

## RANGE AND TRAINING REGULATIONS

<b>Range:</b> R131	<b>Lateral Limits:</b> As stated in Special Instructions		<b>Min/max Engagement Distance:</b> As stated in Special Instructions	<b>Range Facilities:</b> See Spl Inst
<b>Location:</b> 620 847	<b>Boundaries:</b> As depicted			
<b>Type:</b> MOUT Facility				
<b>Troop Penetration Line:</b> Not beyond boundaries of the facility	<b>Impact Area:</b> X-Ray	<b>Range Phone Number(s):</b> None	<b>Allowable Munitions:</b> As listed below	<b>Assigned to:</b> CO, MCB  <b>Date Revised:</b> 11 December, 2007

### GENERAL INSTRUCTIONS

1. **A safety Brief will conducted prior to each live fire event to all participants.**
2. IOT occupy this range unit must have the following personnel/equipment:
  - RSO
  - Corpsman & Safety Vehicle
  - Positive Communication with LONGRIFLE
  - If ammunition is present on range - Ammo Guards will be armed.
3. IOT go into a hot status on range unit must have the following personnel/equipment:
  - OIC
  - RSO
  - Corpsman & Safety Vehicle
  - Positive Communication with LONGRIFLE
4. **RSO will verify the left and right lateral limits utilizing a compass and map.**
  - Overall range lateral limits will be identified.
  - Each firing position lateral limits will be identified.
5. The RSO & OIC will personally observe each live fire event.
6. **A signed ORM must be on hand IOT conduct training.**
7. **A non-participating Corpsman will be stationed with safety vehicle.**
8. **A full rehearsal will be conducted prior to live fire.**
9. **Unit is required mark/post signs for any lateral limits and/or MSLs listed in this brief if not already marked/posted.**
10. **Minimum engagement distances for RETS or PITS targets is as follows:**
  - 25 meters – 5.56mm
  - 100 meters – 7.62mm and above
11. **At no time will any unit go from live fire to blank or SESAMS force-on-force within a 24 hour period**
12. **At any time Range guards are required, they will be posted in pairs with positive communication with the RSO.**
13. Ammunition will only be issued per event and accounted for on NAVMC 11381.
14. After each event, unit leaders will conduct a line out.
15. Each RSO will certify to the OIC that all weapons are in Condition 4 prior to exiting the range and all ammunition is accounted for.
16. Ensure all weapons are cleared and inspected prior to departing the firing line.
17. All weapon malfunctions shall be corrected per the appropriate TM/FM, and unit SOP.

