

**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> 1 Nov 2013 <span style="float:right">Log #10-11-13</span> <b>Range:</b> Red Cloud <b>Title:</b> MORTEP <b>Problem No:</b>
<b>THRU:</b> 3rd Heavy IN BDE, 3rd ID Fort Benning, GA. 31905	<b>FROM:</b> 3rd Squadron, 1st Cavalry regiment Fort Benning, GA. 31905

**SECTION I, TYPE OF TRAINING**

a. Live Fire     
  b. Non-live Fire     
 CP/Controller Coordinates: FA 9487 8178

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

Coordinates	Type	Model/DODAC	Size of Charges
N/A	N/A	N/A	N/A

**SECTION III, WEAPONS/AMMUNITION REQUESTED**

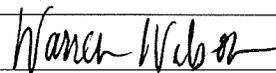
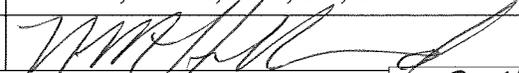
Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
East Side to West Side 9507 8180 to 9481 8171	M120/M121 120mm Mortar	HE, WP, ILL, IR ILL, FRPC	East Side 160 Deg's	East Side 176 Deg's
East Side to West Side 9507 8180 to 9481 8171	M120/M121 120mm Mortar	HE, WP, ILL, IR ILL, FRPC	West Side 140 Deg's	West Side 170 Deg's

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

Scenario of training to be conducted:  
 Sketch of area:  
 Risk Assessment:  
 Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:

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

**Training area(s) to be occupied:**  
 Scenario of training to be conducted:  
 Sketch of area(s) to be occupied:  
 Risk Assessment:

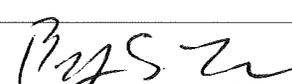
Name/rank of requesting officer: Wilson, Warren 1LT 	Name/rank of Major Unit S3/Commander: Hubbard, Nathan, MAJ, S-3, OIC 
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**SECTION VI, FOR RANGE DIVISION USE**

**DATE:** 13 Nov 13

<b>TO:</b> 3rd Heavy IN BDE, 3rd ID Fort 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> 12 Nov 15	A: 18, 38, 39. See FB Form 350-19-2 for targets and limits on firing HE ammunition.
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Chief, Range Division  
 Directorate of Plans, Training, Mobilization and Security  


## ARTILLERY/MORTAR SAFETY RECORD

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

**DATE:** 1 Nov 2013      **UNIT:** 3rd Squadron, 1st Cavalry regiment  
Fort Benning, GA. 31905      **TITLE:** MORTEP      Log #10-11-13

**FIRING POINT #:** Red Cloud Firing Line      **WEAPONS:** 120 mm Mortars

**COORDINATES:** East Side to West Side: 9507 8180 to 9481 8171

Weapon Projectile	Left Limit Mils	Right Limit Mils	Minimum Range Meters	Maximum Range Meters	Minimum Charge	Maximum Charge	Maximum Ordnance Meter
HE M57	East Side 165 West Side 155	East Side 176 West Side 170	1505	2000	1	2	1162
HE M933 HE M934 & A1	East Side 165 West Side 155	East Side 176 West Side 170	1505	2000	1	2	2072
WP M929	East Side 160 West Side 140	East Side 176 West Side 170	750	2000	1	2	2157
WP M68	East Side 160 West Side 140	East Side 176 West Side 170	750	2000	1	2	1162
FRPC M931	East Side 160 West Side 140	East Side 176 West Side 170	750	2000	1	2	2253
ILL M91	East Side 160 West Side 140	East Side 176 West Side 170	750	2000	2	4	2038
ILL M930 IR ILL M983	East Side 160 West Side 140	East Side 176 West Side 170	750	2000	1	2	2112

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

Targets = 8-22. Targets 21 & 22 Cannot be Engaged From The East 1/2 of The Firing Line. HE Can Only Engage Target #19 Located at 1525m Downrange. The Left Limit Changes 1 Deg For Every 45 Feet of Travel. The Right Limit Changes 1 Deg For Every 150 Feet of Travel. The Left and Right Limits of Fire Listed Above Are Degrees, Grid Azimuth.

Name/rank of requesting officer Wilson, Warren ILT	
Chief, Range Division Directorate of Plans, Training, Mobilization and Security	



DEPARTMENT OF THE ARMY  
Headquarters, 3<sup>rd</sup> Squadron, 1<sup>st</sup> Cavalry Regiment  
3<sup>rd</sup> Armored Brigade Combat Team, 3<sup>rd</sup> Infantry Division  
Fort Benning, Georgia 31905

REPLY TO  
ATTENTION OF

AFZP-VIB-S3

25 Oct 13

MEMORANDUM FOR RANGE DIVISION, DOT, FORT BENNING

SUBJECT: Scenario for 3-1 Cavalry Squadron MORTEP, Red Cloud Range

1. Reference: MCoE Regulation 350-19, March 2013  
ARTEP 7-90-DRILL,  
FM 23-91  
FM 7-90
2. Purpose: This training event is designed qualify mortar sections using the Mortar Training and Evaluation Program
3. Range and terrain requirements: Red Cloud Range
4. Weapons and ammunitions types: 120mm Mortars (HE, FRPC, WP, IR ILL, ILL)
5. Concept of the Operation:

**Phase I - Pre-Execution**

- a. All Mortar Sections will conduct Driver's Training (ongoing), Gunner's Examinations, Fire Direction Center Certification, and dry fire rehearsals, in preparation for the LFX.
- b. All equipment will be inspected for serviceability and safety before training is conducted.
- c. Mortar Section Sergeants from each mortar section will serve as primary instructors for all training in preparation for the LFX.
- d. Squadron FSE personnel will conduct Call for Fire training for all Scouts manning the Observation Post during the LFX.

