

**FIRING/NONFIRING DATA**

*For use of this form see USAIC Regulation 350-19; the proponent agency is DPTMS*

<b>TO:</b> Chief, Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905	<b>Date:</b> 4 Dec 2013 <span style="background-color: yellow;">Log#12-4-13</span> <b>Range:</b> Malone 25 <b>Title:</b> Mortar Live Fire Exercise (Day & Night) <b>Problem No:</b>
<b>THRU:</b> 198th In Bde Fort Bennig, Ga. 31905	<b>FROM:</b> 198th In Bde Fort Bennig, Ga. 31905

**SECTION I, TYPE OF TRAINING**

a. Live Fire     
  b. Non-live Fire     
 CP/Controller Coordinates: GA 0093 9236

**SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS**

Coordinates	Type	Model/DODAC	Size of Charges

**SECTION III, WEAPONS/AMMUNITION REQUESTED**

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
GA 0095 9238 to GA 0095 9233	60mm Mortar	HE,WP,ILL, IR	1600mils	1960mils
GA 0095 9238 to GA 0095 9233	81mm Mortar	HE,WP,ILL, IR,TP, RP	1600mils	1960mils
GA 0095 9238 to GA 0095 9233	120mm	HE,WP,ILL, IR, FRPC	1715mils	1960mils

**SECTION IV, LIVE FIRE EXERCISES Attach the following:**

**SECTION V, NON-LIVE FIRE TRAINING**

<input checked="" type="checkbox"/> Scenario of training to be conducted: <input checked="" type="checkbox"/> Sketch of area: <input checked="" type="checkbox"/> Risk Assessment: <input checked="" type="checkbox"/> Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:	<b>Training area(s) to be occupied:</b>  <input type="checkbox"/> Scenario of training to be conducted: <input type="checkbox"/> Sketch of area(s) to be occupied: <input type="checkbox"/> Risk Assessment:
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Name/rank of requesting officer: Crouch, Brian D. Civ 	Name/rank of Major Unit S3/Commander: Clayton, Richard J., Maj, S3, 198th In Bde 
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**SECTION VI, FOR RANGE DIVISION USE**

**DATE:** 24 Jan 14

<b>TO:</b> S3, 198th In Bde Ft. Benning, Ga. 31905	<b>FROM:</b> Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905
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<b>a. Roadblocks to be closed:</b> <b>b. Road(s) to be closed/road barrier locations:</b> <b>c. Remarks:</b> <b>d. This approval expires:</b> <i>Indef</i>	M1, M2, M3, M4, M5, M6, M7, M9, M10   
Chief, Range Division Directorate of Plans, Training, Mobilization and Security	

## ARTILLERY/MORTAR SAFETY RECORD

For use of this form, see MCoE Regulation 350-19; the proponent is DPTMS, Range Division.

1. DATE OF REQUEST

(DD/MM/YYYY)

4 Dec 2013

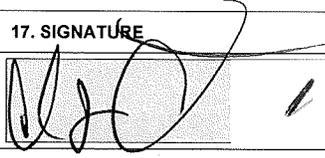
Log#12-4-13

<b>2. UNIT</b> S3, 198th In Bde Ft. Benning, Ga. 31905	<b>3. TITLE</b> Mortar Live Fire Exercise
<b>4. FIRING POINT NUMBER</b> Malone 25	<b>5. WEAPONS</b> 120MM

**6. COORDINATES**  
 GA 0095 9238 to GA0095 9233

7. WEAPON PROJECTILE	8. LEFT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	9. RIGHT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	10. MINIMUM RANGE METERS	11. MAXIMUM RANGE METERS	12. MINIMUM CHARGE	13. MAXIMUM CHARGE	14. MAXIMUM ORDNANCE <input checked="" type="checkbox"/> m <input type="checkbox"/> ft
HE M57 WP M68	1715	1960	1125	1600	1	2	1224
HE M934 & A1	1715	1960	1125	1600	1	1	1195
HE M933	1715	1960	1125	1600	1	1	1195
WP M929	1715	1960	1125	1600	1	1	1238
WP XM929	1715	1960	1125	1600	1	1	1238
ILL M91	1715	1960	1125	1600	2	2	1262
ILL XM930	1715	1960	1125	1600	1	1	1182
IR ILL XM 983	1715	1960	1125	1600	1	1	1182
FRPC M931	1715	1960	1125	1600	1	1	1271