**Special Instructions Continued on Next page**

## RANGE AND TRAINING REGULATIONS

### SPECIAL INSTRUCTIONS

1. The R131 consists of 29 buildings (one, two- and three-story), 14 that are intact and 15 that have been partially rubble. In addition, there are nine ghost buildings to simulate buildings which have been completely destroyed). The town has been divided into four training areas.
  - a. **AREA I.** Area I is primarily the residential section of the town with one- and two-story buildings. It has a gas station, houses, apartment buildings, a school, and a playground. It has seven buildings intact, five partially rubble, and four ghost buildings.
  - b. **AREA II.** Area II is the central business district consisting of a hotel, office buildings, and a town square. It has four buildings intact, four partially rubble, and one ghost building.  
**AREA III.** Area III is a combination of business and housing development. It has office buildings, apartments, and a school. It has two buildings intact, six partially rubble, and three ghost buildings.
  - c. **AREA IV.** Area IV consists of the sewer system trainer and one intact building which provides access to the sewer system trainer. The sewer system trainer consists of nearly one-half mile of 3 1/2 foot sewer pipe. Access to the sewer system trainer may be obtained through 16 street grates located throughout the Town, a manhole cover in Area III, and an animal grate located outside the Town.
2. The RSO for the MOUT (with no SESAMs/Less Lethal) must be an E-5 or above. Areas I - IV require a single RSO per training unit; however, the RSO must be augmented with one PSO per area.
3. Bivouacking in the buildings is authorized to support training.
4. A Police Call will be conducted of the town footprint and all areas used by the unit and inspected prior to any unit departing this facility. If Co-Use was authorized, RSOs from all units involved will be present for the inspection.
5. All vehicles not involved in training shall be parked in the designated parking lot.
  - a. Privately owned vehicles (POVs) are prohibited from entering the Town unless prior coordination is made with the Range Control Officer and that the vehicle will play a role in a scenario.
6. Creation of additional mouse holes in buildings is prohibited.
7. Portable toilets will be used vice field expedient heads.
8. Trenches or fighting holes will not be dug due to buried electrical cables.
9. Open fires are prohibited (to include squad stoves).
10. Pyrotechnics -
  - a. All pyrotechnics, flash bangs or any booby trap simulator, must be initiated from within the footprint of the town and all effects must land within the footprint of the town.
  - b. Booby trap simulators are to be placed below knee-level.
  - c. The RSO must ensure all booby trap devices are removed when training is completed and inform the OIC when accomplished.
  - d. Vertical Hazard of Aerial Pyrotechnics is 705' AGL.
  - e. Use of aerial pyrotechnics is not authorized at FDRs of High, Very High or Extreme.
11. Artillery Simulators -
  - a. All artillery simulators will be supervised by a PSO specifically trained and assigned by the RSO.
  - b. Use simulators for their intended purpose only.
  - c. Do not use them to simulate hand grenades.
  - d. They must not be activated in loose gravel, sticks, flammables (i.e. leaves, etc.) or any other material subject to projection.
  - e. Observe safe separation distances from unprotected personnel at all times.
  - f. Personnel are considered protected if they are in a armored vehicles, building, dug in emplacement (Any digging must be pre-approved by the RCO), personnel are masked by terrain or device is detonated in designated barricaded pit.
  - g. Safe separation distances for unprotected personnel are:
    - i. M116A1 - 60 meters
    - ii. M115A2 - 35 meters

## RANGE AND TRAINING REGULATIONS

### 12. CS & HC Smoke Operations

- a. Training must be supervised by NBC personnel – NCO & Above - (MOS 5702/5711 or equivalent).
- b. Due to CS causing involuntary eye closure, no person may ride in the cab of a government vehicle, or operate a government vehicle after exposure.
- c. Additionally, personnel shall not drive any vehicle (government or personal) for two (2) hours after exposure, or until they take a thorough shower.
- d. Under no circumstances will CS capsules or CS powder be introduced into grenade materials.
- e. CS or tearing agent grenades shall not be used in confined spaces (e.g., chambers, tents, and buildings).

### 13. Aviation Operations

#### a. UAV's

- i. **UAV operations are unauthorized** unless prior approval has been granted via a face-to-face meeting with the RCO **no latter than 7 days prior to the exercise.**
- ii. If approval is granted, a graphic depiction of the ACA (Air Coordination Area) showing routes and altitude will issued by the RCO for that event only.
- iii. Annual waivers for this requirement shall not be approved.

- b. Helicopters are prohibited from landing on rooftops.

### 14. Rappelling & Grappling Hooks

- a. All rappelling/fastrope training is conducted under the supervision of a certified Rappel/HRST Master.
- b. Grappling hooks are used only on windows designed for their use (refer to figure).

### 15. During Less Lethal & SESAMS Training:

- a. RSO must be a SSgt (E-6).
- b. All effects must be contained within the area(s) the unit has scheduled.
- c. All participating personnel or **any unit that has been authorized co-use within the same area,** shall wear flak, kevlar, throat/groin protector, contact gloves, utilities, and approved masks.
- d. All personnel will wear the specified gear when inside the safety footprint.
- e. The RSO shall assign a minimum of two NCOs or higher act as PSOs.
- f. For SESAM, the PSOs will ensure that there are no intentional headshots and no engagements closer than 5 feet.
- g. All SESAMS magazines will be clearly marked, as will the barrels.
  - i. The safety footprint will be established and manned by Range Guards positions or will have signs emplaced.
- h. RSO shall ensure all SESAMS training is conducted IAW SOUM 1-02.