**Phase II - Movement to Red Cloud Range and Live Fire Exercise**

- a. Movement to Red Cloud Range and LFX will be conducted by each mortar section individually. Table 1 illustrates the timeline for movement and the LFX:

TABLE 1

Section	Day 1	Day 2	Day 3	Day 4	Day 5
A	Movement to Range/RXLs	LFX	Return Movement/AAR		o/o Retrain
B		Movement to Range/RXLs	LFX	Return Movement/AAR	o/o Retrain
C			Movement to Range/RXLs	LFX	o/o Retrain Return Movment/AAR

b. Each section (2x 1064 tracks equipped with M121 Mortar System) will be given a safety and range orientation brief upon entering Red Cloud by the RSO and OIC. Ammunition will be located at concrete pads.

c. Each section will conduct movement along tank trail to range. Safety Brief will then be conducted and order given to load allocated ammunition onto tracks for Hip Shoot. Mortars will be directed to move to the firing line. Once the section moves onto firing line between right and left limits per diagram attached, the FDC will receive an immediate suppression mission and subsequently conduct a "Hip Shoot" (07-3-3045 Hasty lay and immediate suppression fire mission).

d. After completion of the Hip Shoot, the Mortar Sections will then establish firing positions at Red Cloud between right and left limits per unit SOP to standard. Sections will draw ammunition from concrete pads as needed for remainder of FIX.

- I. Reconnoiter a Firing Position (07-3-2045)
- II. Occupy a Firing Position (07-3-1351)

e. Once the firing position is established, the section will conduct register a parallel sheaf on Impact Area (07-3-3135). See FB Form 350-19-2-E-R for approved targets to engage.

f. After registration is complete, sections will execute each of the following required fire missions

- a. Fire Immediate Suppression/Smoke (07-3-3090)
- b. Fire and Adjust Fire (07-3-3054)
- c. Fire Quick Smoke (07-3-3108)
- d. Adjust Final Protective Fire (07-3-3000)
- e. Fire a Final Protective Fire (07-3-3027)
- f. Fire Time on Target (07-3-3126)
- g. Fire Priority Target (07-3-3099)
- h. Fire Illumination (07-3-3081)
- i. Fire Coordinated Illumination (07-3-3063)

g. All fires will be observed by Scout Platoon Leaders acting as Forward Observers on Red Cloud Range. OCs will oversee all calls for fire to ensure target locations are calculated within safety area.

### **Phase III - AAR/Evaluations**

a. Mortar Sections will conduct on site, internal AARs upon the completion of each respective firing iteration led by the Mortar Section Sergeant.

b. CFF O/Cs will conduct AAR for all OP personnel upon the completion of their firing iteration.

c. Mortar O/Cs, CFF O/Cs, RSO, and OIC will consolidate and document results from each mortar section's live fire performance IOT help guide follow-on training for each section.

6. Safety:

a. Leaders Certification IAW 3BDE/3ID Live Fire Certification dated September 2008.

b. Weapons:

1. All Soldiers on the range will receive a conduct of the range brief by the OIC and a safety brief by the RSO prior to firing.

2. Cease fire may be called by anyone observing an unsafe act or unsafe training conditions by using hand and arm signals, vocal command of ceasefire, or FM radio.

3. Mortar Section Sergeants and RSO will check for serviceability of all weapons/ammunition and conduct proper PCC/PCI's of all assigned equipment.

4. OCs and RSO will ensure no personnel moves forward of FPs at any time during training.

c. Vehicles:

1. Vehicles will be parked in a designated parking area behind the bleachers.

2. Mortar tracks on the firing line will maintain and keep communication via FM communication with the forward observers at all times. In the event communication is lost, the FDC will call cease fire until communication is reestablished

d. Medical:

1. MEV with medics will be on site.

2. When an incident occurs on the range, regardless of injury or not, the OIC/RSO will immediately report it to Range Control and the unit's higher headquarters. 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, SS#, Rank and unit of injured personnel
- (h) Extent of property damage

(i) Intentions regarding an AR 15-6 investigation

3. Unit will use the standard 9 line MEDEVAC in case of illness or injury. Call 911 and determine what type of evacuation is the most appropriate for the injury. MEDEVAC will be IAW MCoE Regulation 350-19 and MCoE 40-2. Landing zone for MEDEVAC aircraft will be established prior to use and will be marked appropriately. Using unit's Higher Headquarters and Range Control will be notified in this event.  
IV. Emergency cease fire hand and arm signals will be used and briefed by the RSO and OIC.

e. Ammunition:

1. The ammo NCO will sign for and control all ammunition on concrete ammo stand. Ammo NCO will ensure all rounds are marked and physically separated.
2. Each section will receive the required amount of ammo for all fire missions.
3. All unused ammo will be turned back in to the ammo point upon completion of night missions.
4. The ammo point will maintain 2 fire extinguishers.
5. Unused charges will be disposed of IAW Mortar SOP, MCoE Reg 350-19. Mortar Sections will be trained on proper procedures of disposing of unused charges.