**15. SPECIAL INSTRUCTIONS:** This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.

<b>16. NAME AND RANK OF THE REQUESTING OFFICER</b> Clayton, Richard J., Maj, S3, 198th In Bde	<b>17. SIGNATURE</b>  Click to Approve
<b>18. APPROVING OFFICIAL</b> Chief, Range Division Directorate of Plans, Training, Mobilization, and Security	<b>19. SIGNATURE</b>  Click to Approve

## ARTILLERY/MORTAR SAFETY RECORD

For use of this form, see MCoE Regulation 350-19; the proponent is DPTMS, Range Division.

1. DATE OF REQUEST

(DD/MM/YYYY)

4 Dec 2013

Log#12-4-13

<b>2. UNIT</b> S3, 198th In Bde Ft. Benning, Ga 31905	<b>3. TITLE</b> Mortar live fire exercise
<b>4. FIRING POINT NUMBER</b> Malone 25	<b>5. WEAPONS</b> 60mm

**6. COORDINATES**  
 GA0095 9238 to GA0095 9233

7. WEAPON PROJECTILE	8. LEFT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	9. RIGHT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	10. MINIMUM RANGE METERS	11. MAXIMUM RANGE METERS	12. MINIMUM CHARGE	13. MAXIMUM CHARGE	14. MAXIMUM ORDNANCE <input checked="" type="checkbox"/> m <input type="checkbox"/> ft
HE M720/720A1	1600	1960	1125	1600	1	3	1538
HE M49A4	1600	1960	1125	1600	3	4	973
WP M722	1600	1960	1125	1600	1	3	1538
WP M302A/A2	1600	1960	1125	1600	4	4	766
ILL M721	1600	1960	1125	1600	2	3	1522
IR ILL M767	1600	1960	1125	1600	2	3	1497

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<b>16. NAME AND RANK OF THE REQUESTING OFFICER</b> Clayton, Richard J., Maj, S3, 198th In Bde	<b>17. SIGNATURE</b>  Click to Approve
<b>18. APPROVING OFFICIAL</b> Chief, Range Division Directorate of Plans, Training, Mobilization, and Security	<b>19. SIGNATURE</b>  Click to Approve

## ARTILLERY/MORTAR SAFETY RECORD

For use of this form, see MCoE Regulation 350-19; the proponent is DPTMS, Range Division.

1. DATE OF REQUEST

(DD/MM/YYYY)

4 Dec 2013

Log#12-4-13

<b>2. UNIT</b> S3, 198th In Bde Ft. Benning, Ga 31905	<b>3. TITLE</b> Mortar live fire exercise
<b>4. FIRING POINT NUMBER</b> Malone 25	<b>5. WEAPONS</b> 81MM

**6. COORDINATES**  
 GA0095 9238 to GA0095 9233

7. WEAPON PROJECTILE	8. LEFT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	9. RIGHT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	10. MINIMUM RANGE METERS	11. MAXIMUM RANGE METERS	12. MINIMUM CHARGE	13. MAXIMUM CHARGE	14. MAXIMUM ORDNANCE <input checked="" type="checkbox"/> m <input type="checkbox"/> ft
HE M821	1600	1960	1125	1600	1	2	1760
HE M889	1600	1960	1125	1600	1	2	1731
HE M821A1	1600	1960	1125	1600	1	2	1752
HE M889A1	1600	1960	1125	1600	1	2	1747
HE M374A3	1600	1960	1125	1600	1	2	1394
HE M374 & A2	1600	1960	1125	1600	2	5	1544
HE M375 & A2	1600	1960	1125	1600	2	5	1544
RP M819	1600	1960	1125	1600	1	2	1472
ILL M853A1	1600	1960	1125	1600	1	2	1756
ILL M301A3	1600	1960	1125	1600	5	7	1743

**15. SPECIAL INSTRUCTIONS:** This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.

<b>16. NAME AND RANK OF THE REQUESTING OFFICER</b> Clayton, Richard J., Maj, S3, 198th In Bde	<b>17. SIGNATURE</b>  <div style="text-align: right; font-size: small;">Click to Approve</div>
<b>18. APPROVING OFFICIAL</b> Chief, Range Division Directorate of Plans, Training, Mobilization, and Security	<b>19. SIGNATURE</b>  <div style="text-align: right; font-size: small;">Click to Approve</div>

## ARTILLERY/MORTAR SAFETY RECORD

For use of this form, see MCoE Regulation 350-19; the proponent is DPTMS, Range Division.

