

FIRING/NONFIRING DATA

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

TO: Chief, Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905	Date: 10 Apr 2014 LOG# 4-1-14 Range: Red Cloud Title: Fire Without FDC (IMLC) Problem No:
THRU: 198th In Bde Fort Benning, Ga 31905	FROM: 1/19 In Bn. Fort Benning, Ga 31905

SECTION I, TYPE OF TRAINING

a. Live Fire
 b. Non-live Fire
 CP/Controller Coordinates: 9486 8177

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

Coordinates	Type	Model/DODAC	Size of Charges

SECTION III, WEAPONS/AMMUNITION REQUESTED

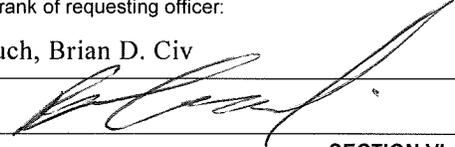
Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
GA 9490 8173	120mm Mortar	HE, FRPC	2890 mils	3060 mils
GA 9490 8173	81mm Mortar 120mm Mortar with 81mm Insert	HE	2890 mils	3060 mils
GA 9490 8173	60mm Mortar	HE	2600 mils	2860 mils

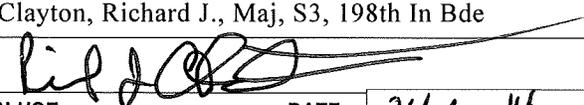
SECTION IV, LIVE FIRE EXERCISES Attach the following:

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:
Crouch, Brian D. Civ


Name/rank of Major Unit S3/Commander:
Clayton, Richard J., Maj, S3, 198th In Bde


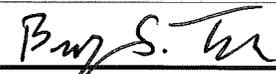
SECTION VI, FOR RANGE DIVISION USE

DATE: 24 Apr 14

TO: S-3, 198th IN. BDE
Fort Benning, GA. 31905

FROM: Range Division,
Directorate of Plans, Training,
Mobilization and Security
Fort Benning, GA 31905

a. Roadblocks to be closed:	A18, A38, A39
b. Road(s) to be closed/road barrier locations:	
c. Remarks:	SEE 350-19-2-E-R FOR APPROVED TARGETS FOR HE MORTARS
d. This approval expires: <i>Indef</i>	

Chief, Range Division
Directorate of Plans, Training, Mobilization and Security


ARTILLERY/MORTAR SAFETY RECORD

1. DATE OF REQUEST

(DD/MM/YYYY)

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

10 Apr 2014

2. UNIT	3. TITLE
Mortar Company 1st Battalion 19th Infantry Regiment Infantry Mortar Leader Course	Fire without FDC (WM1D41)
4. FIRING POINT NUMBER	5. WEAPONS
Red Cloud Range	60mm, 81mm Mortars

6. COORDINATES
9490 8173

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
60mm HE M49A4	2600	2860	625	1000	1	4	1064
60mm HE M720	2600	2860	625	1000	0	2	1119
81mm HE M374& A2	2890	3060	1200	1800	2	4	1250
81mm HE M374A3	2890	3060	1200	1800	1	2	1390
81mm HE M821	2890	3060	1200	1800	1	2	1755
81mm HE M821A1& A2	2890	3060	1200	1800	1	2	1747
81mm HE M889A1& E1	2890	3060	1200	1800	1	2	1747
81mm HE 889	2890	3060	1200	1800	1	2	1726
81mm HE 889A1	2890	3060	1200	1800	1	2	1743

15. SPECIAL INSTRUCTIONS: This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.
60mm Targets 5-11, 81mm Targets 12-22

16. NAME AND RANK OF THE REQUESTING OFFICER	17. SIGNATURE
David M. Hurst SFC, USA IMLC Master Trainer	 Click to Approve
18. APPROVING OFFICIAL	19. SIGNATURE
Chief, Range Division Directorate of Plans, Training, Mobilization, and Security	 Click to Approve

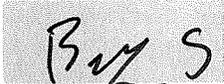
ARTILLERY/MORTAR SAFETY RECORD For use of this form, see MCoE Regulation 350-19; the proponent is DPTMS, Range Division.	1. DATE OF REQUEST (DD/MM/YYYY) 10 Apr 2014
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2. UNIT	3. TITLE
Mortar Company 1st Battalion 19th Infantry Regiment Infantry Mortar Leader Course	Fire without FDC (WM1D41)
4. FIRING POINT NUMBER	5. WEAPONS
Red Cloud Range	120mm Mortars

6. COORDINATES
9490 8173

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
120mm HE M57	2890	3060	1501	1800	1	2	1173
120mm HE M933	2890	3060	1501	1800	1	2	2076
120mm HE M934&A1	2890	3060	1501	1800	1	2	2076
120mm FRPC M931	2590	3115	600	2000	1	2	2254

