

RANGE AND TRAINING REGULATIONS

Range: 25 Combat Town	Lateral Limits: Left: N/a Right: N/a	Min/max Engagement Distance: Min N/a Max N/a	Range Facilities: Bleachers, port-a-johns, cinder block buildings
Location: 67950 88361	Boundaries: See Graphics		
Type: MOUT Facility			
Troop Penetration Line: N/a	Impact Area: N/a	Range Phone Number(s): N/a	Allowable Wpns: SESAMS; 12ga (Breaching Round Only); all blanks; Pyro; CS/HC; M69; Smoke; Arty Sims
			Assigned to: CO, MCB Date Revised: 1 August, 2007

SPECIAL INSTRUCTIONS

- No one will be involved in blank or SESAMS force-on-force that has fired live ammunition within the previous 24 hours.**
- 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.**
- All vehicles not involved in training will be parked in the parking lot located behind the bleachers.
- Aviation activity is particularly heavy in the vicinity of 25 Area combat town due to its proximity to the air station. 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.
 - At any time an aircraft is observed entering the safety arc assigned to this facility, the RSO will **immediately call for a cease-fire** of all pyrotechnics and breaching operations.
- 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.**
 - Vertical Hazard of Aerial Pyrotechnics is 705' AGL.**
- Use of aerial pyrotechnics is not authorized at FDRs of High, Very High or Extreme.**
- Fires are authorized in designated burn barrels within the footprint of the town.
 - The RSO shall ensure that only wood is burned.
- Artillery Simulators**
 - All **artillery simulators** will be supervised by a PSO specifically trained and assigned by the RSO.
 - Use simulators for their intended purpose only.
 - Do not use them to simulate hand grenades.
 - They must not be activated in loose gravel, sticks, flammables (i.e. leaves, etc.) or any other material subject to projection.
 - Observe safe separation distances from unprotected personnel at all times.
 - 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.
 - Safe separation distances for unprotected personnel are:
 - M116A1 - 60 meters
 - M115A2 - 35 meters

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8. CS & HC Smoke Operations

- RSO shall notify LONGRIFLE prior to utilizing any CS or HC smoke.
- Commanders will approve use of CS or tearing agents during training based on advice from NBC personnel – NCO & Above - (MOS 5702/5711 or equivalent).
- 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.
- Additionally, personnel shall not drive any vehicle (government or personal) for two (2) hours after exposure, or until they take a thorough shower.
- Under no circumstances will CS capsules or CS powder be introduced into grenade materials.
- CS or tearing agent grenades shall not be used in confined spaces (e.g., chambers, tents, and buildings).

9. UAV Operations

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

10. During SESAMS Training:

- All participating personnel or **any unit that has been authorized co-use**, shall wear flak, kevlar, throat/groin protector, contact gloves, utilities, hearing protection, and approved masks.
- All personnel will wear the specified gear when inside the safety footprint.
- The RSO shall assign a minimum of two NCOs or higher act as PSOs.
- The PSOs will ensure that there are no intentional headshots and no engagements closer than 5 feet.
- **No one will be involved in the evolution that has fired live ammunition within the previous 24 hours.**
- All SESAMS magazines will be clearly marked, as will the barrels.
- The safety footprint will be established and manned by five (2) Range Guards and (3) Signs:
RG #1 68001 88597
RG #2 67950 88041
Sign #1 67720 88355
Sign #2 67721 88075
Sign #3 68130 88148
- RSO shall ensure all training is conducted IAW SOUM 1-02.

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

Mechanical Breaching

- All mechanical breaching will be conducted utilizing tools from issued breaching kits.

Ballistics Breaching

- All Ballistic Breaching will be directed on the east side of buildings only.
- Ammunition will only be issued per event.