1. DATE OF REQUEST (DDMMYYYY)

4 Dec 2013

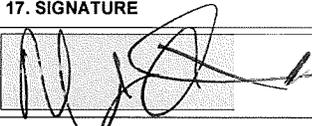
Log#12-4-13

<b>2. UNIT</b> S3, 198th In Bde Ft. Benning, Ga 31905	<b>3. TITLE</b> Mortar live fire exercise
<b>4. FIRING POINT NUMBER</b> Malone 25	<b>5. WEAPONS</b> 81MM (CONT)

**6. COORDINATES**  
 GA0095 9238 to GA0095 9233

7. WEAPON PROJECTILE	8. LEFT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	9. RIGHT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	10. MINIMUM RANGE METERS	11. MAXIMUM RANGE METERS	12. MINIMUM CHARGE	13. MAXIMUM CHARGE	14. MAXIMUM ORDNANCE <input checked="" type="checkbox"/> m <input type="checkbox"/> ft
IR ILL M816	1600	1960	1125	1600	2	2	1764
TP M879	1600	1960	1125	1600	1	2	1739

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<b>16. NAME AND RANK OF THE REQUESTING OFFICER</b> Clayton, Richard J., Maj, S3, 198th In Bde	<b>17. SIGNATURE</b>  Click to Approve
<b>18. APPROVING OFFICIAL</b> Chief, Range Division Directorate of Plans, Training, Mobilization, and Security	<b>19. SIGNATURE</b>  Click to Approve



DEPARTMENT OF THE ARMY  
198<sup>th</sup> Infantry Brigade  
FORT BENNING, GA 31905

REPLY TO  
ATTENTION OF

ATSH-TB

18 November 2013

MEMORANDUM FOR: Chief, Range Operations, DPTMS, Fort Benning, Georgia 31905

SUBJECT: Range Scenario for Malone 25, 11C AIT (OSUT)

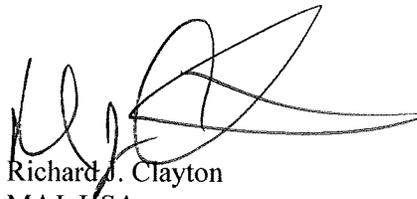
1. Mortar Training Phase (Live Fire Exercise) (Day & Night).
  - a. Cadre occupies the range to receive the training units' duty squad and initiate range preparations.
  - b. Range is opened thru range control; Range flag is hoisted.
  - c. Cadre receives ammo delivery and consolidates and organizes ammo IAW with all applicable policies and regulations.
  - d. Students arrive, consolidate and organize in staging area; accountability is conducted.
  - e. Students are placed in formation and receive the Range Orientation/Safety Briefing.
  - f. Students receive a series of learning objectives pertaining to both the 60mm, 81mm and 120mm mortar.
  - g. OIC calls Range Control and requests permission to go "wet" for live fire operations.
  - h. Cadre supervises ammo breakdown (hands-on learning objective) and final range preparations.
  - i. Students are divided into two firing orders. The first will fire only the 60mm and 81mm mortar and the second will fire 120mm, 81mm, and 60mm mortars (due to limited 120mm ammo availability). Each firing order is then further divided into two groups. One will be escorted to the observation point (OP) by Cadre to observe effects of the rounds while the other group is conducting their live fire. Students on the firing line will be assigned their firing lanes. Once assigned the Students will enter their lane in teams of two as a Gunner and Assistant Gunner. Firing point cadre will conduct rehearsals as long as necessary to ensure that every Student can safely conduct the live fire and understands all commands and instructions. Once the first group is complete with their live fire, they will be escorted to the observation point while the other group is moved to the firing line to conduct their live fire.
  - j. Day Live Fire Phase is conducted IAW current POI and as applicable FM 3-22.90, FM 3-22.91, TM 9-1015-249-10. Students perform these tasks from the firing line GA 0095 9238 to GA 0095 9233. Day LFX will be conducted from approx. 1000hrs – UTC (approx. 1300hrs) IAW current POI.