f. Weapons/Ammunition Malfunction reports: When a malfunction is experienced, the OIC or RSO will suspend all firing and immediately notify Range Control. Retain the weapons and all components and ammunition involved in place. An investigation is required and will be conducted by DOL.

g. Range Limits:

1. RSO, Squad Leaders, and Mortar Section Sergeants will ensure firers are within the range fans and min/max ranges preset by FB 350-19-1-E-R and FB Form 350-19-2-E-R at all times.
2. In case of a short round, unobserved round, or a round out of sector or safe, there will be a cease fire, every one will move away from the guns, all data will be locked and range control will be notified.

h. Personnel:

1. Accountability of Soldiers will be kept at all times.
2. Earplugs will be worn by anyone on the firing line.
3. Marne standard will be worn in vehicles at all times when shooting on the range.

i. Responsibilities:

1. Range Officer In Charge, IAW MCoE Reg 350-19, Mar 2013.
2. Range Safety Officer, IAW MCoE Reg 350-19, 23 Mar 2013.

j. Communications: Unit will maintain continuous contact with Range Control at all times. If communications are lost the unit will go into a self induced check fire until communications are restored.

k. Ammo Point: The ammo point NCO will control the issue and retrieval of all ammunition. All ammunition (blank, live, HE, TP-T, etc...) will be marked and physically separated within the ammo point (or separate ammo points) and signed by the ammo NCO.

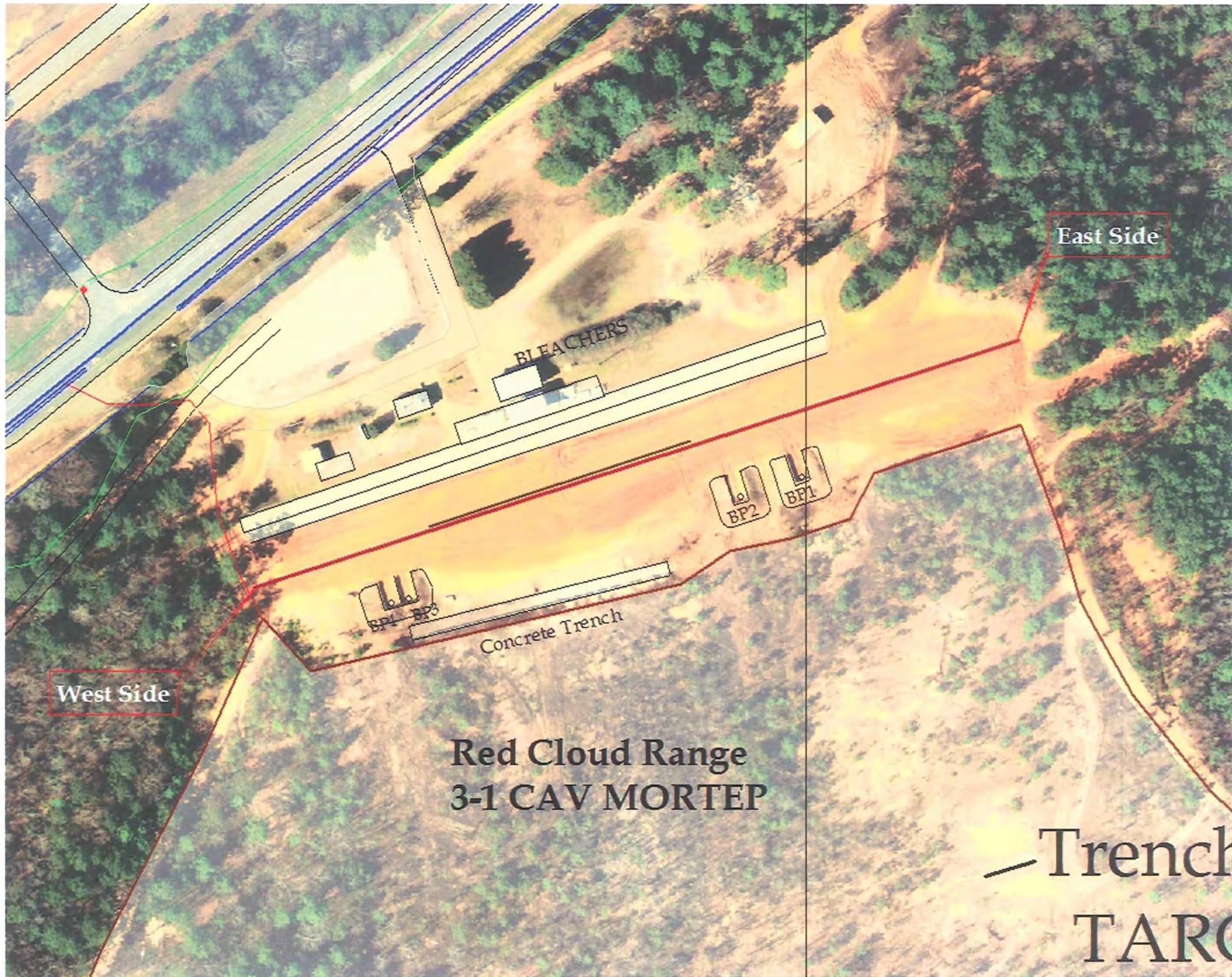
I. Signals: Primary means of signaling shift/cease fire will be FM communication. Alternate signal will be colored smoke/star cluster/VS-17. Company Leadership will be with each element to confirm receipt of signals by tactical radios. Emergency cease fire signal will be RED SMOKE/ Air-horn held by the SBF and Assault element's evaluators. All signals will be included in the initial safety briefing. Anyone observing any unsafe act can call for a Cease fire.

