS RANGE 7. RADIO CHECK, OVER.

RANGE OPERATIONS: RANGE 7, THIS IS RANGE OPERATIONS, ROGER RADIO CHECK, OUT.

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## 8. Range Safety Brief

All firers will be briefed on the following items. This general safety brief is not all inclusive and requires the Range OIC / RSO to include commander's guidance, and/or any unit specific or other situational dependent areas of concern.

NOTE: Insert range, weapon and course of fire specifics that are required and/or applicable.

1. Identify the Range Officer in Charge (OIC) and the Range Safety Officer (RSO) at a minimum.
2. Identify the Location of Range Staff Cadre:
  - a) Range OIC and RSO
  - b) Assistant Range Safeties
  - c) Medic & the Evacuation Vehicle
  - d) Ammo Issue Point/Breakdown Building and CL V NCO
  - e) Others as required
3. Prescribed uniforms and personal protection requirements (hearing, eye, helmet and IBA as applicable and required) while on the range.
4. Course of fire and standards for the weapon system being fired.
5. Locations: Break/Smoking Areas, latrines, mess area, firing line and/or firing points, clearing barrels, parking and bleacher site. Also include any off limit or restricted areas.
6. Ammunition holding area/ issue point procedures & security.
7. Left, right limits, fire and no fire zones.
8. Procedures for Medical Emergency.
9. Procedures for range fires.
10. Severe weather plan, environmental requirements, issues and concerns.
11. NO food or beverages on firing line unless directed by OIC except water.
12. Leave all WILDLIFE at this range alone.
13. ALL VEHICLES on this Range will have a GROUND GUIDE.
14. Movement on firing line is directed by OIC.
15. NO pushing, NO shoving or horseplay at ANY time.
16. Unit is responsible for a personnel & vehicle shakedown for ammo & brass. No one will leave the range until this has been completed.
17. If you observe ANY UNSAFE situation, personnel, vehicles, aircraft, or wildlife down range call & indicate "CEASE FIRE" IMMEDIATELY everyone on the firing line echo "CEASE FIRE". Place all weapons on safe until the OIC or RSO have investigated the situation and declared it safe to resume training.
18. While on this Range you will take ALL COMMANDS FROM THE TOWER while on the firing line. Load weapon when instructed to do so by the tower or lane safety.
18. Weapon will remain in the SAFE POSITION unless otherwise specified by the ROIC.
19. No jumping into fox holes, off walls or firing tables. Inspect the firing position prior to entering for poisonous or harmful animals or insects.
20. Weapon malfunction apply immediate action to correct problem IAW appropriate FM if this fails apply remedial action, if this fails notify lane safety who will notify RSO to assist in correcting the malfunction.
21. ALL WEAPONS WILL BE CLEARED PRIOR TO, AFTER AND BEFORE ANY WEAPON IS MOVED FROM THE FIRING LINE. Once cleared off firing line, turn in all ammunition and expended brass to AMMO POINT.
22. When not on the firing line the bolt will be locked to the rear and the weapon on safe. Consider the weapon loaded at all times never point it at anyone.
23. Shooters will not hand a weapon to another person until it has been properly unloaded/cleared and the bolt has been locked to the rear, unless instructed to do otherwise by Range Safety.
24. MUZZLE AWARENESS:
  - a) Maintain positive control of your weapon at all times, LEVEL & DOWN RANGE!
  - b) Keep finger OUTSIDE trigger guard until directed to engage &/or fire
  - c) Be sure of YOUR target! Ensure soldiers fire weapon at designated targets only. ( See diagram page 28 for target engagement criteria.)



