

# MURPHY DEMOLITION RANGE

## SOP

### RANGE DESCRIPTION

Murphy Demolition Range is an active; Demolition Training Range located at Grid 86236531. It is accessible from route MCB 3.

Primary Use: Primary Use: Basic demolition and engineer

Alternate Uses: None.



### WEAPONS ACCOMMODATED:

- Claymore Mines
- Bangalore Torpedo
- TNT
- C-4
- Cratering Charge
- 12 Gauge Shotgun
- Antipersonnel Obstacle Breaching System (APOBS)

AMMUNITIONS AUTHORIZED:

- All demolitions (not to exceed 58 lbs)
- 12 Gauge Lockbuster

ALLOWABLE DEMOLITIONS:

- Cratering Charge (one per shot)
- Shape Charge (one per shot)
- All surface laid/cutting charges; two lbs max per shot
- Bangalore Torpedo- two sections maximum per shot.
- Claymore mine
- Antipersonnel Obstacle Breaching System (APOBS)\*\*51 lbs

\*All demolitions: Non-Frag not to exceed 58# NEW (one per shot)  
Frag not to exceed 15# NEW

Targets: Plastic E-Silhouette (Claymore)

PRIMARY DIRECTION OF FIRE. -333 degrees mag (Claymores)  
-22 degrees mag (APOBS)

SPECIAL INSTRUCTIONS/COMMENTS:

1. Only demolitions listed in this document will be used on this range.
2. Net Explosive Weight (NEW) limitations for Murphy Demolition Range are:

**Fragmentation-producing charges:** 15 lbs maximum

**Non Fragmentation-Producing charges:**

-58 lbs maximum (one per shot)

3. Two lbs maximum on all surface laid cutting charges.
4. Whenever a charge greater than 10 lbs non-frag producing and any frag producing charge are utilized, (including Bangalore torpedos) Range Control must be notified and MCB-3 must be blocked off at the intersection on MCB-3 and MCB-4 (LZ Cockatoo entrance) and at the intersection of MCB-3 and MCB-2 (TBS LZ7). TBS/using unit is responsible for clearing and blocking road before each detonation. Includes foot traffic/PT individuals. Must have clear communication with the range.
5. OIC and RSO must be present while live fire is in progress.
6. Ensure range flags are posted, all PPE is worn, safety brief is given and Range Control before going into a hot status.



7. When non-fragmentation charges are being detonated, all loose debris in the charges immediate vicinity will be removed to reduce flying debris hazards.

8. HERO sensitive munitions are commonly used on this range. It is the OIC/RSO responsibility to understand all capabilities and limitations of their munitions. **See MEDEVAC note below.**

9. Range 3A cannot be occupied when detonating frag-producing charges or Bangalore Torpedoes on Murphy Demo Range. (Excludes Claymores).

10. No one may enter or exit Range 3A or 3B while MCB-3 is closed.

11. Land navigation in TA 8A is not authorized while Murphy Demo Range is hot.

12. DZ Cockatoo cannot be occupied if charges of more than 10 lbs non-frag are being used, or if two lbs frag-producing charges are being used on Murphy Demo Range.

13. Claymore mines are restricted to use in the Claymore area unless specifically authorized by Range Control. Aiming azimuth is 333 degrees magnetic/ degrees 325 grid.

14. Shotgun breaching is allowed at the urban breaching pit facades. Lockbuster type rounds are the only rounds authorized for this training.

15. All brass, trash, targetry and materials will be removed completely at the end of training by the using unit. This includes any materials used to place targets on.

16. Personnel observing demonstrations MUST remain in the bleachers and are not permitted downrange at any time.

17. Non-pyrotechnic simulators (IED, BES, etc) WILL NOT be utilized with pyrotechnics or explosives.

18. When the APOBS is fired, the firing point grid will be 18STH8594665457. Firing azimuth is 22 degrees magnetic. Troops cannot be closer than 50m to the grenades when fired, 75m when detonated. Troops will be in the prone position when deploying APOBS.

