

RANGE AND TRAINING REGULATIONS

NO Vehicles are permitted on this range

Range: R-130G	Lateral Limits: See Special Instructions	Allowable Wpns: Explosive Breaching up to 5 lbs NEW Service Shotguns (No Slugs)	Assigned to: CG, MCB Date Revised: 12 March, 2015
Location: 61573 85877	Impact Area: None		
Elevation: 513' AMSL	Troop Penetration: None		
Type: Breacher Facility	Engagement Distance: Min - N/A Max - N/A	Range Facilities: Classroom; 4 BTI doors; 4 Cutting walls; Port-a-John; 8 Rooms; Cyclone fence; Ammo tables	



Scheduling

1. 1st MSOB Sponsored Units Must Submit Requests through 1st MSOB.
2. EOTG Sponsored units must submit requests through EOTG.
3. Final approval & scheduling of this range must be submitted to Range Scheduling.

Scheduling/Use Conflicts	Conflict
A- IMP X RAY	LIVE FIRE 130G CLOSES GRD ACCESS TO X RAY IMPACT AREA
A- BP 130K (AERIAL SNIPER)	LIVE FIRE @ R-130G CLOSES BP 130K (AERIAL SNIPER PLATFORM)
R- 130J	LIVE FIRE @ R-130G CLOSES R-130J FFP #1 & 2; FFP #3-6 CAN OCC ONLY(NO LIVE FIRE)
FIRE BREAK	WHEN USING CHARGES ABOVE 3 POUNDS ADDITIONAL RANGE GUARDS MUST BE PLACED PRIOR TO LIVE FIRE
R-130 K	LIVE FIRE @ R-130K EA #1 CLOSES R-130G

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OIC/RSO Requirements

1. **A safety Brief shall be conducted prior to each live fire event to all participants.**
2. **All personnel shall wear required PPE during all training events.**
3. **OIC & RSO Requirements – Must be Breacher Qualified**
 - a. **Explosive Breaching, SESAMS & BFX**
 - i. **OIC Requirement – GySgt or Above**
 - ii. **RSO Requirement - SSgt or Above**
 - b. **Shotgun & Mechanical Breaching, Live Fire & Blanks**
 - i. **OIC Requirement – SSgt or Above**
 - ii. **RSO Requirement - Sgt or Above**
 - c. **No Munitions**
 - i. **OIC Requirement – None**
 - ii. **RSO Requirement - Sgt or Above**
 - iii. **LASER (If Used) LSSO Requirement - Sgt or Above**

Breaching Operations

1. **Mechanical Breaching**
 - a. All mechanical breaching shall be conducted utilizing tools from issued breaching kits.
2. **Thermal/Saws**
 - a. FDR Dependent.
3. **Ballistics Breaching**
 - a. Ammunition shall only be issued per event.
 - b. All ballistic breaching shall be directed 45° down into the room.
 - c. Only commercial breaching rounds shall be used.
 - d. **Wooden uprights and targets are to be supplied by the using unit.**
 - e. **When utilizing AA54:**
 - i. **Double hearing protection shall be used.**
 - ii. **If using actual doors, only solid wooden core doors with a minimum of 1 ¾ inches thick shall be used.**
 - iii. **Units shall provide a minimum of 2 inches of protection to the lock area.**
4. **Explosive Breaching Training operations shall be secured during electrical storms.**
 - a. **All breaches shall be set on doors supplied by the using unit.**
 - b. **During breaching operations:**
 - i. The breach shall 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 185.2 feet for vertical or fragmentation hazard.
 - iii. A maximum K – Factor of 18 (3.5 PSI) shall be utilized.
 - iv. Double hearing protection required for all PSIs at or above 1.68.
 - v. All personnel shall be set in position prior to initiating the breach.
 - vi. A safety Brief shall be conducted prior to each live fire event to all participants.
 - vii. Each breach shall be inspected and approved by the RSO.
 - viii. The RSO & OIC shall personally observe each live fire event.
 - ix. Time fuse shall be cut and tested by the RSO. (**30 Sec. Min. Time**)
 - x. Any Electrical System shall be tested by RSO.
 - xi. All unconsumed explosives shall be policed-up and consolidated for one last clean-up shot which shall be conducted on 130H grid (**62134 85865**) prior to the range going cold (Not to exceed 5 lbs. NEW).
 - xii. All unused blasting materials shall be retrieved upon completion of training, and shall be returned to the Las Pulgas ASP.
 - xiii. **Shielding required for all breaches** (i.e. Blast Shield, Bomb Blanket, placing breaching team around corner, etc.)
 - xiv. **CPU required when using any lead lined charges.**
5. **There shall be additional safety personnel assigned as follows:**
 - a. **A PSO shall travel with each breaching team.**
 - b. **Each PSO shall have positive communication with the RSO.**
6. **Live Fire signs shall be posted at all times when the Shoot House is hot as depicted in the graphics.**
7. **The OIC is responsible for all charges, and ensuring all misfire procedures is in compliance with current directives.**