15. SPECIAL INSTRUCTIONS: This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.
120mm Targets: 15 - 22

16. NAME AND RANK OF THE REQUESTING OFFICER	17. SIGNATURE
David M. Hurst SFC, USA IMLC Master Trainer	 Click to Approve
18. APPROVING OFFICIAL	19. SIGNATURE
Chief, Range Division Directorate of Plans, Training, Mobilization, and Security	 Click to Approve



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
UNITED STATES ARMY
1ST BATTALION, 19TH INFANTRY REGIMENT
BLDG 3335 2ND INFANTRY DIVISION ROAD
FORT BENNING, GEORGIA 31905

ATSH-INB-D

08 April 2014

MEMORANDUM: RED CLOUD RANGE (MORTAR)

SUBJECT: Range Scenario (WM1D41)

1. Main Body

- a. Range is opened thru Range Alpha Base.
- b. Students arrive and organize in staging area.
- c. Detail conducts range set-up as applicable.
- d. Cadre & students receive 'Range Orientation/Safety Briefing'.

2. Ammunition

- a. Ammunition will be under range cadre control at all times.
- b. All ammunition will be segregated by weapons system at all times.
- c. Procedures and precautions in appropriate FM's and TM's will be observed in all preparation and firing operations.

3. Safety

- a. Field Litter Ambulance (FLA) or Combat Lifesaver will be on-site at all times.
- b. 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.
 - (5) Wet Bulb.

ATSH-INB-D

SUBJECT: Red Cloud Range Complex Scenario for Infantry Mortar Leader Course (IMLC) (2E-SI3Z/010-ASIB1), Lesson (071-FRBKB904).

(6) Hearing Protection.

(7) Eye Protection.

(8) Commanders Risk Assessment.

c. All personnel will receive a safety briefing from the 'Range Safety Officer' prior to any training.

d. All personnel will have ear and eye protection.

e. Each mortar gun team will have at least one IMLC instructor as a gun safety.

f. All misfire/hang fire procedures will be conducted by IMLC cadre and IAW Army Regulations and unit SOP as they pertain to each individual mortar system.

g. In addition, during a misfire/hang fire situation all students will be moved 50 to 100 meters to the rear of the gun line.

h. In the event of a short round or a round out of the safety area, a check fire status will immediately go into effect.

i. Additionally:

(1) Range Alpha Base will be notified.

(2) An investigation will be conducted.

(3) The range will not go hot until cleared by investigation.

j. At no time will personnel advance down range of the firing line.

k. Safeties will ensure left and right limits are not violated.

l. Unused propellants will be placed in a covered wooden or metal container.

m. Disposal of unused propellant charges will be no less than 30 feet from the nearest weapon system, single layered, not more than 12 inches wide and arranged so as to burn into the wind. The lay will be no more than 15 feet long and using combustible material lit at the furthest end away from the propellants. Unused charges will be disposed of IAW Mortar SOP, Fort Benning MCoE Reg 350-19 and as part of the training for new Soldiers.

ATSH-INB-D

SUBJECT: Red Cloud Range Complex Scenario for Infantry Mortar Leader Course (IMLC) (2E-S13Z/010-ASIB1), Lesson (071-FRBKB904).

- n. Red Cloud Burn Pit located at grid: 949817. See table 5-9 in MCoE 350-19.
- o. The OIC and RSO will be Range Safety Certified via a US Army Range Certification Program as prescribed in DA PAM 385-63 Chap 1-7 to include a certification on 'Ballistic Mortar Firing Systems'.
- p. All Ballistic solutions/calculations and orientations will be manually verified upon notice of a Range Safety Diagram Violations from the Mortar Ballistic Computers cross reference of the Chief Computer and Check Computer.
- q. All equipment will be verified operational by the OIC before utilization and instruction begins.
- r. All Risk Management Worksheet concerns will be observed. Violations of any will be brought to the attention of the RSO, Range Cadre, DS Cadre or Trainee Leaders to be addressed.
- s. All fire extinguishers will be operational and in place.
- t. Unit will maintain continuous contact with Range Alpha Base at all times. If communications are lost the unit will go into a self induced check fire until communications are restored.
- u. When an incident occurs on the range, regardless of injury or not, the OIC/RSO will immediately report it to Range Alpha Base and the using unit's higher headquarters. The following information will be furnished by the OIC/RSO to Range Alpha Base:
 - (1) Designation of unit.
 - (2) Range and location.
 - (3) Type of weapon involved.
 - (4) Type of ammunition involved.
 - (5) Brief summary of what happened.
 - (6) Personnel injuries and extent.
 - (7) Full Name, SS#, Rank and unit of injured personnel.
 - (8) Extent of property damage.
 - (9) Intentions regarding an AR 15-6 investigation.

ATSH-INB-D

SUBJECT: Red Cloud Range Complex Scenario for Infantry Mortar Leader Course (IMLC) (2E-SI3Z/010-ASIB1), Lesson (071-FRBKB904).

v. 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 units higher Headquarters and Range Alpha Base will be notified in this event. There will be no deviations to this packet unless it is approved by Range Operations.