7. Range clean up for mortar round packaging will be supervised by the Mortar Section Sergeants.

8. The POC for this is 1LT Warren Wilson warren.f.wilson.mil@mail.mil, Squadron Fire Support Officer; 544-4168.

A handwritten signature in black ink, appearing to read 'N. Hubbard', with a long horizontal flourish extending to the right.

Nathan Hubbard  
MAJ, AR  
Squadron Operations Officer



East Side

BLEACHERS

BP2 BP1

BP1 BP3

Concrete Trench

West Side

Red Cloud Range  
3-1 CAV MORTEP

Trench  
TARCO



East Side of FL

West Side of FL

Red Cloud Range  
3rd BDE, 3-1 CAV Mortep

Targets #8-#11

Wells Hill  
Targets #12-#22

WELLS HILL  
TARGETS #12-22



# WELLS HILL TARGETS 12-22



**Red Cloud 3rd BDE, 3-1 CAV MORTEP (Log# 10-11-13) , 01 Nov 2013**

BLOCK	GRID	LOCATION	TYPE
A-1	FA 911 792	Across firebreak 200m down Fiske Range at right end of KD berm. Permanently closed.	Cable
A-2	FA 910 783	Off Sightseeing Rd on unnamed trail opposite of entrance to LRC.	Gate
A-4	FA 925 766	Off Sunshine Rd 1,200 m W. of entrance to Grandstaff range.	Gate
A-5	FA 936 762	Across entrance road to Grandstaff Range. 10m N. of Sunshine Rd.	Gate
A-6	FA 939 763	Off Sunshine Rd 100m W. of Oswichee Creek. Permanently closed.	Cable/ Berm
A-8	FA 968 740	Across unnamed trail 30m N. of Sunshine Rd and 800m N.W. of entrance to Griswold Range.	Gate
A-10	GA 018 730	Across entrance road to Flint Range. 50m N. of Sunshine Rd.	Gate
A-11	GA 019 731	Across Lumpkin Trail 30m N. of its intersection with Sunshine Rd.	Gate
A-11A	GA 032 729	Rd guard pos # 2 for Garnsey Rng Obj 'E' (intersection Jamestown/Sunshine Rd's)	Rd Grd # 2
A-12	GA 033 742	Across Garnsey Rd 50m W. of its intersection with Jamestown Rd.	Gate
A-12A	GA 029 744	Across Garnsey Rd 400m W. of A-12 Roadblock.	Gate
A-12B	GA 028 741	Across trail 150m SW of A-12A Roadblock. 50m W. of Range Bldg.	Gate
A-12C	GA 036 746	Road guard position # 3 for Garnsey Rng Objective 'E' (Jamestown at Lightning Rd)	Road Guard #3
A-13	FA 936 762	Across Sunshine Rd 10m E. of the entrance to Grandstaff Range (Road guard location).	Gate
A-14	FA 974 733	Across Sunshine Rd 10m W. of the entrance to Griswold Range. (Road guard location)	Gate
A-15	GA 021 799	Across entrance road to Buchanan Range.	Gate
A-15A	GA 021 798	Gate Across Good Luck Rd	Gate
A-15B	GA 022 796	Road guard position # 1 for Garnsey Rng Objective 'E' (Jamestown road SW corner of Engineer building)	Road Guard # 1
A-18	FA 993 828	Across Buckeye Rd 225m S. of its intersection with 1st Div Rd. and 50m E. of entrance to Duke Range	Gate
A-19	FA 973 825	Across entrance road to Patton Range 400m S. of its intersection with 1st Div Rd.	Gate
A-20	FA 974 827	Across entrance road to Dianda Range. 300m S. its intersection with 1st Div Rd.	Gate
A-22	GA 015 817	Across unnamed trail 50m N. of Brinson Range and 10m off Jamestown Rd.	Gate
A23	FA 983 756	Across Lumpkin Trail 200m E. of Griswold Range	Gate
A-23A	GA 005 748	On Lumpkin trail 50m NW of Objective 'E' on Garnsey Range.	Gate
A-23B	GA 005 747	Adjacent to A-23A gate on trail near intersection of Lumpkin trail	Install Gate
A-24	GA 015 811	10m inside entrance gate of Brinson Rng south of entrance road.	Gate
A-25	GA 016 789	Across fire break 10m W. of its intersection with Good Luck Rd.	Gate
A-26	GA 013 798	On L/S of Buchanan Range 50 meters W. of chow area across entrance to fire break.	Cable
A-27	GA 018 805	Across unnamed trl 175m N of intersection of Hourglass and Jamestown roads	Gate