- k. Upon completion of Day Live Fire, cadre will verify the firing line is clear of all live ammo.
  - l. Students will clear firing line of all dunnage and return it to ammo point.
  - m. Cadre supervises illumination ammo breakdown (hands-on learning objective) and final range preparations for 120mm, 81mm, and 60mm Night Live Fire.
  - n. Students are divided into two chalks -one to conduct live fire and one to observe effects of illumination round from the OP. Once first chalk is complete the group will move to observation point while the second chalk moves to the firing line. Each individual firing point will have an assigned cadre who will give all instructions and commands to the student.
  - o. Night Live Fire Phase is conducted IAW current POI , FM 3-22.90, FM 3-22.91, and TM 9-1015-249-10. Students perform these tasks from the firing line GA 0095 9238 to GA 0095 9233. Night LFX will be conducted from EENT – UTC IAW current POI.
  - p. Upon completion of Night Live Fire cadre will inspect firing line for any unexpended ammo.
  - q. Students will clear firing line of all dunnage and return it to ammo point.
  - r. Instruction and demonstration of the handling and disposal of excess propellant charges from expended rounds will be executed by cadre only MCoE Reg 350-19, para 5-9 (See photo).
  - s. Any and all misfires will be handled by range cadre upon the announcement of a “misfire”; all Students will be directed to move beyond 50 meters to the rear of the firing line.
  - t. Upon completion of training -under cadre supervision- Students will be task-organized to perform maintenance on all equipment utilized and upload the weapon tally for overnight secured storage.
  - u. Students return to the bleachers for a recap of training and closing statements.
  - v. All troops, equipment and dunnage will be accounted for prior to the units release from Malone 25.
  - w. Range is closed through range control.
2. Ammunition:
- a. All ammunition will be under range cadre supervision at all times.
  - b. All ammunition will be segregated by lot number and type if more than one should be on site at the same time.
3. Medical:
- a. A Front Line Ambulance (FLA) with medic or Combat Lifesaver with a designated non-standard casualty evacuation vehicle and fully serviceable CLS kit and litter will be on-site at all times as well as seasonal appropriate aid rendering measures (e.g. ice-blankets; warming blankets, etc.)

all times as well as seasonal appropriate aid rendering measures (e.g. ice-blankets; warming blankets, etc.)

- b. For all injuries resulting in threats to life, limb or eyesight, on-sight FLA's or 911 will be called for transport of casualty and managed by the training units Duty Drill Sergeant under supervision of range OIC.
  - c. Range Control, Home and User units will be notified of any serious safety violation, incident or injury.
  - d. In the event of an accident, injury, or illness, the OIC/RSO will immediately call a cease fire then call 911 using the standard 9 line MEDEVAC to determine what type of evacuation is the most appropriate for the injury (loss of limb, or eyesight). MEDEVAC will be IAW MCoE Regulation.
4. Safety:
- a. The following will be on-site at all times;
    - 1: Range Request (Request Summary)
    - 2: 350-19-1-E-R Fire Non-Fire Data
    - 3: 350-19-2-E-R Artillery/Mortar Safety Record
    - 4: Ice sheets (if applicable)
    - 5: Wet bulb
    - 6: Hearing protection
    - 7: Eye protection
    - 8: Composite Risk Management Worksheet (training unit copy; Range copy (macro); and daily Risk Assessment)
    - 9. Range Book IAW with all standards, current policies and regulations
    - 10. All applicable FM's and TM's on hand
  - b. All personnel will receive a safety briefing from the 'Range Safety Officer' prior to training.
  - c. All personnel will be inspected for ear and eye protection.
  - d. Each mortar gun team will have at least one instructor.
  - e. All misfire/hang-fire procedures will be conducted by cadre and IAW Army Regulations and unit SOP as they pertain to each individual mortar system.
  - f. The RSO will ensure all access points to the range are secured.
  - g. At no time will anyone be allowed forward of the firing line and into the SDZ.
  - h. During Live Fire training, both the training unit Drill Sergeants and range cadre will maintain strict accountability of all Students at all times.
  - i. All Composite Risk Management Worksheet concerns will be observed. Violations of any kind will be brought to the attention of the RSO, range cadre, training unit Drill Sergeants to be addressed.
  - j. All fire extinguishers will be operational and in the correct locations.

