

CALVIN A. LLOYD RANGE COMPLEX

RANGE 3 SOP

RANGE DESCRIPTION

- Range 3 is an active, multi-purpose, small arms live-fire range as a part of the Calvin A. Lloyd Range Complex (CALRC) located on the western portion of the CALRC at Grid 18STH8773767853. Figure-1.
- Range 3 is 175 yards/160 meters wide by 600 yards/548.6m deep.
- Range 3 has 50 known distance firing point with target carriages located in the pit area.
- Range 3 is accessible from MCB-4.
- Range 3 has tree lined berms separating it from Range 2 to the west and Range 4 to the east.

-**WARNING!** Range 3 has 97 safety conflicts with Range 1, Range 3, and other Training Areas. See below for details and check RFMSS for applicability.

- From the Main Firing line:** Principal direction of fire is North-Northwest at 337.06° grid.
- 600yd/548.6m firing line: 18STH8778867571 (L) / 18STH8791267623 (R).
- 15yd/13.7m firing line: 18STH8761067992 (L) / 18STH8773468045 (R) in front of the protective berm.
- Target carriages are located between 18STH8757468076 (L) / 18STH8769868129 (R).

Primary User: Weapons Training Battalion

Primary Use: Individual small arms familiarization, and qualification to 600 yards with rifles, pistols, and shotguns. Machine Guns may be fired with permission from Range Control. Contact the Installation Range Safety Officer (IRSO) for details.

Alternate Uses:

- Recreational Firing.

NOTES:

- There are no gates restricting access to this range.
- There is a tunnel in the berm between Range 3 and Range 2 forward of the 100yd line allowing protected access to the pit area with restrictions. Paragraph G.4.
- OIC/RSO will ensure all access points to include the tunnel and pit area are constantly observed paying close attention to these open areas that may allow access when live fire is in progress.
- Use of the Trackless Mobile Infantry Targets (TMITS) is not authorized on this range.
- Steel Reactive Targets (SRT) use will comply with required safe stand-off distances. See paragraph E.

Conflicts: Range 3 has 97 safety conflicts with adjacent ranges, training areas, roads, and events. **OIC/RSO must check RFMSS for applicability.** See Figure-5, Figure-6, and paragraph (G) for details.

- Range 3 restricts access to the Pit Area. Check Point-1 and Check Point-7 gates must be secured prior to firing.
- Range 2 to Range 3: Personnel on Range 3 must not be forward of targets placed up range on Range 2.
- Range 3 to Range 2: Personnel on Range 2 must not be forward of targets placed up range on Range 2.
- Range 4 to Range 3: Personnel on Range 3 must not be forward of targets placed up range on Range 4.
- Range 3 to Range 4: Personnel on Range 4 must not be forward of targets placed up range on Range 3.
- Ranges 2 and 4 restrict movement in/out of the pit area. Check-fires may be required. Paragraph G.4.
- Range 3 check fire is required to make movement into the Pit area. Paragraph G.4 has details.
- Down range movement beyond the impact berm is strictly prohibited.



CALRC RANGE 3 LOCATION

A: USE OF RANGE 3 INCLUDES THE OPEN AREA ABOVE THE 600YD/548.6M LINE FOR BIVOUAC. WTBN USES THIS AREA FOR PT, FORMATIONS, AND SPECIAL EVENTS (NO RFMSS REQUEST REQUIRED). UNITS USING RANGE 3 MUST COORDINATE WITH WTBN S-3 TO DECONFLICT USE OF THIS AREA.

B: USE OF THE SHELTERS ON RANGE 2 MUST BE COORDINATED WITH WTBN S-3 TO DECONFLICT

C: ACCESS IS FROM GARAND ROAD TO THE SOUTH VIA MCB-4.

D: PARKING IS LIMITED TO THE MAIN PARKING LOT. PARKING ON THE RANGE OR AT THE ARMORY IS NOT AUTHORIZED.