BLOCK	GRID	LOCATION	TYPE
A-28	GA 012 774	20 meters off Yankee road on south side of Galloway range.	Gate
A-28A	GA 011 776	30 meters south of Range Tower	Gate
A-30	GA 026 758	Across fire break leading to Garnsey Range. 140m SW of Brann Flat Range.	Gate
A-30A	GA 027 758	Across trail leading to Garnsey Range 50m E. of A-30 Roadblock	Gate
A-31	GA 020 745	Across fire break leading to Brann	Cable
A-32	FA 989 724	Across entrance road to Kunzig Range.	Gate
A-33	FA 974 734	Across entrance to Griswold Range.	Gate
A-33A	FA 979 739	150 meters west of Target Systems bldg on trail leading to move to contact site	Gate
A-33B	FA 982 739	20m N of Target Sys bldg on trail running on west side of bldg.	Install Gate
A-34	FA 947 760	Across entrance to Minter Hill 700m E. of Oswichee Creek.	Gate
A-38	FA 952 816	Across fire break 300m down range of firing line on Red Cloud Range on L. side of range.	Cable
A-39	FA 956 822	Across unnamed trail 100m S. of bldgs on Buckner Range on L. side of range	Cable
A-40	FA 967 823	Across fire break 50m down range on the left side of Pierce Range.	Gate
A-41	FA 972 820	Across fire break located on the right side of the firing line on Patton Range.	Cable
A-42	FA 978 820	Across fire break located on the left side of the firing line on Patton Range.	Cable
A-43	FA 983 823	Across fire break located on the right side of Booker Range Firing Line	Cable
A-44	FA 986 823	Across fire break 100m E. of the 25m flat range on Booker Range	Gate
A-45	FA 990 827	Across fire break located on the right side of the firing line on Duke Range.	Gate
A-45A	FA 991 829	Across Booker Breach site entrance road 200m past Duke Rng entrance gate	Gate
A-46	FA 984 832	Across unnamed trail 100m W. of the intersection of 1st Div Rd and Ivy Rd.	Gate
A-47	FA 990 833	Across unnamed trail 500m W. of the intersection with 1st Div & Buckeye Rd's	Gate
A-48	FA 995 827	Across fire break located on the right side of the firing line on Porter Range.	Cable
A-49	FA 998 827	Across fire break located on the left side of the firing line on Porter Range.	Cable
A-50	GA 000 830	Across unnamed trail 200m W. of entrance to Maertens Range.	Gate
A-51	GA 031 791	Barrier on Furman Rd	Barrier 1
A-52	GA 034 776	Barrier on Yankee Rd	Barrier 2
A-53	GA 035 776	Gate to Cole Range	Barrier 3
A-54	GA 046 749	Barrier off Lightning Rd on unnamed trail	Barrier 5
A-55	GA 057 759	Barrier off Lightning Rd on unnamed trail	Barrier 4

### COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK 3-1 CAV, MORTEP	2a. DTG BEGIN 020600DEC2013	2b. DTG END 042200DEC2013	3. DATE PREPARED (YYYYMMDD) 20131025
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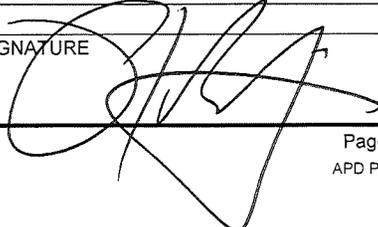
4. PREPARED BY			
a. LAST NAME COOMBS	b. RANK SFC	c. POSITION 120MM MORTAR SECTION LEADER	

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?
Vehicle Preparation	Tripping or falling off a vehicle.	M	Soldiers will maintain 3 points of contact while climbing around vehicles during operations	L	Supervise Soldiers preparing vehicles for movement and inspect load plans	OIC / NCOIC / Section Leaders	
Vehicle Preparation	Soldier injured by ramp	M	Vehicle Commanders will ensure accountability of their personnel and use proper commands during operation. Ground guides will use hand and arm signals after clearing the area	L	Supervise Soldiers preparing vehicles for movement and inspect load plans	OIC / NCOIC / Section Leaders	
Vehicle Preparation	Crew injured by unsecured objects inside the vehicle	M	Section Leaders will inspect load plans and ensure objects are secured properly	L	Supervise Soldiers preparing vehicles for movement and inspect load plans	OIC / NCOIC / Section Leaders	
Road March to Red Cloud	Vehicle collision	M	All vehicles will have ground guides in the motor pool and into their firing points. Crews will receive a convoy brief informing of the route, order of march, and vehicle spacing	L	Ensure adequate ground guides are present and conduct convoy brief prior to movement	OIC / NCOIC / Section Leaders / Vehicle Commanders	
Preparation of Mortar Rounds	Mixed LOT and DODIC	M	Once ammo is dropped Soldiers will separate round by shell/fuze, and then each type of ammo will be organized by LOT and DODIC before allocating ammo to the sections	L	Section Leaders will designate areas within the ammo pad to separate and prepare ammo	OIC / NCOIC / Section Leaders	
Preparation of Mortar Rounds	Damaged mortar rounds / bad charges on the round	M	During ammo prep soldiers will also inspect rounds for damage to the fuze, body, fins, and check the charges for water damage and cracks or breaks in the body of the charge.	L	Section Leaders will ensure mortar rounds are inspected during ammo preparation	OIC / NCOIC / Section Leaders	