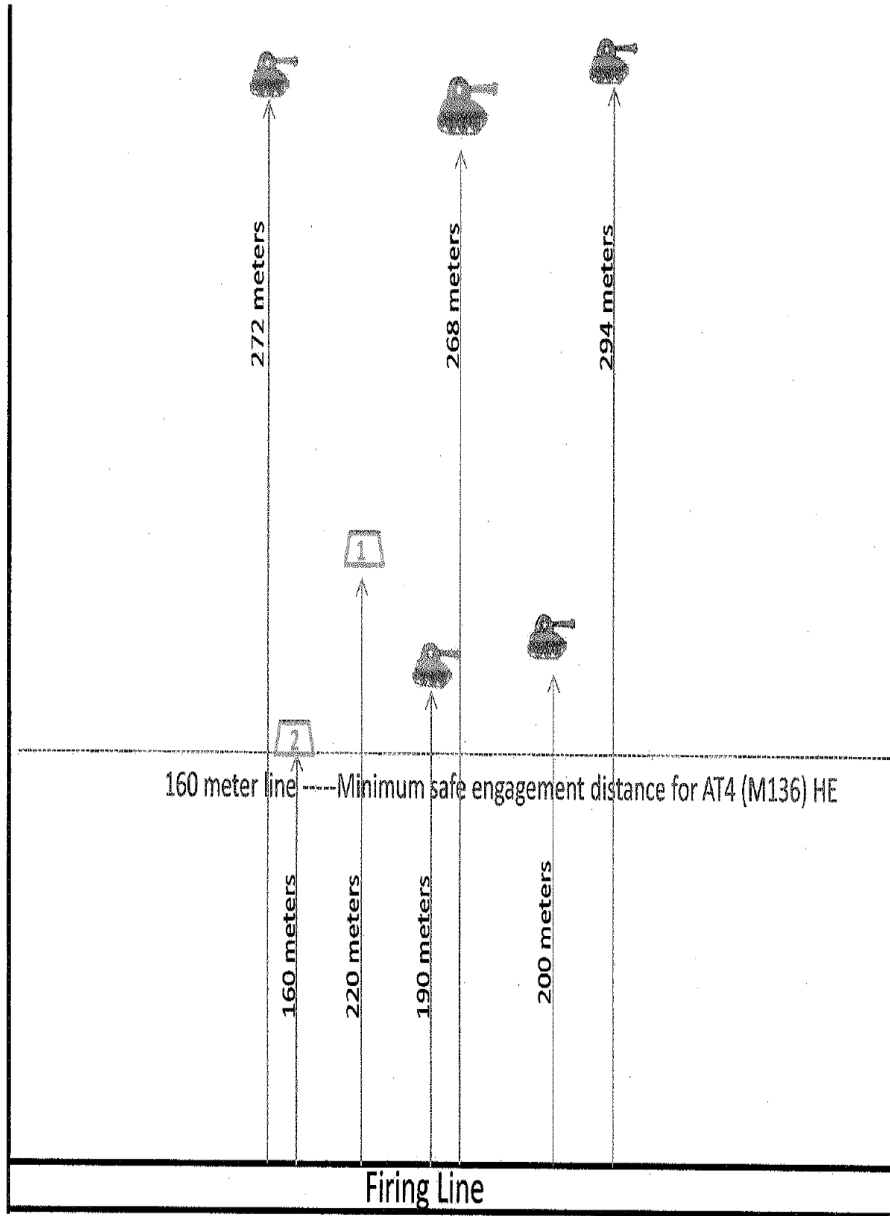
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## 9. Risk Management & Mitigation

Range OIC will review, add and update DA Form 2977, Deliberate Risk Assessment Worksheet.