### 16. During breaching operations:

- a. The breach will consist of a field expedient urban breaches (duel primed) at no more than .78 lbs.
- b. Max Ord is 386 feet for vertical or fragmentation hazard.
- c. A maximum K – Factor of 18 (3.5 PSI) will be utilized and all personnel are to follow the below unshielded safety standoffs.
- d. If shielded, RSO may reduce standoff by 50%.
- e. Double hearing protection required for all PSIs at or above 1.68.
- f. Only breacher rounds shall be used for shotguns.
- g. Unit shall provide framing/doors to protect structure from any damage.

#### K FACTOR

	40	30	24	18	11	9	6
NEW OF CHARGE (TNT EQUIVALENT)	1.2 -.9 PSI	1.7 PSI	2.3 PSI	3.5 PSI	8 PSI	12 PSI	27 PSI

#### Distance in Feet From Detonation

0.04	13.67980757	10.25985568	8.207884544	6.155913408	3.761947083	3.077956704	2.051971136
0.23	24.50777027	18.38077703	14.70462162	11.02846622	6.739618243	5.514233108	3.676155405
0.26	25.5300172	19.1475129	15.31801032	11.48850774	7.020754729	5.744253869	3.829502579
0.5	31.74802104	23.81101578	19.04881262	14.28660947	8.730705786	7.143304734	4.762203156
0.78	36.82065633	27.61549225	22.0923938	16.56929535	10.12568049	8.284647674	5.52309845

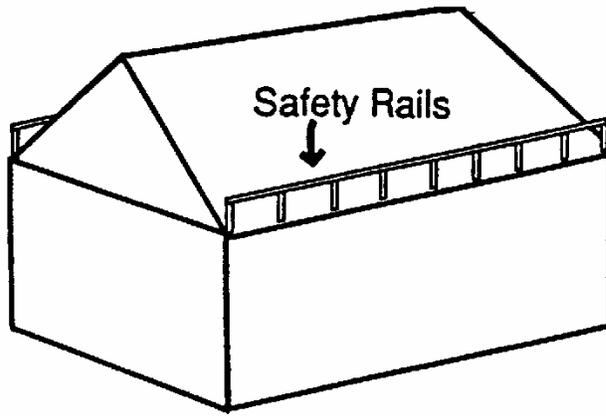
**Special Instructions Continued on Next page**