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 GUNNISON	b. RANK LTC	c. DUTY POSITION SQUADRON 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?
120mm Mortar LFX	Misfire / Hang round in the tube	H	All crews will have completed a written exam and passed the gunners exam prior to firing. Dry fire exercises will be complete prior to live fire including misfire drills and rehearsals.	M	Section Leaders conduct misfire drills. Actual misfires will be conducted IAW FM 3-22.90	OIC / NCOIC / Section Leaders	
120mm Mortar LFX	Rounds impacting outside of the range fan	H	Section Leaders will ensure the range survey is up to date and all range limitations are entered properly into the MFCS. Each mortar position will have a Safety T diagram with their	M	Vehicle commanders will enter the min and max range, left and right limits, max charge, and check the safety	OIC / NCOIC / Section Leaders / 120mm Gunners	
			left and right deflection limits, minimum and maximum range and charges for each shell and fuze.		data to make sure rounds will not exceed the max ord for each shell and fuze		
120mm Mortar LFX	Exceeding rates of fire for the 120mm mortar	M	Soldiers will be tested on the rates of fire by type of ammo for the 120mm mortar . All crews must pass the written portion of the gunners exam prior to firing.	L	Soldiers will know the rates of fire fore each type of ammo and demonstrate proficiency during the dry	OIC / NCOIC / Section Leaders / Vehicle Commanders	
			Vehicle commanders will monitor the rate of fire for each mission throughout the MORTEP.		fire portion of the MORTEP		
Handling of UXO	Round fails to fire (dud round)	H	Soldiers will execute misfire procedures IAW FM 3-22.90. Then the primer will be inspected for indentation. If their is no indentation the round will be fired on another mortar.	M	If a dud round is confirmed the Section Leaders will ensure the round is transported properly to the pit	OIC / NCOIC / Section Leaders / Vehicle Commanders	
			If the misfired round does have a dent on the primer it will be taken to the dud pit and Range Control will be notified immediately.				
120mm Mortar LFX	Severe weather (storms, lightning, high winds, excessive rain)	M	Mortars will not fire in the event of heavy down poor, or if wind speeds prevent each position from completing a registration mission.	L	Crews will make sure ammo is stored properly and cannons covered while raining.	OIC / NCOIC / Section Leaders / Vehicle Commanders	
Environmental Considerations	Injuries from wildlife	L	Soldiers allergic to bee stings will be identified and monitored. Range OIC will brief environmental considerations, hazards, and markings prior to firing.	L	Section leaders conduct a recon and mark all hazards. Soldiers with allergies will be identified prior to occupation.	OIC / NCOIC / Section Leaders	
Hearing Conservation	Hearing / Loss of vision	M	All Soldiers on the range will wear ear and eye protection during the live fire exercise.	L	Section leaders will conduct PCC/PCI prior to training and make sure Soldiers have proper PPE	OIC / NCOIC / Section Leaders	

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?
Weather Considerations	Tornado / Electrical Storms / Fire / Blizzard	M	Safety Brief will address courses of action for each scenario and the proper response for each. OIC will monitor Range Control net for weather updates and notify firing line as necessary.	L	Range OIC will identify lightning protection areas prior to training.	OIC / NCOIC / Section Leaders	
Prevent Injury to Wildlife	Wildlife on Range	M	All NCO's, OIC and RSO will ensure that no one handles wildlife. Safety Brief will address procedures prior to execution of training	L	OIC will supervise firing and maintain communication in the event Forward Observers identify animals on the range.	OIC / NCOIC / Section Leaders	
Weather Injury	Cold Weather Injuries	M	Soldiers with previous cold weather injuries will be identified. Packing lists will contain adequate cold weather gear. Soldiers will be monitored for signs and symptoms during training.	L	Section Leaders identify cold weather injuries and conduct PCC/PCI for packing list.	OIC / NCOIC / Section Leaders	



# RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



**Date Submitted:** 10/29/2013

**EMD Number:** 1330203

**Project#:** Unknown

**Project Title:** IMLC Training and Direct Lay methods of engagement using the M224 60MM, M252 81MM, and M120 and M121 120MM Mortars

**Description of proposed action:**

During WM1D41 Soldiers will receive training on Direct Lay methods of engagement using the M224 60MM, M252 81MM, and M120 and M121 120MM Mortars. Soldiers will also conduct live fire exercises. Ammunition to be fired for the training event is as follows: 60MM Mortar-M49A4, M720 HE. For the 81MM Mortar-M374, M821, M889, M889A2 HE and M853 ILL. For the 120MM Mortar-M57, M933, M934, M934A1 HE.

**Project Location:**

Red Cloud

**Amount, Description, Location of Disturbance/Digging:**

None

**Number of Personnel:**

80

**Type of Ammunition:**

HE, WP, ILL for 60MM, 81MM, 120MM Mortars Live

**Number/Types of Trees:**

None

**Size of Project Area:**

**Duration of Action:** Start: 12/2/2013 Stop: 9/30/2014

**Proponent:** torri.caldwell

706.544.2940

**Organization/Unit:** 3-1 CAV

**Number/Types of Vehicles:**

Six(6) vehicles: M113 - No vehicles will be going off road.