- k. All DUD's will be reported to Range Control immediately.
  - l. In the event of a short round or a round out of the safe area, a "CHECK FIRE" status will immediately go into effect and the OIC or RSO will immediately notify Range Control.
  - m. Communications: Unit will maintain continuous contact with Range Control at all times. If, communications are lost the unit will go into a self imposed check fire until communications are restored.
  - n. Incident: When an incident occurs on the range, regardless of injury or not, the OIC/RSO will immediately call a cease fire and report it to Range Control and the higher headquarters. OIC/RSO will take action as directed by Range Control. The cease fire will remain in effect until the problem is resolved and cleared through Range Control. If, the incident results in an injury, the OIC/RSO will use the procedures outlined in the medical paragraph. The following information will be furnished by the OIC/RSO to Range Control:
    - a. Designation of unit.
    - b. Range and location.
    - c. Type of weapon involved.
    - d. Type of ammunition involved.
    - e. Brief summary of what happened.
    - f. Personnel injuries and extent.
    - g. Full name, SSN, Rank, and unit of injured personnel.
    - h. Extent of property damage.
    - i. Intentions regarding an AR 15-6 investigation.
5. POC for this memorandum is MAJ Richard J. Clayton, 198<sup>th</sup> IN BDE at 544-8021.



Richard J. Clayton  
MAJ, USA  
S3, 198<sup>th</sup> IN BDE

Malone 25

FO Position

Firing Line

CP

Un-used Charges  
Burn Pit

Wildcat Road



**MALONE 25 198th IN BDE Mortar LF (Log #12-4-13) Roadblocks 10 Dec 2013**

<b>Roadblock #</b>	<b>GRID</b>	<b>LOCATION</b>	<b>TYPE</b>
M-1	GA 009 910	Across Steam Mill Rd 10m E of its intersection with Wildcat Rd.	Gate
M-2	GA 019 938	Across Massey Rd 10 meters S. of its intersection with Buena Vista Rd.	Gate
M-3	GA 046 892	Across Stenay Rd 30m N. of its intersection with 2nd Armored Division Rd.	Gate
M-4	GA 046 935	Across Red Arrow Rd 30m S. of its intersection with Buena Vista Rd.	Gate
M-5	GA 045 933	Across unnamed trail 220m SW of its intersection with Red Arrow Rd.	Gate
M-6	GA 058 927	Across Red Arrow Rd 30m W. of its intersection with Midwest Rd.	Gate
M-7	GA 052 923	Across Steam Mill Rd 400m S. of its intersection with Red Arrow Rd.	Gate
M-8	GA 021 891	Across unnamed trail on S side of 2nd Armored Div Rd 110m E of entrance to Malone 2.	Gate
M-9	GA 032 937	Across unnamed trail on S side of Buena Vista Rd 200m E. of entrance to Young Range.	Gate
M-10	GA 059 926	Entrance to Borrow Pit on Red Arrow Rd. 50m SE of M-6 Roadblock.	Gate

### COMPOSITE RISK MANAGEMENT WORKSHEET

For use of this form, see FM 5-19; the proponent agency is TRADOC.