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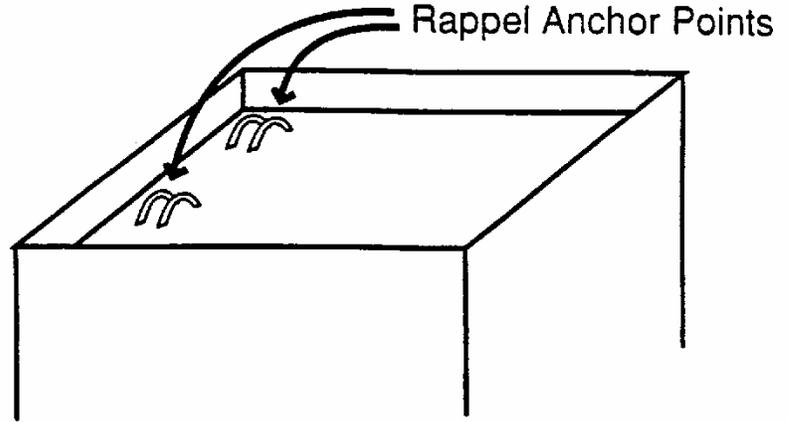
<b>Authorized Munitions</b>		
<b>DoDIC</b>	<b>Description</b>	<b>Remarks</b>
A075	5.56 LINK BLANK	
A080	5.56 BLANK	
A111	7.62 LINK BLANK	
AA12	9MM FX RED MARKING CARTRIDGE, SIMMUNITION	<b>SESAMS</b>
AA21	9MM FX BLUE MARKING CARTRIDGE, SIMMUNITION	<b>SESAMS</b>
AA29*	12 GAUGE BEANBAG	<b>Less Lethal</b>
AA30*	12 GAUGE BLANK LAUNCHING	<b>Less Lethal</b>
AA31*	12 GAUGE FIN STAB RUBBER	<b>Less Lethal</b>
BA07*	40MM FOAM RUBBER BATON	<b>Less Lethal</b>
BA08*	40MM RUBBER BALL	<b>Less Lethal</b>
BA09*	40MM WOOD BATON	<b>Less Lethal</b>
B535*	40MM WHITE STAR PARACHUTE	
CWDC*	12 GAUGE INERT	
DWBS	CHG DIVERSIONARY/FLASHBANK	
G811	GRENADE BODY PRACTICE	
G878	GRENADE PRACTICE FUSE	
G895*	GRENADE HAND ILLUMINATION	
G924*	GRENADE HAND RIOT CS PACK 1 M25A2	
G930*	GRENADE HAND SMOKE HC	
G940*	GRENADE HAND SMOKE GREEN	
G945*	GRENADE HAND SMOKE YELLOW	
G950*	GRENADE HAND SMOKE RED (EMERGENCY ONLY)	
G963*	GRENADE HAND CS	
GGO4*	GRENADE RUBBER BALL	<b>Less Lethal</b>
K867*	SMOKE POT FLOATING HC M4A2	
L225*	SIGNAL AIRCRAFT RED (EMERGENCY ONLY)	
L226*	SIGNAL AIRCRAFT YELLOW	
L275*	SIGNAL ILLUMINATION/SMOKE MARINE	
L306*	SIGNAL RED STAR CLUSTER (EMERGENCY ONLY)	
L307*	SIGNAL WHITE STAR CLUSTER	
L312*	SIGNAL WHITE STAR PARACHUTE	
L314*	SIGNAL GREEN STAR CLUSTER	
L324*	SIGNAL GREEN STAR PARACHUTE	
L495*	TRIP FLARE	
L596*	SIMULATOR ARTILLERY FLASH	
L598*	SIMULATOR BOOBY TRAP FLASH	
L599*	SIMULATOR BOOBY TRAP ILLUMINATION	
LX21*	SIMULATOR (SMAW) NOISE CARTRIDGE	
Demo	FOR BREACHING	
<b>*Will not be used inside MOUT buildings or sewer system trainer</b>		

**Special Instructions Continued on Next page**

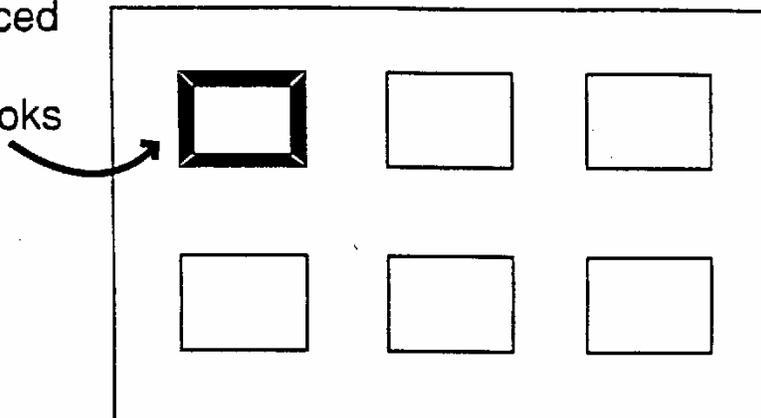
Pitch Roofed Buildings



Flat Roofed Buildings



Steel Reinforced Windows for Grappling Hooks





85

62

131 MOUT FACILITY

MAC

MAC 6

Area II

Area III

Area I

1

10

2

16

9A

9B

8A

19

8B

20

3

4B

18

7A

4A

11

6A

5A

12

13C

7B

5B

13A

14A

13D

14C

13B

14B

15

17