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Range 7 range card



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## 10. Reference Information, Reports & Forms

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### INDEX

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<b>TAB</b>	<b>NAME</b>
11A	Local Strip Map to Keller Army Community Hospital
11B	Local Strip Map to Saint Luke's Cornwall Community Hospital
11C	Open

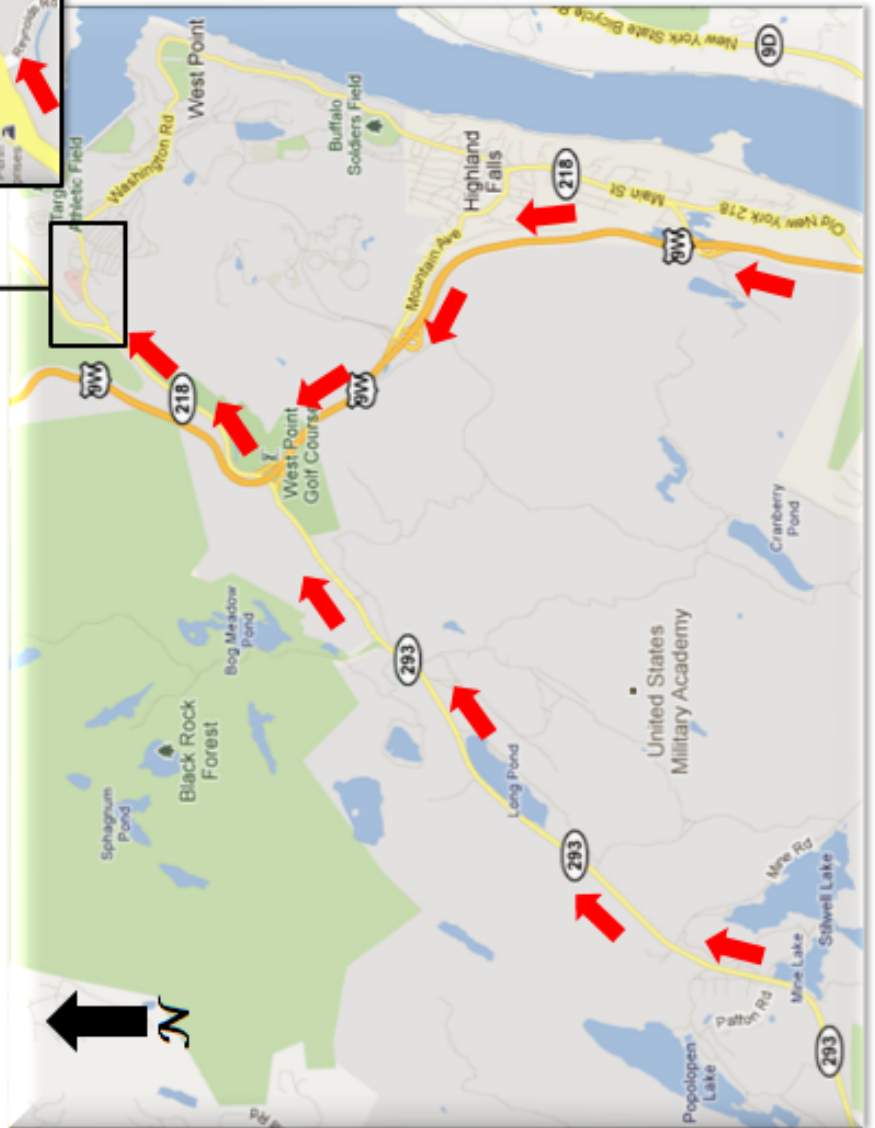
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**DIRECTIONS**