Explosive Breaching

- The breach will consist of a field expedient urban breaches (duel primed) at no more than .24 lbs NEW (**Any Requests for annual waivers for this requirement shall not be approved.**)
- Max Ord is 204 feet AGL for vertical or fragmentation hazard at .24 lbs NEW.
- A maximum K – Factor of 18 (3.5 PSI) will be utilized and all personnel are to follow the below unshielded safety standoffs.
- **If shielded, RSO may reduce standoff by 50%.**
- Double hearing protection required for all PSIs at or above 1.68.
- All personnel will be set in position prior to initiating the breach.
- All exposed building material must be covered/framed IOT prevent any damage to the structure.
- A safety Brief will be conducted prior to each live fire event to all participants.
 - The RSO & OIC will personally observe each live fire event.

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- 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.
- 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.
- 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
- The RSO is responsible for all charges, and ensuring all misfire procedures are in compliance with current directives.

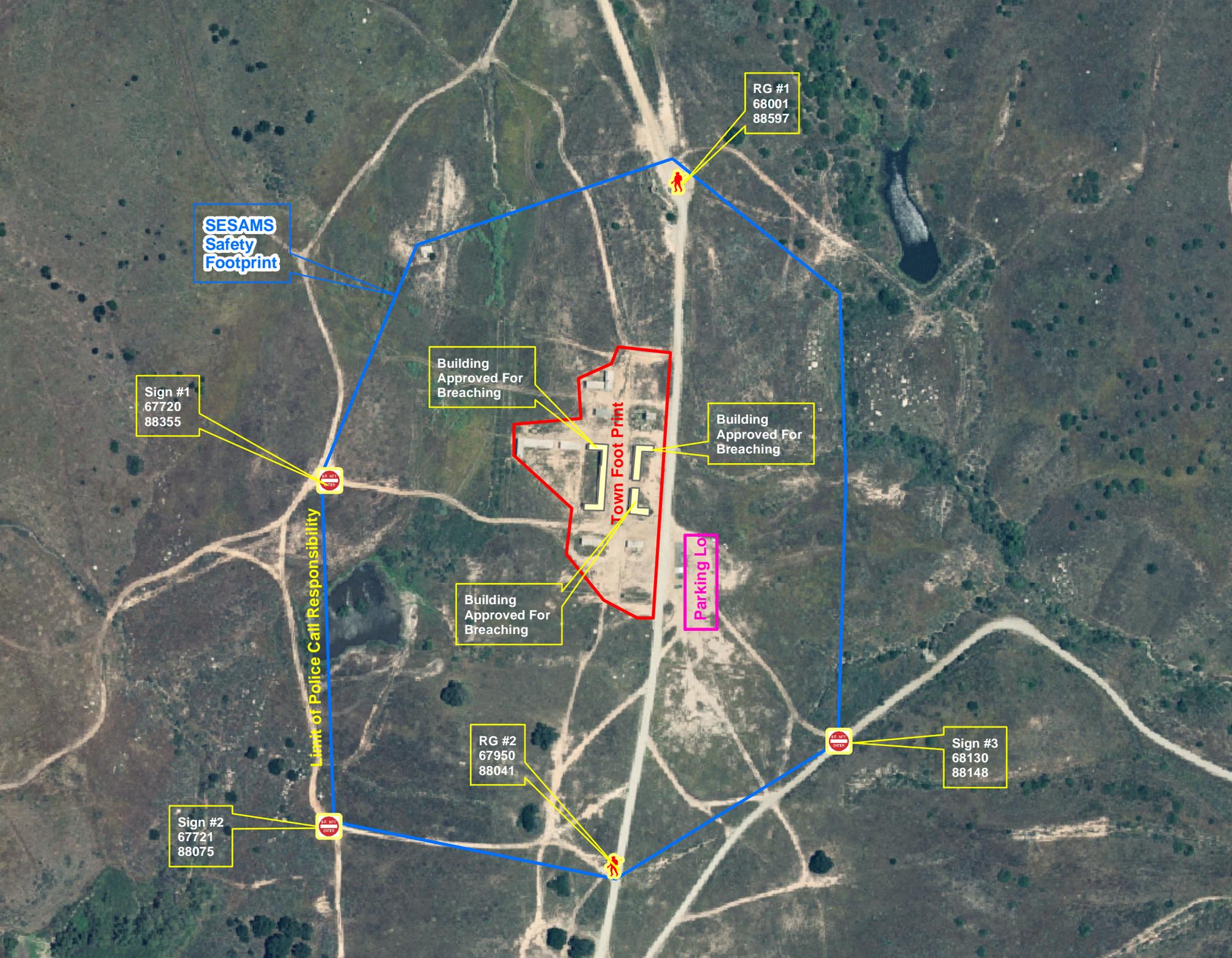
12. Signed ORM must be on hand IOT conduct training.