4. POC for this memorandum is SFC Hurst, 1/19 In. Bn IMLC Course, Range NCOIC (545-9730).



JAYMON A. BELL
CPT, IN
Executive Officer



DEPARTMENT OF THE ARMY
HEADQUARTERS UNITED STATES ARMY MANEUVER CENTER OF EXCELLENCE
1 KARKER STREET
FORT BENNING, GEORGIA 31905-5000

REPLY TO
ATTENTION OF
ATZB-SO

09 March 2012

MEMORANDUM FOR Commander, 2/29th IN Bn., Attn: SSG Binder, Fort Benning, GA 31905

SUBJECT: 2-29th IN Bn 120, 81, and 60 MM Mortar Fire on Red Cloud Range Safety Review

1. References.

- a. 2-29th IN Bn 120, 81, and 60 MM Mortar Fire on Red Cloud Range, 03 February 2012.
- b. Army Regulation 385-10, The Army Safety Program, 24 August 2007
- c. Army Regulation 385-63, Range Safety, 19 May 2003
- d. Department of the Army Pamphlet 40-501, Hearing Conservation Program, 10 December 1998
- e. Department of the Army Pamphlet 385-10, Army Safety Program, RAR 19 January 2010
- f. Department of the Army Pamphlet 385-30, Mishap Risk Management, RAR 01 February 2010
- g. Department of the Army Pamphlet 385-63, Range Safety, RAR 12 May 2009
- h. Field Manual 5-19, Composite Risk Management, August 2006
- i. MCoE Regulation 350-19, Range and Terrain Regulation, 23 July 2010

2. Document received on 09 February 2012.

3. Concur.

ATZB-SO

SUBJECT: 2-29th IN Bn 120, 81, and 60 MM Mortar Fire on Red Cloud Range Safety Review

4. Point of contact is Mr. Michael W. Risher II, MCoE/Fort Benning Safety Office, Comm. (706) 545-8278, Govt. Cell. (706) 604-7249, michael.w.risher.civ@mail.mil


JILL E. CARLSON
Director, MCoE/USAG Safety

COMPOSITE RISK MANAGEMENT WORKSHEET

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

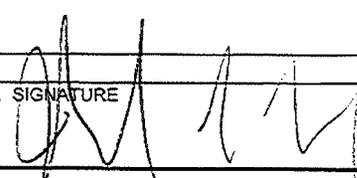
1. MSN/TASK 071-FRBKB905/B924 RED CLOUD ; LIVE FIRE	2a. DTG BEGIN 150001OCT2013	2b. DTG END 142359OCT2014	3. DATE PREPARED (YYYYMMDD) 20131015
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4. PREPARED BY		
a. LAST NAME HURST	b. RANK SFC	c. POSITION MASTER TRAINER

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?
Live Fire Exercises	1. Situational Awareness (general) Lines '1a-1g'.	M	1a) Range Cadre review approved Composite Risk Management Worksheet.	L	Lines '1a-1g' will be implemented IAW the following:	Range OIC; Range Safety Officer; Range Cadre.	
			1b) Identify all current and qualified Combat Lifesavers (or certified EMT's), and take inventory and accountability of all CLS kits as well as location of kits.		1. IAW Army Safety Program DA Pam 385-10.		
			1c) OIC/RSO consult Soldiers to identify any and all Soldiers with known, suspected, or potential medical problems that may impact training to include minor illnesses, allergies, previous heat or cold weather injuries, or environmental sensitivities.		3. MCoE Reg 350-19 Range & Terrain Regulation.		
			1d) Review EVAC procedures and reporting protocol for serious incidents, i.e.: Soldiers with allergic reactions, personnel within 25m of a lightning strike, hot/cold weather injuries, snake-bite, or anyone exhibiting signs, symptoms or distress beyond the experience of the OIC/RSO or the Combat Lifesaver's ability to treat.		4. USAIC Reg. 40-14 Prevention of Heat Injury.		
					5. TRADOC Reg. 350-29 Prevention of Heat and Cold Casualties. 6. IAW MCOE PM 385-6-13		
					6. USAIC Policy Memo 350-6-2 Standardized Marking of Soldiers at Risk.		

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

13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check one)			
<input type="checkbox"/> LOW	<input checked="" type="checkbox"/> MODERATE	<input type="checkbox"/> HIGH	<input type="checkbox"/> EXTREMELY HIGH