1. MSN/TASK Mortar Training		2a. DTG BEGIN 17 Nov 2013		2b. DTG END 17 Nov 2014		3. DATE PREPARED (YYYYMMDD) 20131117	
4. PREPARED BY		c. POSITION Assistant Operations Officer 706-544-0074					
a. LAST NAME		b. RANK Training Tech		9. RESIDUAL RISK LEVEL		10. HOW TO IMPLEMENT	
BURRESS		Training Tech		Assistant Operations Officer 706-544-0074		Assistant Operations Officer 706-544-0074	
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Mortar Training	Mortar misfire and hang fire	H	-Soldiers will be trained on misfire and hang fire procedures prior to the event. -Ensure that the trainees move a minimum of 50 meters behind the mortar.	M	- Safety Briefings - Supervision and oversight. - FM 3-22-90	- Drill Sergeant - Range Safety Officer	
	Body part not clear of muzzle	M	-Brief the trainees on the proper procedures for firing a mortar system. -Soldier will demonstrate proper hanging of round prior to livefire.	L	- Safety Briefings - Supervision and oversight. - FM 3-22-90	- Lane Safety - Range Safety Officer - Drill Sergeant	
	Soldier exposed to radioactive materials	M	-Brief Soldiers of the dangers of exposure to the tritium gas (H3) sealed in the glass tubes of the M64 sight unit, and the M58/59 aiming post lights.	L	- Safety Briefings - Supervision and oversight. - Unit SOP - FM 3-22-90	- Drill Sergeant - Range Safety Officer - Company Commander	
	Wildlife	M	- Brief Soldiers to be alert of wildlife along the route especially snakes. Brief Soldiers to avoid contact with wildlife and to not step over snakes dead or alive.	L	- Safety Briefings - Supervision and oversight.	- Drill Sergeant	
	Improper Handling of Ammunition	M	- Do not walk on, tumble, drag, throw, roll, or drop ammunition. - Do not combine WP and HE in storage. - Ensure that ammo is kept in original container.	L	- Safety Briefings - Supervision and oversight. - FM 3-22-90	- Range OIC - Ammunition NCO - Drill Sergeant	
	Ammunition Point	M	- All ammunition and charges will stored at the ammunition point. - Ammo Point will have Fire extinguisher on hand. Ammo NCO will report any discrepancy	L	- Safety Briefings - Supervision and oversight.	- Range OIC - Ammunition NCO	

Additional space for entries in Items 5 through 11 is provided on Page 2.

13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check one)