\*\*\*\*\*  
**DECISION:** Concur with conditions

**This Action is adequately covered in the Existing EA titled: 'Ongoing Mission and siting Activities, USAIC, FT. Benning, GA.'**

**(NA): Training involving LIVE FIRE and tracked vehicles has NO CATEX -- "Ongoing Mission and Siting Activities, USAIC, Ft. Benning, GA."**

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**REC APPROVED THROUGH 30 SEPTEMBER, 2014**

**Noise**

**Conditions:**

Ellis Leeder (706 545 2400), 10/30/2013

This is training operations request for training. If there is any operational noise complaints received, the Environmental Management Division Installation Operational Noise Monitoring Program (IONMP) and or Public Affairs Office (PAO) programs will investigate and then recommending operational noise mitigation actions to the appropriate personnel for the training actions. In accordance with the Army's policy on environmental noise management, all efforts shall be made to minimize noise annoyances to the highest extent practicable with training operations without interfering with the proposed missions. Please follow the fly friendly program avoiding noise abatement areas. Please follow good smoke management practices not allowing smoke or dust to travel off Installation boundary into public areas or roads. Please increase distance between vehicles when dust conditions are extreme, see Table 5-3. CS gas use should be utilized in designated areas only, contact Range Control for a listing of approved CS gas sites. Please visit the Range Operations website to obtain a list of approved weapons per Range or Firing Points. . Leave the training areas, firing range, latrines in a clean condition; contact Range Operations if unclean conditions are found or clean up costs or cleaning endeavors by proponent could occur to last user. If any assistance or a copy of MCoE Regulation 350-19 or the IONMP noise plan is needed for review, please feel free to contact Ellis Leeder at 706.545.2400 or email ellis.p.leeder.civ@mail.mil or visit the Range Control Website for the updated version of MCoE Regulation 350-19, range guidance and other materials for your range packet. This 144r must be present at the training site when occupying compartment or ranges.

EMD Number: 1330203

JO# Unknown

Project Title: IMLC Training and Direct Lay methods of

**Hazardous Materials/Waste**

**Conditions:**

Carlos Ariasochoa (706 545 1857), 10/30/2013

Defective, misfired, or otherwise unserviceable munitions must be managed IAW/MCOE Reg. 350-19-5-10, Para 9-2 (Proper management of Misfired munitions). All excess, munitions must be returned to the Ammunition Supply Point after the field exercise is completed. Rubbish, empty containers and other waste (including used smoke/C2 canisters) should be removed from the training area. A dud shall not be removed from the range; it will be marked, called into range control and will be properly disposed of by EOD personnel IAW/MCOE Reg. 350-19, 23 Jul 2010.

Appropriate precautions must be taken to prevent hazardous material spills. Have adequate quantities of spill response supplies on hand. If a spill occurs use notification procedures as outlined in the Fort Benning Hazardous Waste Management Plan. Contain and clean up spill according to guidance provided by the Environmental Protection Management Branch. Any waste generated must undergo a waste stream analysis to determine appropriate management requirements. If any hazardous waste is generated it must be managed in accordance with Federal, State, Army and Fort Benning regulations.

**CWA - Training**

**Conditions:**

Leah Ropski (706 626 0492), 10/30/2013

Environmental Review: Caution within training areas and motor pools should be taken to protect all nearby waterways (including perennial, intermittent streams and wetlands); as well as ground surfaces and any other sensitive areas in the vicinity of the training areas. Potential spills/releases from this activity that may occur before and/or during the FTX include: 1. Discharge and/or improperly disposal of oil or hazardous substances into or upon land, water, or into ground water areas from storage, handling and/or transportation of hazardous materials/waste; 2. Vehicle/equipment/generators leaks; 3. Fuel loading/unloading/refueling operations; 4. Field mess facilities/equipment/operations, and/or 5. Ammunitions /explosives (as applicable, before and/or during the FTX).

General SPCC Requirements: Ensure all hazardous materials are properly storage to prevent spill/discharges, to meet safety requirements for storage, and that containers are not exposed to the weather. Have adequate spill response supplies available during exercise for any spills that may likely occur. Use drip pans under vehicles and provide secondary containment for any fueling activities and hazardous material/waste storage. Locate all refueling operations and storage of hazardous materials/waste away from waterways and sensitive areas. See attached section on prevention procedures and CHECKlist (Example Unit/Activity SOP for Training and Deployment) to be used during training exercise to comply with SPCC plan requirements. Ensure all wastewater from field mess equipment/operations particularly those involving oil/grease are collected and dispose properly. Do not discharge any wastewater into storm drains or dispose of oil/grease waste directly into land.

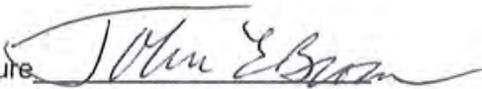
General ISCP Requirements: In the event of a spill/discharge -- notify Range Control by radio or call 544-6291, and they will notify E-911 for Fire Department/HAZMAT Team assistance and/or notification of the EMD office (Spill Beeper 706-317-6584). As appropriate, and if personnel are trained -- REACT to minimize spill damages. Submit a spill report to the EPMB Spill Program Manager (use Spill Response Report attached). All spills reaching navigable water must be reported immediately. The unit is responsible for the final cleanup of any spill during this exercise. Coordination with this office is required for clearance of the site.