Figure-1

A: WEAPONS ACCOMMODATED: Detailed list is maintained in RFMSS to include civilian equivalents

- Service Rifles, Shotguns, and Pistols and civilian equivalents
- Hand-held grenade launchers (Illum/NLW use only)
- Light and medium machine guns (prior approval required)

B: AMMUNITION AUTHORIZED: Detailed list is maintained in RFMSS to include civilian equivalents

- 5.56mm, 7.62mm, 6.8mm, 6.5mm, 12ga, 9mm (All)
- 50CAL (All except A606)
- .300 Winmag/Norma Mag and .338 Lapua Mag/Norma Mag
- 40mm (Illum/NLW Only)
- Wide variety of civilian specific calibers as listed in RFMSS

C. LASERS AUTHORIZED: Class 1, 2, and 3R or standard aiming devices mounted on standard service weapons.



Figure-2

D. TARGETS/SIMULATORS/DEVICES.

1. This range has 50 target carriages in the Pit area typically used for annual rifle training and qualification. If any of these carriages become damaged in any way, OIC/RSO will immediately report this to the WTBn S-3/OOD who will immediately notify the TECOM System Support Officer (SSO) at 703-784-4492. OIC/RSO must allow the support contractor access to the site when they respond to affect the immediate repair.
2. Portable Infantry Targets (PITS) and Steel Reactive Targets (SRTs) are authorized on this range.
3. Trackless Mobile Infantry Targets (TMITs) are NOT authorized on this range.
4. Training IED's, simulators, etc. are authorized for this range.
5. All training systems supported by the SSO and Training Support Center Quantico (TSCQ) must be coordinated through the Training Systems Support Desk (TSSD) in RFMSS. POC at 703-432-7029.
6. Unit supplied targets such as paper, plastic, and wood framed are authorized and all must be removed at the end of training.
7. Pallets and tires are not authorized as targets but may be used as barriers and must be removed after use.
8. OIC/RSO must ensure all targets are engaged from positions, so the gun-target lines and all rounds fired do not exceed the left and right lateral limits.
9. SRTs must be a minimum of 3/8" thick and constructed of AR-500 or greater steel and comply with SOUM 15-23 or MCO 3570.1D/DAPAM 385-63 when it is released and this SOUM rescinded.
10. Enhanced Performance Round (EPR) ammunition (M855A1/M80A1) is NOT authorized to be fired on steel protective plates for Portable Infantry Targets (PITS) or SRTs issued by the TSSD.
11. SRTs will be engaged according to the distances listed in paragraph (E) and SOUM 15-23.
12. Careful placement of SRTs will reduce injury. See Figure-4 below and SOUM 15-23 for details.
13. Contact Training Support Center (TSC) at (703)432-7026/7969 for target support or questions.
14. All targets must be removed upon completion of the training event.



Figure-3

E. MINIMUM SAFE ENGAGEMENT DISTANCES FOR SRT: See Figure-4 below and SOUM 15-23

-Pistol:	7 meters
-Shotgun (bird/buck):	10 meters
-Shotgun (slug):	45 meters
-5.56mm (soft-core):	23 meters
-5.56mm (steel penetrator):	69 meters
-5.45mm:	69 meters
-7.62mm Ball/linked:	150 meters
-7.62mm Special Ball:	150 meters
-7.62x39mm/7.62x54mm:	150 meters
-.300 Win Mag/Norma Mag:	375 meters (Not Authorized on Range 1)
-.338 Lapua Mag/Norma Mag:	375 meters (Not Authorized on Range 1)
-.50 cal:	375 meters (Not Authorized on Range 1)
-6.5mm Creedmoor	375 meters (RTAM edict) (Not Authorized on Range 1)
-6.8mm	NOT AUTHORIZED ON SRT (SOUM 8-24)

F. TRACKLESS MOBILE INFANTRY TARGETS (TMITs):

-TMITs are NOT approved for this range.