**APPLICABLE MAP SHEET.** All grid coordinates listed in this order apply to the Quantico Military Installation Map V834S Edition 4-NGA 1:25000.

**FACILITIES**

Towers: 0  
Sheds: 1  
Ammo Breakdown: 1  
Parking: No

Description of other structures: bleachers, large covered bunker, head, four small covered bunkers.

UTILITIES AVAILABLE:

Electricity: Yes  
Lights: Yes  
Water System: None

INSTALLED COMMUNICATIONS: None

<u>MEASURED DISTANCES:</u>	<u>MILES</u>	<u>MGRS</u>
MT (POL) TBS Distance:	1.0	87106390
Rations Distance:	1.2	87406374
To ASP Distance:	5.2	91256605
EMT/Fire (Fire House 3):	5.0	89606710
Nearest MEDEVAC LZ	0.0	86106520 (Murphy Demo Range)

**\*\*NOTE-Special consideration will be taken when life flight MEDEVACS are used on the range due to static electricity in the aircraft rotors.**

LASERS AUTH: None

AVAILABLE DAYS/HOURS: 362/All

AREA SUITABILITY:

<u>Unit Type</u>	<u>Unit Size</u>	<u>No. of Units</u>
Engineers	Platoon	1
EOD	Platoon	1
Spec OPS Breachers	Platoon	1

GEOGRAPHICAL DATA:

Access Routes	MCB-3
Soil Type	Dirt
Terrain Type	Level
Vegetation	Grass/Woodland





AMMUNITION SHED



BUNKERS





URBAN BREACHING AREA



URBAN BREACHING AREA



COMMUNICATION REQUIREMENTS:

1. A radio check is required immediately upon occupying any portion of the RTA, every 30 minutes in a live fire status and every 3 hours in a non-live fire status.
2. The Range Control Facility (RCF) Fire Desk Net Control call sign is "Range Control". Your call sign is "Range XX" (name of range, training area or facility unit is occupying).
3. The primary RCF Fire Desk Net Control frequencies are: ELMR talk group "RC Safety" (ground) and 323.7 AM UHF (air).
4. The secondary RCF Fire Desk Net Control is telephone, numbers: 703-784-5321 or 5322.
5. OIC/RSO will monitor the RCF primary and secondary Safety Nets at all times. Instant communication is required.
6. Any unit with organic ELMR radios will have their ELMR radios programmed with the "RC Safety" talk group and use those radios as their primary means of communication within the RTA.
7. Units without organic ELMR assets will be issued ELMR radios from RMB upon check-in.
8. Approved Non-ELMR radios are only authorized for internal communication (ground).
9. If the RCF cannot reach a unit within the RTA via primary communication, the unit will be contacted via the secondary means of communication.
10. Upon loss of primary communication the OIC/RSO will initiate a "check fire"/cease training status and will contact the RCF via secondary communication. This communication will be maintained while primary communication is being restored. Units may only resume firing/training once primary communication has been re-established and clearance is granted by the RCF.

INJURY CLASSIFICATIONS:

Injuries are classified into the following categories in order to aid in casualty evacuation from the RTA.

1. ROUTINE. Routine injuries are those injuries that are not threatening to life, limb or eyesight; and conditions or illnesses treatable by medication or procedures available at the base medical facilities.

2. PRIORITY. Priority injuries are those injuries that require immediate medical attention but are not threatening to life, limb, or eyesight if treated promptly.

3. URGENT. Urgent injuries are severe injuries that are threatening to life, limb, or eyesight and require immediate medical attention.

4. MASS CASUALTY. A mass casualty is a series of injuries with multiple priority and urgent medical patients.

MEDICAL EVACUATION (MEDEVAC) PROCEDURES:

1. Injury occurs.
2. Range immediately cease-fires.
3. Medical support evaluates/treats injured personnel.
4. Range OIC/RSO notifies the RCF of the injury, is the victim conscious/unconscious and what type of MEDEVAC transportation is requested (ground/air).
5. The OIC/RSO must maintain constant radio contact with Range Control and awaits further instructions.

  
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Range Control Officer

Date: 26 July 2018