14. RISK DECISION AUTHORITY			
a. LAST NAME READ, MARK R.	b. RANK LTC	c. DUTY POSITION 1ST BATTALION, 19TH INFANTRY REGIMENT 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?
Live Fire Exercises	1. Situational Awareness (general) Lines '1a-1g'. (Continued)	M	1e) Ascertain what type of training the unit has been doing for the previous 24 hours and if the Soldiers receive adequate rest; adjust daily risk assessment as necessary.	L	7. 1-19 IN REGT Policy on Range Operations.	Range OIC; Range Safety Officer; Range Cadre.	
			1f) Enforce range uniform, i.e.: personal hydration systems worn at all times (Camelback); appropriate clothing for weather conditions; ballistic eyewear.		8. Physically consolidate and brief all leaders daily utilizing the CRMW as a guideline, prior to training activities.		
			1g) OIC/RSO conduct range orientation and safety brief (daily) once accountability of all personnel has been taken and all Soldiers are in attendance.		9. ALL HAZARDS: USAIC Safety SOP 385-6 Risk Management for Operations & Training.		
Live Fire Exercises	2. Hot Weather Injuries Lines '2a-2h'.	M	2a) OIC/RSO and Range Cadre will frequently monitor the Wet Bulb Thermometer and disseminate heat index conditions to all range cadre.	L	Lines '2a-2h' will be implemented IAW the following:	Range OIC; Range Safety Officer; Range Cadre.	
			2b) Include signs and symptoms of heat related injuries in the range safety briefing prior to training.		1. USAIC Reg. 40-14 Prevention of Heat Injury.		
			2c) Monitor all previous heat injuries utilizing the 'buddy-system' and range cadre supervision.		2. TRADOC Reg. 350-29 Prevention of Heat & Cold Casualties.		
			2d) Range OIC/RSO and Range Cadre will adhere to the 'Work/Rest & Water Consumption Table' (TB MED 507).		3. USAIC Policy Memo 350-6-2 Standardized Marking of Soldiers at Risk.		
			2e) Adjust range uniform in accordance with heat-category uniform guidance.		4. 1-19 IN REGT Policy on Range Operations 5. IAW MCOE PM 385-6-13		
			2f) Enforce hydration at all times: ensure Soldiers are 'topping-off' Camelbacks and/or canteens.		6. Physically consolidate and brief all leaders daily utilizing the CRMW as a guideline, prior to training activities		
			2g) Ensure and maintain that ice chests are present and filled with ice with an adequate amount of ice-sheets.				

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?
Live Fire Exercises	2. Hot Weather Injuries Lines '2a-2h'. (Continued)	M	2h) Range Cadre conduct rehearsals and 'man-down' drills for treatment of a heat-casualty.	L		Range OIC; Range Safety Officer; Range Cadre.	
Outdoor Training Activities	3. Cold Weather injuries. Lines 'a-d'	M	3a) Include signs and symptoms of cold related injuries in the range safety briefing prior to training.	L	Lines '3a-3d' will be implemented IAW the following:	Range OIC; Range Safety Officer; Range Cadre.	
			3b) Monitor all previous cold injuries utilizing the 'buddy-system' and range cadre supervision.		1. TRADOC Reg. 350-29 Prevention of Heat & Cold Casualties		
			3c) Adjust range uniform in accordance with physical intensity of training and Wind-Chill factor chart.		2. USAIC Policy Memo 350-6-2 Standardized Marking of Soldiers at Risk		
			3d) Enforce hydration at all times; ensure Soldiers are 'topping-off' Camelbacks and/or canteens.		3. 1-19 IN REGT Policy on Range Operations 4. Brief all leaders utilizing the CRMW as a guide		
Outdoor Training Activities	4. Animal bites; Insect bites/stings. Lines '4a-4f'.	M	4a) Range Cadre will ensure all grass on the range where Soldiers conduct training activities is cut to no more than 4 inches in height prior to training.	L	Lines '4a-4f' & '5a-5c' will be implemented IAW the following:	Range OIC; Range Safety Officer; Range Cadre.	
			4b) Range Cadre will locate and remove or destroy any insect nests, hives, burrows, webs, etc., prior to the training cycle.		1. USAIC Policy Memo 350-6-2 Standardized Marking of Solider's at Risk		
			4c) OIC/RSO and Range Cadre will identify all Soldiers who are known to have an allergic reaction to bites or stings.		2. 1-19 IN REGT Policy on Range Operations 3. IAW MCOE PM 385-6-13		
			4d) OIC/RSO will ensure First Aid Kits/CLS kits are on hand a readily accessible to treat animal bites or insect stings.		4. Physically consolidate and brief all leaders daily utilizing the CRMW as a guideline. prior to training activities		
			4e) OIC/RSO and Range Cadre will brief to all range cadre the necessary actions to take regarding animal bites and insect bites or stings. MEDEVAC procedures will be briefed		4. MCoE Reg 350-19 Range & Terrain Regulation		