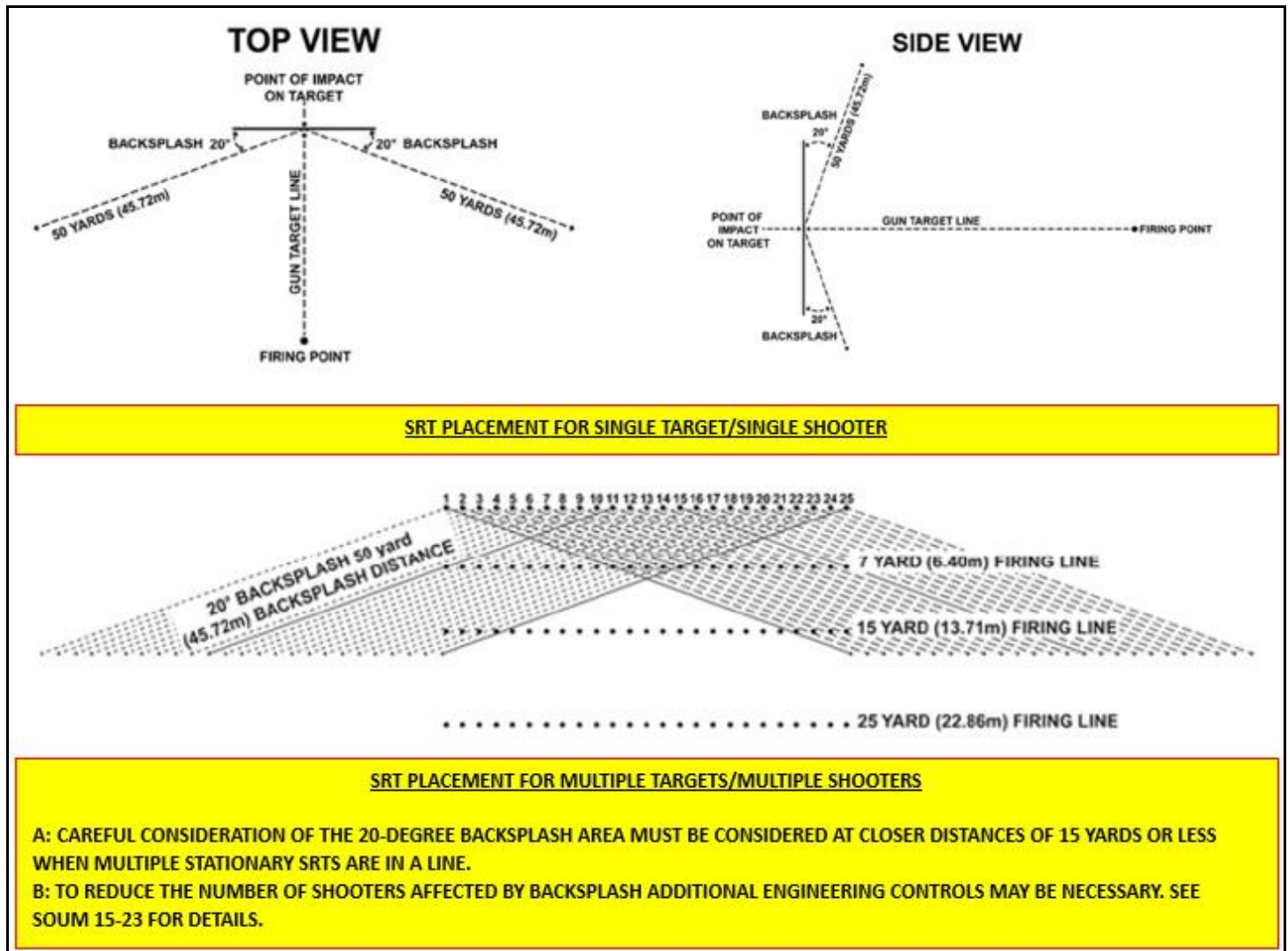


Figure-4

G. RANGE USE SPECIAL INSTRUCTIONS:

1. All range regulations and this SOP will be strictly adhered to.
2. Using unit will check-in with WTBn S-3 and receive range brief and radios prior to occupying the range.
3. There are no gates on either side of this or at the entrance to the tunnel. OIC/RSO must pay close attention to these and other open areas to prevent accidental encroachment.
4. Rotating personnel to/from the firing line and Pit area via Check Point 1 or Check Point 7 requires Ranges 1, 2, 3, 4, and both Competition and Requalification Pistol ranges to be in a check fire prior to the movement. If the tunnel is used to rotate personnel to/from the firing line and Pit area, check fire for Range 3 is required. Check fire for Range 2 and Range 4 is highly recommended. If not operationally feasible to place adjacent ranges in a check fire, the following is required:
 - a. All personnel will be briefed how to make movement.
 - b. Personnel must enter and immediately turn into the tunnel and not exit out the Range 2 side of the entrance.
 - c. Personnel must turn right immediately upon exiting into the Pit area.
 - d. Personnel must hug the wall to the red line in Range 3 pit area.
 - e. Range personnel, not shooters will observe this movement and signal to the OIC when this area is cleared.
 - f. Use of a barrier at the entrance is also recommended.
 - g. Reverse the process for exiting the Pit area to the firing line.
 - h. The tunnel is not to be used for storage.
 - i. Personnel are not authorized on the protective berm and pit changes over the berm are prohibited.
4. Red range flags must be placed on poles at the 4 corners of the range including the large poles in the Pit area. Red flashing light will be used for night firing. Additional flags at each firing line are recommended.
5. This range has internal and external conflicts (Figure-5 and Figure-6): Always confirm in RFMSS what conflicts are active for your training event. Consistent communication between OIC/RSO of each range is required.

-Internal Conflicts:

- All live fire from Range 3 restricts access to the pit area (Browning Rd) via Check Point 1 and Check Point 7 gates, and the access tunnel between Range 2 and Range 3.
- All firing on Range 3 restricts personnel in the Pit area to the ballistic resistant Pit NCO Shed, the catwalk, and must not cross the redline.

-External Conflicts:

- Target placement and all firing from Range 3 creates significant safety conflicts to Range 2 and Range 4. (Figure-5 and Figure-6). Close and deliberate coordination during scheduling and between OIC/RSO of each range is critical to ensure proper safety of personnel on these ranges.
 - All live fire from Range 3 restricts access to the pit area (Figure-5). Close coordination is required for entry to the pit area and to make pit changes using Check Point 1 and Check Point 7 gates, and the access tunnel between Range 2 and Range 3. Paragraph G.4
 - Range 2 and Range 4 conflict with Range 3. Movement forward of the 200-yard line of Range 3 must be coordinated in scheduling and with WTBn S-3/OOD and OIC/RSO of adjacent ranges during the training (Figure-5 and Figure-6).
6. The only weapons and ammunition approved for use on this range are listed in this SOP and in RFMSS. There must be no deviation from or modification to the approved weapons and ammunition.
 7. The Officer-in-Charge (OIC) must be a Staff Sergeant (E6), equivalent, or above and will be certified in accordance with MCBQ Range Regulations. The Range Safety Officer (RSO) must be a Sergeant (ER5), equivalent, or above and will be qualified in accordance with MCBQ Range Regulations.

8. OIC and RSO presence:

a. For WTBN: The OIC **and** RSO will be physically present on the range at all times during live fire training and events. For multiple ranges/events in one unit/section, only one OIC is required, but must be physically located on one of the active ranges (SAT Range excluded).

b. For non-WTBN Units: The OIC **and** RSO will be physically present on each range at all times during live fire training and events. For multiple ranges/events with non-WTBN units, an OIC and RSO is required for each range, and must be physically located on each of those ranges.

9. Fire and Movement or Fire and Maneuver are not authorized.

10. Firing on the move to support the execution of the Marine Corps Combat Marksmanship Program (MCCMP) short range engagements is authorized under the following conditions.

- Movement will be restricted to walking straight forward and engaging targets to the direct front of the shooter. (No fire team/individual rushes)

- There will be no more than two shooters per instructor/Assistant Range Safety Officer (ARSO) moving at a time.

- There will be at least one target width separation between shooters.

- Targets will be constructed from paper, plastic, wood or SRT.

- Fire on multiple targets at close distances must not exceed the left and right lateral limits (Figure-2).