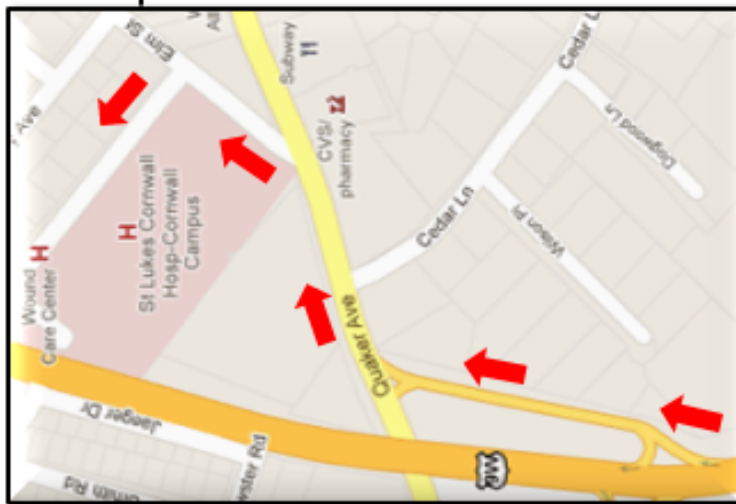
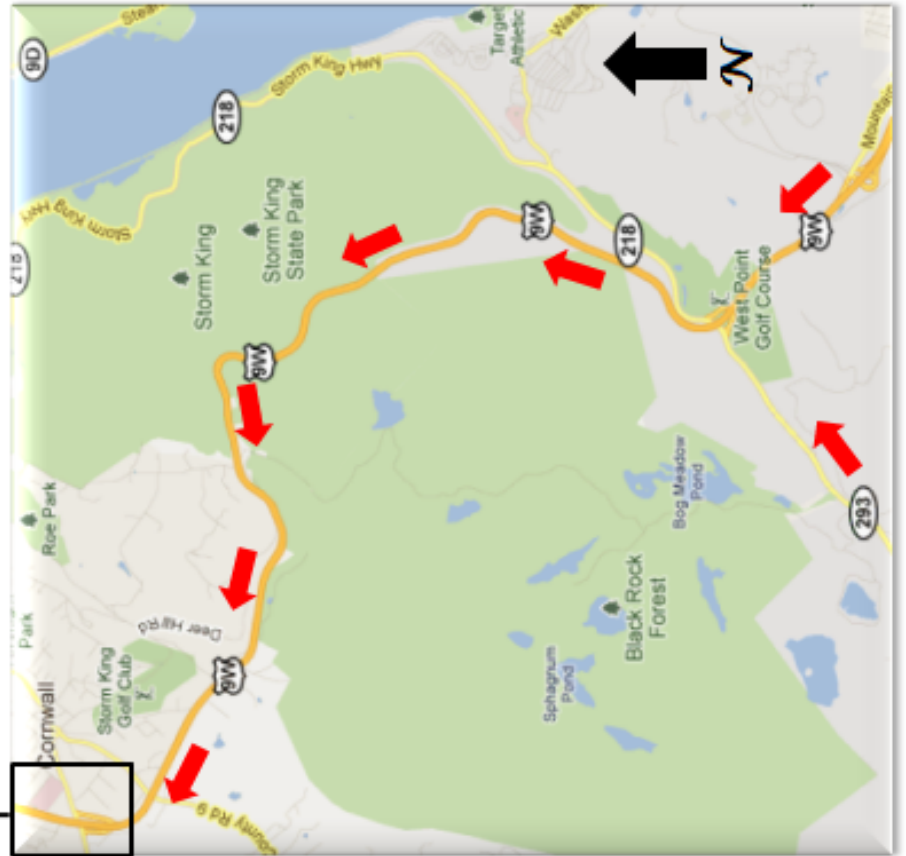
- North on Route 293 or 9W.
- Exit onto Route 218 N (approx. 1.2 miles to Washington Road Gate).
- Enter Installation via Washington Road Gate.
- Keller Army Community Hospital is on the left (approx. 3/10 miles from Washington Road gate).

**LOCAL STRIP MAP TO  
KELLER ARMY COMMUNITY HOSPITAL  
Phone #: (845) 938-4004**



Tab 11A – Strip Map – Keller Army Community Hospital

**LOCAL STRIP MAP TO  
ST. LUKES WOUND CARE CENTER  
&  
ST. LUKES CORNWALL HOSPITAL  
Phone #: (845) 458-4512**



**DIRECTIONS**

- North on Route 293 or 9W.
- Continue North on 9W to Cornwall.
- Exit 9W onto Quaker Ave exit.
- Turn left onto Elm Street.

Tab 11B – Strip Map to St. Luke’s Cornwall Hospital