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?
Outdoor Training Activities	4. Animal bites; Insect bites/stings. Lines '4a-4f. (Continued)	M	regarding snake bites and bee/wasp stings.	L	5. RSO briefs all Cadre on Snake Bite First Aid procedures IAW FM 21-11, Ch. 6: Snake Bites.	Range OIC; Range Safety Officer; Range Cadre.	
			4f) OIC/RSO will include the hazards of and awareness regarding animal encounters and bites and insect bites/stings in the range safety brief.		6.IAW MCOE PM 385-6-13		
Outdoor Training Activities	5. Severe Weather injuries (Lightning and Tornado) Lines '5a-5c'.	M	5a) OIC/RSO will give detailed safety briefing on severe weather procedures to include locations of severe weather-safe areas on the range.	L	1. MCoE Reg. 350-19 Range & Terrain Regulation	Range OIC; Range Safety Officer; Range Cadre.	
			5b) OIC/RSO will review severe weather reaction and evacuation procedures with all range cadre.		2. 1-19 IN REGT Policy on Range Operations		
			5c) OIC/RSO will vigilantly monitor range control net for severe weather advisories and keep all personnel on the range informed of developing weather conditions.		3. Physically consolidate and brief all leaders daily utilizing the CRMW as a guideline, prior to training activities		
Handling & Manipulating the Mortar Fire Control System.	6. Exposure to Radioactive Materials. Lines '6a-6d'.	M	6a) OIC or RSO will inform Soldiers during the safety brief of the danger of exposure to Tritium (H3) radioactive gas sealed in the glass vials of the M64A1 and M67 sight	L	Lines '6a-6d' will be implemented IAW the following:	Range OIC; Range Safety Officer; Range Cadre.	
			units as well as in the M58/59 aiming post lights.		1. IAW 'Warning' and handling procedures as outlined in TM Operator's Manual for the Mortar		
			6b) OIC/RSO will inform Soldiers on the proper procedures and techniques for handling of the sight units and aiming post lights.		system being fired 2.IAW MCOE PM 385-6-13		
			6c) All cadre will immediately remove damaged sight units and/or aiming post lights from the training area and package it according to the directions set forth in the item's technical-		3. Physically consolidate and brief all leaders daily utilizing the CRMW as a guideline, prior to training activities		
			manual for removal from the range to the weapons pool.				

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?
Handling & Manipulating the Mortar Fire Control System.	6. Exposure to Radioactive Materials. Lines '6a-6d'. (Continued)	M	6d) Soldiers exposed to radioactive material, known or suspected will be immediately evacuated to Martin Army Community Hospital for treatment.	L	1. MCoE Reg. 350-19 Range & Terrain Regulation	Range OIC; Range Safety Officer; Range Cadre.	
					2. 1-19 IN REGT Policy on Range Operations		
					3. Physically consolidate and brief all leaders daily utilizing the CRMW as a guideline, prior to training activities		
	7. Soldiers injured while handling, down-loading or up-loading mortar equipment. Lines '7a-7c'.	M	7a) OIC/RSO will brief Soldiers on the proper handling techniques for loading, unloading and handling of all mortar equipment during the safety brief.	L	Lines '7a-7c' will be implemented IAW the following:	Range OIC; Range Safety Officer; Range Cadre.	
			7b) All cadre will supervise and enforce the proper handling of all equipment throughout the duration of training.		1. MCoE Reg. 350-19 Range & Terrain Regulation		
			7c) Range Cadre will ensure that Soldiers ground all personal equipment or gear that may hinder or interfere with the safe handling of equipment while uploading or downloading		2. 1-19 IN REGT Policy on Range Operations		
			from the tally-trucks prior to and following training activities.		3. Physically consolidate and brief all leaders daily utilizing the CRMW as a guideline, prior to training activities		

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?
Handling & Manipulating the Mortar Fire Control System.	9. Mortar Round fires unexpectedly during Misfire Procedures. Lines '9a-9c'.	M	9a) OIC/RSO reiterate during the Range Safety Brief that anyone can and is required to announce "misfire" during the Live Fire Exercise.	L	Lines '9a-9c' & '10a-10d' will be implemented IAW the following:	Range OIC; Range Safety Officer; Range Cadre.	
			9b) Only range cadre will execute Misfire Procedures utilizing the guidelines for Misfire Procedures extracted from FM 3-22.90, read step-by-step and verbatim by the RSO during		1. MCoE Reg. 350-19 Range & Terrain Regulation.		
			the actual procedure.		2. 1-19 IN REGT Policy on Range Operations.		
			9c) Range Cadre will ensure that all trainees are physically consolidated at least 50 meters behind the firing line during Misfire Procedures.		3. ALL HAZARDS: USAIC Safety SOP 385-6 Risk Management for Operations & Training.		
Handling & Manipulating the Mortar Fire Control System.	10. Body part not clear of the muzzle during Live Fire operations. Lines '10a-10d'.	M	10a) During Live Fire, Individual Cadre at the firing point will be positioned to physically and verbally control every action of the Soldier, step-by-step.	L	4. All Range Cadre will conduct misfire procedure rehearsals prior to exercise.	Range OIC; Range Safety Officer; Range Cadre.	
			10b) All Soldiers conducting Live Fire training will conduct Dry-Fire rehearsals with their respective firing point cadre. Soldiers will physically mimic hanging and firing a live round.		5. Firing Point Cadre conduct dry-fire rehearsals with each individual Soldier assigned to their firing point prior to LFX.		
			10c) Individual firing point cadre will reiterate and stress to individual Soldiers the safety and situational awareness aspects of hanging and firing a live mortar round. Cadre will ensure a		6. Brief all leaders utilizing the CRMW as a guide. 7. IAW MCOE PM 385-6-13		
			acknowledgment from the individual Soldier is received.				
			10d) When firing the 60mm Mortar in the Handheld mode of operation, firing point cadre will visually & physically check to ensure that the firing selector switch is turned to 'SAFE' -				
			each and every time a round is released into the canon. Cadre will verbally tell the Soldier when to place the weapon system on 'FIRE' and observe the Soldier perform the action.				