- Steel targets must be engaged in accordance with paragraph E above and SOUM 15-23.

- Semi-Automatic firing only unless approved by the IRSO.

11. Adjacent ranges present hazards when firing. Personnel will not occupy any portion of the SDZs unless they are protected by artificial barriers. Any personnel located in the pits will remain on the catwalk while firing takes place (Figure-5 and Figure-6).

12. Strict inter-range and intra-range coordination and communication will be exercised to ensure personnel are not exposed to direct weapons fire or ricochet hazards.

13. Recreational firing (Rec fire) is conducted on Range 2. When this occurs, there will be no ammunition fired that has a max range (Distance X) of more than 6500 meters.

14. Units that do not occupy their range within two hours of their scheduled occupy time will lose the use of that range for that day.

15. Units that have requested contractor support (PITS targets, TMITs, battlefield effects simulators, etc.) that are not present on the specified range within 1 hour of the requested time and have not contacted RMB/TSCQ will forfeit all contracted support for the day.

16. Units that have occupied a range with approved contractor support and that have not begun to use that support within 2 hours of the requested hour of operation will forfeit all contracted support for the day.

17. Units that are training with contractor support that place themselves voluntary into check fire for 2 hours during the approved support operational hours will forfeit all support for the day.

18. Units that encounter situations where contractor support is delayed or interrupted by circumstances beyond the control of the requesting unit (RMB directed check fire, ASP support, MEDEVAC, etc.) must contact RMB/TSCQ to arrange continued support within the scope of the contract and available assets.

19. If battle effect simulators are to be used on this range, the OIC and RSO will be trained on the systems in addition to the operator.

H. APPLICABLE MAP SHEET. All grid coordinates listed in this order apply to the Quantico Military Installation Map V834S Edition 5-NGA 1:25,000



RANGE 2 AND RANGE 4 TO RANGE 3 CONFLICTS

A: THESE ARE THE WORST-CASE CERTIFICATION SURFACE DANGER ZONES (SDZs).

B: PERSONNEL IN THE PITS OF RANGE 3 MUST REMAIN ON THE CATWALK/BEHIND THE RED LINE WHILE FIRING IS IN PROGRESS ON RANGE 2 OR RANGE 4. PIT CHANGES CONDUCTED ACCORDING TO STEPS IN PARAGRAPH G.4.

C: COMMON DECONFLICTION WITH RANGE 2 IS TO NOT PLACE TARGETS FURTHER UP RANGE THAN 100YD/91.4 LINE OF RANGE 2. PLACING TARGETS UP RANGE OF THAT POINT OF RANGE 2 REQUIRES SIGNIFICANT ADDITIONAL COORDINATION WITH IR50.

D: COMMON DECONFLICTION WITH RANGE 4 IS TO NOT PLACE TARGETS FURTHER UP RANGE THAN 300YD/274.3 LINE OF RANGE 4. PLACING TARGETS UP RANGE OF THAT POINT OF RANGE 4 REQUIRES SIGNIFICANT ADDITIONAL COORDINATION WITH IR50.

Figure-5



RANGE 3 TO RANGE 2 AND RANGE 4 CONFLICTS

A: THIS IS THE WORST-CASE CERTIFICATION SURFACE DANGER ZONE (SDZ).

B: ENTRANCE TO THE PIT AREA BY CHECK POINT 1 (SOUTHWEST OF RANGE 1 AND PWS) MUST BE COORDINATED WITH OIC/RSO AND WTBN S-3.

C: ENTRANCE TO THE PIT AREA BY CHECK POINT 1 (SOUTHEAST OF RANGE 4) MUST BE COORDINATED WITH OIC/RSO AND WTBN S-3.

D: PERSONNEL IN THE PITS OF RANGE 2 AND RANGE 4 MUST REMAIN ON THE CATWALK/BEHIND THE RED LINE WHILE FIRING IS IN PROGRESS ON RANGE 3.

Figure-6

I. FACILITIES

Towers: 0

Sheds: 0

Ammo Breakdown: 0

Parking: Limited to main parking lot

Description of Other Structures: Porta-Johns (6) up range, (3) in the Pit area.