LOW     MODERATE     HIGH     EXTREMELY HIGH

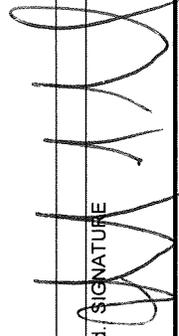
14. RISK DECISION AUTHORITY

a. LAST NAME **READ**

b. RANK  
LTC

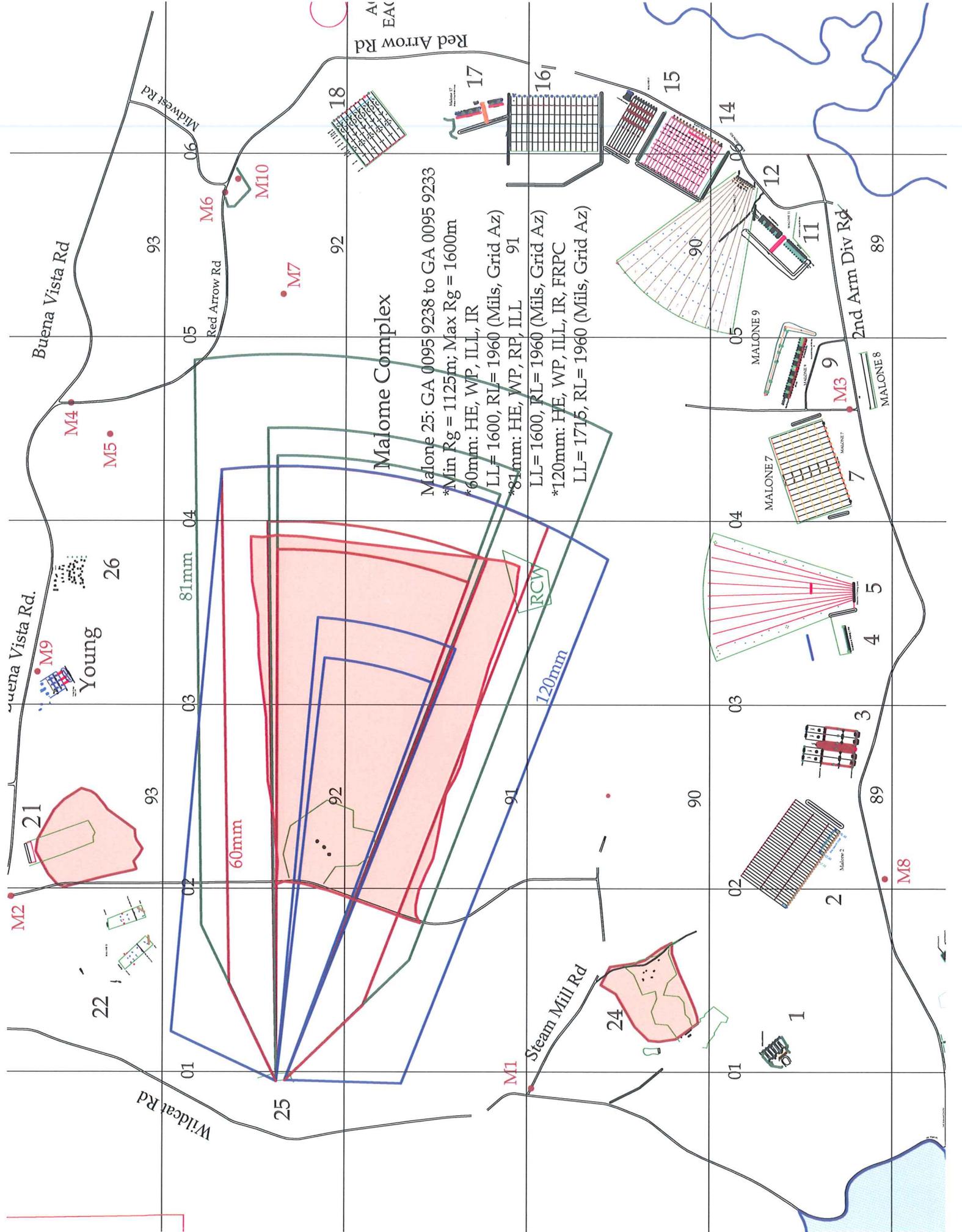
c. DUTY POSITION  
Battalion Commander

d. SIGNATURE



ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Mortar Training	Round out of Impact	L	-Range personnel will ensure the proper declination of the M2 aiming post. Inspect the bore sight for the proper deflection and elevation. -RSO will ensure safety "T" is placed on each firing mortar, base plates are settled. Ensure that cease fire is called, freeze all data on the mortars and contact range control.	L	- Safety Briefings - Supervision and oversight. - FM 3-22-90	- Range OIC - Range Safety Officer - Drill Sergeant - Soldiers	
	Round out of Impact (cont.)	L		L	- Safety Briefings - Supervision and oversight. - FM 3-22-90	- Drill Sergeant - Range Safety Officer	
	Unauthorized removal of ammunition from range	L	- Cadre will conduct a through brass and ammo check prior to leaving the range - Ammunition NCO will maintain accountability of ammunition and expenditures.	L	- Safety Briefing - Unit SOP - Command Oversight	- All Cadre - Ammunition NCO	
	Weather and Changing Conditions during Training	M	- Company Commander will adjust his daily risk management worksheet as conditions change ie weather (Storms, hot, cold), range malfunctions, cadre availability, etc.	L	- Command Oversight - Conduct Daily Risk assessment	- Company Commander	
	Eye/Hearing Loss or Injury	M	- Soldiers will wear ballistic eyewear and wear hearing protection while conducting training scenarios. Protective earmuffs for 120mm Livefire (for double hearing protection).	L	- Safety Briefings - Supervision and oversight. - FM 3-22-90	- Drill Sergeant - Range Safety Officer	



### Malome Complex

Malone 25: GA 0095 9238 to GA 0095 9233  
 \*Min Rg = 1125m; Max Rg = 1600m  
 \*60mm: HE, WP, ILL, IR  
 LL = 1600, RL = 1960 (Mils, Grid Az)  
 \*81mm: HE, WP, RP, ILL 91  
 LL = 1600, RL = 1960 (Mils, Grid Az)  
 \*120mm: HE, WP, ILL, IR, FRPC  
 LL = 1715, RL = 1960 (Mils, Grid Az)

Steam Mill Rd

Buena Vista Rd

Red Arrow Rd

2nd Arm Div Rd

Buena Vista Rd

Wildcat Rd

Young

A1  
EAC

60mm

81mm

120mm

M1

M2

M4

M5

M6

M7

25

01

22

21

26

03

04

05

93

92

18

17

16

15

14

12

05

04

03

04

90

01

89

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Malone 25

Target Area

Massey Road

FO Position

Firing Line

Un-used Charges  
Burn Pit

CP

Wildcat Road