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?
Handling & Manipulating the Mortar Fire Control System.	11. Hearing Loss or Injury during Live Fire Operations.	M	11a) OIC/RSO inform Soldiers of the hazards associated with mortar live fire operations regarding hearing injury or loss during the Range Safety Brief.	L	Lines '11a-11c' & '10a-10d' will be implemented IAW the following:	Range OIC; Range Safety Officer; Range Cadre.	
			11b) Range Cadre provide ear-plug hearing protection for each individual Soldier on the Range (if not already issued and in possession of the individual Soldier).		1. ALL HAZARDS: USAIC Safety SOP 385-6 Risk Management for Operations & Training.		
			11c) OIC/RSO and Range Cadre inspect for and ensure that Soldiers are physically utilizing hearing protection when within 50 meters of the firing line during-		2. 1-19 IN REGT Policy on Range Operations.		
			Live Fire operations. Individual firing point cadre will conduct a final check of the Soldier once positioned on the actual firing point/mortar system.		1. IAW 'Warning' and handling procedures as outlined in TM Operator's Manual for the Mortar		
					system being fired 2. IAW MCOE PM 385-6-13		
					3. HQDA MACOM Safety Program DA Memo 385_3		
					4. Brief all leaders utilizing the CRMW as a guide.		
Handling & Manipulating the Mortar Fire Control System.	12. Mortar Round out of impact area.	M	12a) Each individual mortar firing point will be managed by IMLC cadre. Firing point cadre will physically check to ensure that the appropriate charge has been prepared for	L	Lines '12a-12b' will be implemented IAW the following:	Range OIC; Range Safety Officer; Range Cadre.	
			firing IAW with the 60mm Mortar Tabular Firing Data; that the weapon is pointed up and downrange at all times when on the firing line; and issue the Soldier step by step instructions.		1. ALL HAZARDS: USAIC Safety SOP 385-6 Risk Management for Operations & Training.		
			12b) OIC/RSO will brief and ensure that all mortar cadre understand the constraints and limitations of the safety fan for the given impact area.		2. 1-19 IN REGT Policy on Range Operations.		

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?
Handling & Manipulating the Mortar Fire Control System.	12. Mortar Round out of impact area. (Continued)				1. IAW 'Warning' and handling procedures as outlined in TM Operator's Manual for the Mortar	Range OIC; Range Safety Officer; Range Cadre.	
					system being fired		
					4. HQDA MACOM Safety Program DA Memo 385-3		
					5. OIC/RSO will consolidate and brief all firing point cadre as per the approved Safety Plan.		



RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



Date Submitted: 11/19/2013

EMD Number: 1332308

Project#: 071T6893

Project Title: Call for Fire LFX, Support by Fire, SBF, LFX

Description of proposed action:

During this training event, soldiers will be familiarized with US heavy weapons systems to include the following: M136 AT-4; M287 Sub-cal; M203 grenade launchers; M249/M240B machinegun; M2 .50 cal machinegun; MK-19 grenade launcher; M224 60mm; M252 81mm, and the M120/M121 120mm mortar systems. The following ammunition will be utilized 84mm HEAT, 60mm, 120mm LIVE, 40mm HEAT/TPT, .50 cal ball, tracer, AP, API, APIT, 5.56mm, 7.62mm ball and blank. Soldiers will also conduct a Call for Fire (CFF) and a Support by Fire (SBF) event.

Project Location:

Red Cloud Range

Amount, Description, Location of Disturbance/Digging:

None

Number of Personnel:

160-200

Type of Ammunition:

60mm;81mm Mortar;.50 Cal;MK-19;M240B;M249;M4;M203 Live and Blank

Number/Types of Trees:

None

Size of Project Area:

Duration of Action:Start: 12/3/2013 Stop: 9/30/2014

Proponent: rhonda.doleman

706-545-5916

Organization/Unit: BOLC-B / 2-11 IN

Number/Types of Vehicles:

Number of vehicles:6-10
Types of vehicles: HMWWV, GSA
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."