NOTE: Ammunition, dunnage, and trash will not be thrown in any porta-john. Any of these items recovered by the service contractor will result in immediate suspension of the OIC/RSO.

J. UTILITIES AVAILABLE

Electricity: Limited

Lights: Limited

Water: None

K. INSTALLED COMMUNICATIONS. PA system at each firing line and in the Pit area. Any issues with the PA system must be addressed to the WTBn S-3/OOD who will immediately notify the TECOM System Support Officer (SSO) at 703-784-4492. **Do not attempt to make repairs as this will void the warranty!** OIC/RSO must allow the support contractor access to the site when they respond to affect the immediate repair.

L. MEASURED DISTANCES

LOCATION	DISTANCE (miles)	GRID
Range Control	4.6	18STH87406360
TBS	4.0	18STH87106390
ASP	2.9	18STH91256605
EMT/Fire (Fire House 3)	1.2	18STH89606410
Nearest MEDEVAC LZ	0.3	18STH88206740 (LZ 9)
Main Side Gate	5.3	18STH94406440
Camp Upshur	10.9	18STH80007850

Directions to MEDEVAC LZ: Exit Range 3, turn left following Garand Rd. Go 400m to Range 4. LZ-9 located between Garand Road and 700 yd line on right.

NOTES:

1: The actual location of the MEDEVAC LZ will be determined by Quantico Fire and Emergency Services at the time of the emergency. LZ listed here is for reference only.

2: Do not move the injured unless directed to do so by Quantico Fire and Emergency Services (QFES) or Range Control.

M. AVAILABLE DAYS/HOURS: 362 Days. 0500-2359. All other times require waiver.

N. AREA SUITABILITY

<u>Unit Type</u>	<u>Unit Size</u>	<u>Number of Units</u>
ALL	Platoon	1

O. GEOGRAPHICAL DATA

Access Routes: Entrance from Garand Rd from MCB-1 and Willis Rd. or Enlisted Rd.

Soil Type: Dirt/Gravel

Terrain Type: Level with undulation and open bunkers.

Vegetation: Grass

P. COMMUNICATION REQUIREMENTS:

1. A radio check is required immediately upon occupying any portion of the RTA, every 30 minutes at top/bottom of the hour in a live fire status and every 3 hours top of the hour in a non-live fire status.
2. The Range Control Facility (RCF) Fire Desk Safety Net call sign is "Range Control". Your call sign is **"RANGE THREE"**.
3. The Primary means of communication with the RCF (Fire Desk) on the Safety Net is via the ELMR Radio provided to OIC/RSO at time of check out on the talk group "RC Safety" (ground) and 134.1 VHF (air).
4. The Secondary means of communication with the RCF (Fire Desk) on the Safety Net is via the OIC/RSO Cell Phone to: 703-784-5321 or 5322. Cell phone number is verified at time of occupation.
5. OIC/RSO will monitor the RCF Primary and Secondary Safety Nets at all times. Instant communication is required. Additional radio may be required to maintain communication with the WTBN S-3/OOD.
6. Any unit with organic ELMR radios will have the "RC Safety" talk group programed in 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 when checking out the range.
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.
11. OIC/RSO will comply with all guidance and commands given by the RCF.

Q. INJURY CLASSIFICATIONS:

Injuries are classified into the following categories 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.

R. MEDICAL EVACUATION (MEDEVAC) PROCEDURES:

1. Injury occurs.
2. Range will immediately cease fire.
3. If using the medical support provided by WTBN, the S-3/OOD will be contacted to get the support dispatched to the range.
4. Medical support evaluates/treats injured personnel.
5. Range OIC/RSO notifies Range Control immediately of the injury, is the victim conscious/unconscious and what type of MEDEVAC transportation is requested (ground/air).
6. The OIC/RSO must maintain constant radio contact with Range Control and awaits further instructions.

MW Dankanich

INSTALLATION RANGE SAFETY OFFICER

DATE: 11 February 2025