13. Ensure all weapons are cleared and inspected prior to departing the firing line.

14. All weapon malfunctions shall be corrected per the appropriate TM/FM, and unit SOP.

		K FACTOR						
NEW OF CHARGE (TNT EQUIVALENT)		40	30	24	18	11	9	6
		1.2 -9 PSI	1.7 PSI	2.3 PSI	3.5 PSI	8 PSI	12 PSI	27 PSI
Unprotected Distance in Feet From Detonation								
0.005	6.839903787	5.12992784	4.103942272	3.077956704	1.880973541	1.538978352	1.025985568	
0.02	10.85767047	8.14325285	6.51460228	4.88595171	2.985859378	2.442975855	1.62865057	
0.03	12.42893002	9.321697518	7.457358014	5.593018511	3.417955757	2.796509255	1.864339504	
0.04	13.67980757	10.25985568	8.207884544	6.155913408	3.761947083	3.077956704	2.051971136	
0.05	14.73612599	11.0520945	8.841675597	6.631256698	4.052434649	3.315628349	2.210418899	
0.06	15.65947056	11.74460292	9.395682339	7.046761754	4.306354405	3.523380877	2.348920585	
0.07	16.4851412	12.3638559	9.89108472	7.41831354	4.53341383	3.70915677	2.47277118	
0.08	17.23547752	12.92660814	10.34128651	7.755964884	4.739756318	3.877982442	2.585321628	
0.09	17.92561899	13.44421424	10.75537139	8.066528544	4.929545221	4.033264272	2.688842848	
0.1	18.56635533	13.9247665	11.1398132	8.354859901	5.105747717	4.17742995	2.7849533	
0.12	19.72969659	14.79727245	11.83781796	8.878363468	5.425666564	4.439181734	2.959454489	
0.13	20.26318808	15.19739106	12.15791285	9.118434634	5.572376721	4.559217317	3.039478211	
0.14	20.76997641	15.57748231	12.46198584	9.346489383	5.711743512	4.673244692	3.115496461	
0.15	21.25317138	15.93987854	12.75190283	9.563927123	5.844622131	4.781963561	3.187975708	
0.16	21.71534093	16.2865057	13.02920456	9.77190342	5.971718757	4.88595171	3.25730114	
0.17	22.15863303	16.61897477	13.29517982	9.971384862	6.093624082	4.985692431	3.323794954	
0.18	22.58486469	16.93864852	13.55091882	10.16318911	6.210837791	5.081594556	3.387729704	
0.19	22.99558832	17.24669124	13.79735299	10.34801474	6.323786787	5.174007371	3.449338247	
0.2	23.39214191	17.54410643	14.03528514	10.52646386	6.432839024	5.263231929	3.508821286	
0.21	23.77568781	17.83176586	14.26541269	10.69905951	6.538314148	5.349529757	3.566353172	
0.22	24.14724295	18.11043221	14.48834577	10.86625933	6.64049181	5.433129663	3.622086442	
0.23	24.5077027	18.38077703	14.70462162	11.02846622	6.739618243	5.514233108	3.676155405	
0.24	24.85786005	18.64339504	14.91471603	11.18603702	6.835911513	5.593018511	3.728679007	

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SESAMS
Safety
Footprint

Sign #1
67720
88355

Limit of Police Call Responsibility

Building
Approved For
Breaching

Town Foot Print

Building
Approved For
Breaching

Building
Approved For
Breaching

Parking Lo

RG #2
67950
88041

Sign #2
67721
88075

RG #1
68001
88597

Sign #3
68130
88148