REC APPROVED THROUGH 30 SEPTEMBER, 2014

Noise

Conditions:

Ellis Leeder (706 545 2400), 11/19/2013

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. Units that do air missions will now be required to bring a copy of their RFMSS request to Lawson Army Airfield (LAAF) when coordinating for Airspace requirements. 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: 1332308

IJO# 071T6893

Project Title: Call for Fire LFX, Support by Fire, SBF, LFX

Hazardous Materials/Waste

Conditions:

Carlos Ariasochoa (706 545 1857), 11/20/2013

Any wastes generated must be evaluated for their hazardous characteristics and disposed of in accordance with all Federal, State and Fort Benning Hazardous Waste Regulations. Appropriate precautions must be taken to prevent hazardous material spills. Adequate quantities of spill response supplies must be on hand while work is being performed. If a spill occurs use notification procedures as outlined in the Fort Benning Hazardous Waste Management Plan. Contain and clean up any spill according to guidance provided by the Environmental Programs Management Branch. 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. EPMB provides an 8 hours course covering Hazardous Materials/Waste Management, Hazardous Waste Minimization, Safety, and Pollution Prevention.

CWA - Training

Conditions:

Leah Ropski (706 626 0492), 11/19/2013

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.

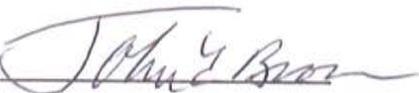
General ISCP Requirements: In the event of a spill/discharge -- notify Range Control by radio or call 544-6291, and they will notify E-911 for Fire Department/HAZMAT Team assistance and/or notification of the EMD office (Spill Beeper 706-317-6584). As appropriate, and if personnel are trained -- REACT 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), 11/19/2013