Flaks and Helmets Required in Addition to the Below PPE

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	Double Hearing Protection and Eye Protection	Single Hearing Protection and Eye Protection	Eye Protection	Shielding Against Hazard
NEW OF CHARGE (TNT EQUIVALENT)	Safe Distance in Feet for Over Pressure (3.5 PSI)	Safe Distance in Feet for Over Pressure (1.2 PSI)	Safe Distance in Feet for Over Pressure (0 PSI)	Missile hazard in feet
In Pounds	K-Factor = 18	K-Factor = 40	K-Factor = 300	

0.18	10.2	22.6	169.4	185.2
0.23	11.0	24.5	183.8	201.0
0.25	11.3	25.2	189.0	206.6
0.5	14.3	31.7	238.1	260.3
0.78	16.6	36.8	276.2	301.9
0.150	9.6	21.3	159.4	174.3
0.175	10.1	22.4	167.8	183.5
0.200	10.5	23.4	175.4	191.8
0.225	10.9	24.3	182.5	199.5
0.250	11.3	25.2	189.0	206.6
0.275	11.7	26.0	195.1	213.3
0.300	12.0	26.8	200.8	219.6
0.325	12.4	27.5	206.3	225.5
0.350	12.7	28.2	211.4	231.2
0.375	13.0	28.8	216.3	236.5
0.400	13.3	29.5	221.0	241.7
0.425	13.5	30.1	225.6	246.6
0.450	13.8	30.7	229.9	251.3
0.475	14.0	31.2	234.1	255.9
0.500	14.3	31.7	238.1	260.3
0.525	14.5	32.3	242.0	264.6
0.550	14.7	32.8	245.8	268.7
0.575	15.0	33.3	249.5	272.7
0.600	15.2	33.7	253.0	276.6
0.625	15.4	34.2	256.5	280.4
0.650	15.6	34.6	259.9	284.1
0.675	15.8	35.1	263.2	287.7
0.700	16.0	35.5	266.4	291.2
0.725	16.2	35.9	269.5	294.7
0.750	16.4	36.3	272.6	298.0
0.775	16.5	36.7	275.6	301.3
0.800	16.7	37.1	278.5	304.5
0.825	16.9	37.5	281.4	307.6
0.850	17.1	37.9	284.2	310.7
0.875	17.2	38.3	286.9	313.7
0.900	17.4	38.6	289.6	316.7
0.925	17.5	39.0	292.3	319.6
0.950	17.7	39.3	294.9	322.4
0.975	17.8	39.7	297.5	325.2
1.000	18.0	40.0	300.0	328.0
1.250	19.4	43.1	323.2	353.3

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1.500	20.6	45.8	343.4	375.5
1.750	21.7	48.2	361.5	395.3
2.000	22.7	50.4	378.0	413.3
2.250	23.6	52.4	393.1	429.8
2.500	24.4	54.3	407.2	445.2
2.750	25.2	56.0	420.3	459.5
3.000	26.0	57.7	432.7	473.1
3.250	26.7	59.2	444.4	485.8
3.500	27.3	60.7	455.5	498.0
3.750	28.0	62.1	466.1	509.6
4.000	28.6	63.5	476.2	520.7
4.250	29.2	64.8	485.9	531.3
4.500	29.7	66.0	495.3	541.5
4.750	30.3	67.2	504.3	551.4
5.000	30.8	68.4	513.0	560.9

Special Instructions

1. Service Shotguns breaching firing line (Backside of Breacher House) as depicted on range map.
Start Firing Line:
 61532 85875 to 61534 85881
Lateral Limit
 LLL: 276° mag
 RLL: 276° mag
2. No traffic/personnel shall enter the range without permission from the RSO
 - a. When using charges **below** 3 lbs. NEW a range guard shall be posted with two-way radio communication with the RSO at:
 - i. Grid 61715 85800 and a sign stating "Demolition in Progress" posted at Grid 61688 85753.
 - b. When using charges **above** 3 lbs. NEW, additional range guards shall be posted with two-way radio communication with the RSO at:
 - i. Grid 61297 85922 (Fire break)
 - ii. Grid 61459 85715 (Fire break)

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RANGE 130G

CUTTING WALLS

WALL POSITIONS

CYCLONE FENCE

BTI DOORS

SHOTGUN

BREACHER HOUSE

CLASSROOM

RANGE GUARD LOCATIONS



RG#3

RG#1



RG#2

Sign

