

RANGE AND TRAINING REGULATIONS

Range: Bravo 2 Combat Town	Lateral Limits: Na	Min/max Engagement Distance: Min Na Max Na	Range Facilities: Cinder Block Buildings; port-a-johns;
Location: 49428 97164	Boundaries: Grids Maneuver area – As depicted		
Type: MOUT Facility			
Troop Penetration Line: Not beyond boundaries of the facility	Impact Area: Na	Range Phone Number(s): None	Assigned to: CO, MCB <div style="background-color: yellow; padding: 2px;">Date Revised: 31 May 2007</div>
		Allowable Wpns: SESAMS; 12ga (Breaching Round Only); all blanks; Pyro; CS & HC Smoke; Arty Sims	

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
 - Use of .50 Caliber and above weapons on PITS targets is not authorized.
 - Use of .50 Caliber and below (Ball or 4+1 Only) on RETS ranges is authorized.
 - Use of .50 Caliber RAFUS on RETS ranges is only authorized on vehicle targets.
 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. Helmets and flak jackets shall be worn for the following live fire training events:
 - Live fire and movement/maneuver.
 - High explosives or grenades.
 - Machineguns.
 - Close Quarters Battle in shoot houses.
 17. Ensure all weapons are cleared and inspected prior to departing the firing line.
 18. All weapon malfunctions shall be corrected per the appropriate TM/FM, and unit SOP.
 19. Weapons cleaning gear is hazardous waste, and shall not be placed in the trash. The items should be collected and returned to their HazMat representative, or to their local Armory for proper disposal. Unit/Area representatives are below.
- AREA = 25, 33, 41, 43, 51, 52, 62, 63, and 64 - (725-0213)
 AREA = Mainside, 22, 23, 26 and H (Hospital) - (725-9745)
 AREA = Camp Del Mar, and 20 - (725-9742)

Special Instructions Continued on Next page

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SPECIAL INSTRUCTIONS

1. **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.**
2. All vehicles not involved in SESAMS training will be parked outside the safety perimeter.
3. **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. **Vertical Hazard of Aerial Pyrotechnics is 705' AGL.**
 - c. **Use of aerial pyrotechnics is not authorized at FDRs of High, Very High or Extreme.**
 - d. Aviation activity is particularly heavy in the vicinity of Bravo 2 combat town due to it's proximity to the HOLF. Therefore, extra vigilance must be exercised to ensure no aviation activity is inbound or in the vicinity of the town prior to deploying airborne pyro.
4. **Artillery Simulators -**
 - a. All artillery simulators will be supervised by a PSO specifically trained and assigned by the
 - b. RSO.
 - c. Use simulators for their intended purpose only.
 - d. Do not use them to simulate hand grenades.
 - e. They must not be activated in loose gravel, sticks, flammables (i.e. leaves, etc.) or any
 - f. other material subject to projection.
 - g. Observe safe separation distances from unprotected personnel at all times.
 - h. Personnel are considered protected if they are in a armored vehicles, building, dug in
 - i. emplacement (Any digging must be pre-approved by the RCO), personnel are masked by
 - j. terrain or device is detonated in designated barricaded pit.
 - k. Safe separation distances for unprotected personnel are:
 - i. M116A1 - 60 meters
 - ii. M115A2 - 35 meters
5. **CS & HC Smoke Operations**
 - a. Commanders will approve use of CS or tearing agents during training based on advice from 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
 - f. buildings).
6. **UAV Operations**
 - a. **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.**
 - b. 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.
 - c. Annual waivers for this requirement shall not be approved.
7. **During SESAMS Training:**
 - a. All participating personnel or **any unit that has been authorized co-use**, shall wear flak, kevlar,
 - b. throat/groin protector, contact gloves, utilities, hearing protection, and approved masks.
 - c. All personnel will wear the specified gear when inside the safety footprint.
 - d. The RSO shall assign a minimum of two NCOs or higher act as PSOs.
 - e. The PSOs will ensure that there are no intentional headshots and no engagements closer than 5 feet.
 - f. All SESAMS magazines will be clearly marked, as will the barrels.
 - g. The safety footprint will be established and manned by Range Guards positions or will have signs emplaced:
 - i. 49525 97335
 - ii. 49668 97220
 - iii. 49378 97018
 - h. RSO shall ensure all training is conducted IAW SOUM 1-02.

Special Instructions Continued on Next page

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8. During breaching operations – Co-Use is Not Authorized:

- a. **Mechanical Breaching**
 - i. All mechanical breaching will be conducted utilizing tools from issued breaching kits.
- b. **Ballistics Breaching**
 - i. All Ballistic Breaching will be directed on the east side of buildings only.
 - ii. Ammunition will only be issued per event.
- c. **Explosive Breaching**
 - i. The breach will consist of a field expedient urban breaches (duel primed) at no more than .25 lbs NEW (**Any Requests for annual waivers for this requirement shall not be approved**).
 - ii. Max Ord is 207 feet AGL for vertical or fragmentation hazard at .25 lbs NEW.
 - iii. A maximum K – Factor of 18 (3.5 PSI) will be utilized and all personnel are to follow the below unshielded safety standoffs.
 - iv. **If shielded, RSO may reduce standoff by 50%.**
 - v. Double hearing protection required for all PSIs at or above 1.68.
 - vi. All personnel will be set in position prior to initiating the breach.
 - vii. All exposed building material must be covered/framed IOT prevent any damage to the structure.
 - viii. A safety Brief will conducted prior to each live fire event to all participants.
 - The RSO & OIC will personally observe each live fire event.
 - Each breach will be inspected and approved by the RSO.
 - Time fuse will be cut and tested by RSO (**30 Sec. Max. Time**).
 - Any Electrical Systems will be tested by RSO.
 - There will be additional safety personnel assigned as follows:
 - **A PSO will travel with each breaching team.**
 - **Each PSO will have positive communication with the RSO.**
- d. All breaches will be set on doors supplied by the using unit that are mounted to approved framing to reduce any hazards to the building.
- e. **Range guards and signs will be posted to advise personnel of the training being conducted and to prevent any personnel not involved in the training from entering the Fragmentation Safety Arc**
- f. The RSO is responsible for all charges, and ensuring all misfire procedures are in compliance with current directives.

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

0.005	6.839903787	5.12992784	4.103942272	3.077956704	1.880973541	1.538978352	1.025985568
0.01	8.61773876	6.46330407	5.170643256	3.877982442	2.369878159	1.938991221	1.292660814
0.015	9.864848297	7.398636223	5.918908978	4.439181734	2.712833282	2.219590867	1.479727245
0.02	10.85767047	8.14325285	6.51460228	4.88595171	2.985859378	2.442975855	1.62865057
0.025	11.69607095	8.772053215	7.017642572	5.263231929	3.216419512	2.631615964	1.754410643

Special Instructions Continued on Next page