**Natural Resources - RCW**

**None**

Michael Barron (706 544 7080), 10/29/2013

Signature



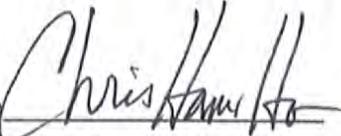
John E Brown

NEPA Program Manager

Date

31 OCT 2013

Signature

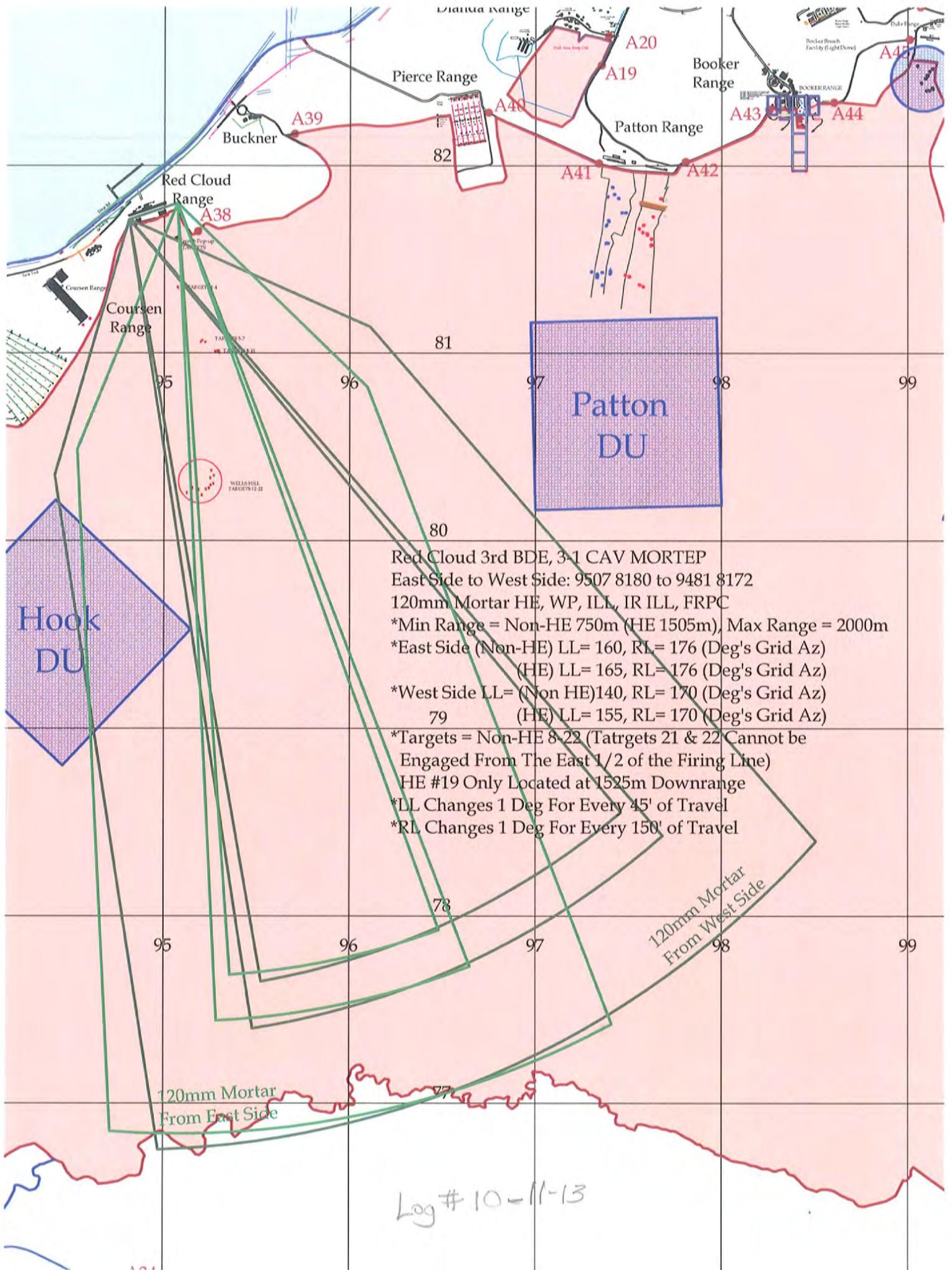


Christopher E. Hamilton, PhD

EPMB Chief

Date

31 Oct 13



Red Cloud 3rd BDE, 3-1 CAV MORTEP  
 East Side to West Side: 9507 8180 to 9481 8172  
 120mm Mortar HE, WP, ILL, IR ILL, FRPC  
 \*Min Range = Non-HE 750m (HE 1505m), Max Range = 2000m  
 \*East Side (Non-HE) LL= 160, RL= 176 (Deg's Grid Az)  
 (HE) LL= 165, RL= 176 (Deg's Grid Az)  
 \*West Side LL= (Non HE)140, RL= 170 (Deg's Grid Az)  
 79 (HE) LL= 155, RL= 170 (Deg's Grid Az)  
 \*Targets = Non-HE 8-22 (Tatrgets 21 & 22 Cannot be  
 Engaged From The East 1/2 of the Firing Line)  
 HE #19 Only Located at 1525m Downrange  
 \*LL Changes 1 Deg For Every 45' of Travel  
 \*RL Changes 1 Deg For Every 150' of Travel

Log # 10-11-13