Signature



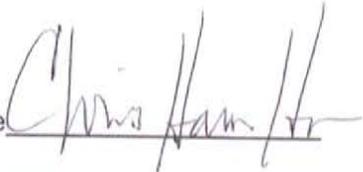
John E Brown

NEPA Program Manager

Date

20 NOV 2013

Signature



Christopher E. Hamilton, PhD

EPMB Chief

Date

20 Nov 13

Red Cloud 198TH IN BDE Fire w/o FDC (IMLC), Roadblock List , 15 Apr 14

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

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

RED CLOUD

BLEACHERS

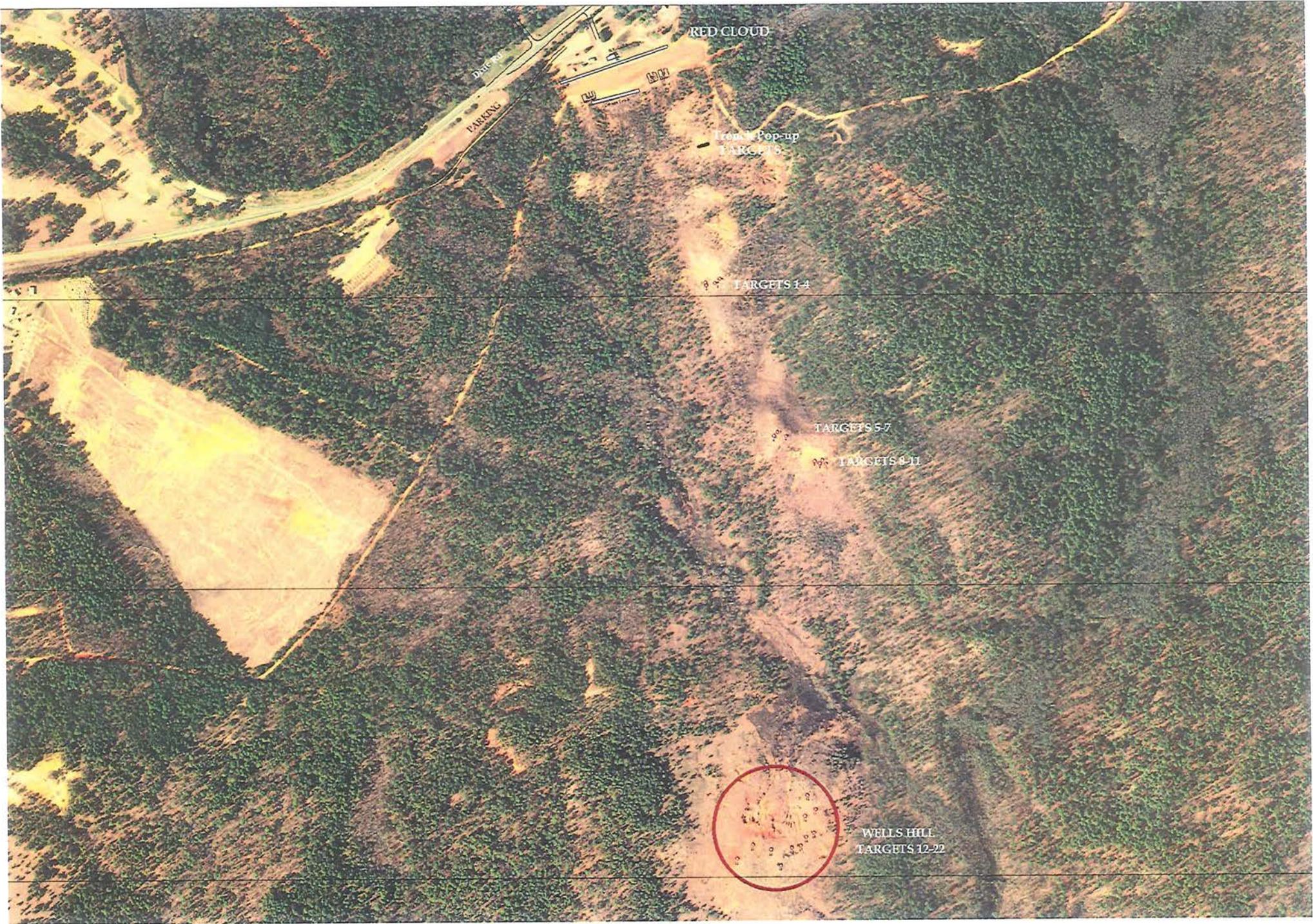
BP2 BP1

BP4 BP3

Concrete Trench

Trench Pop-up
TARGETS





RED CLOUD

DISC

PARKING

Iron & Pop-up
TARGETS

TARGETS 1-4

TARGETS 5-7

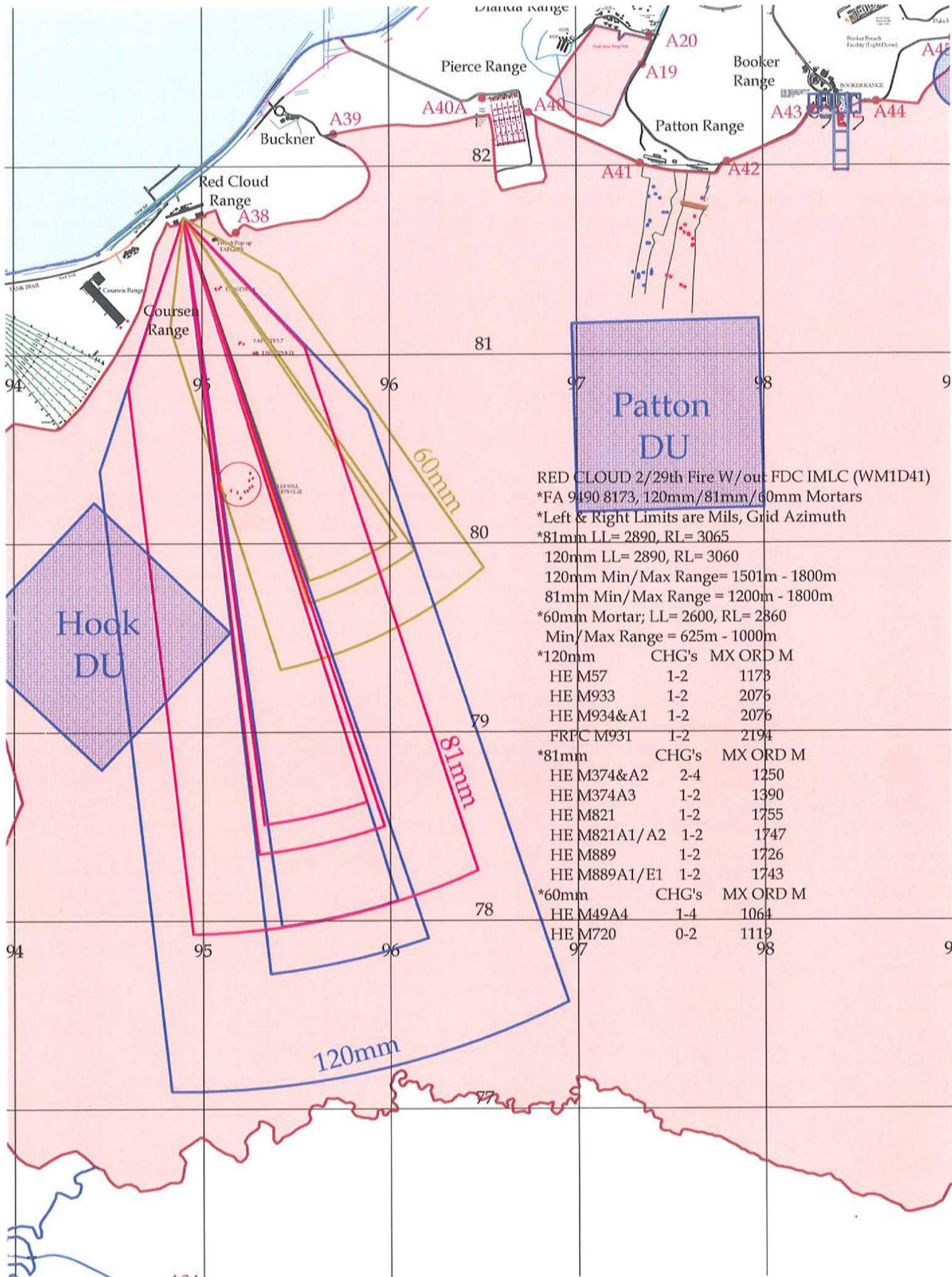
TARGETS 8-11

WELLS HILL
TARGETS 12-22

7

7





RED CLOUD 2/29th Fire W/out FDC IMLC (WM1D41)

*FA 9490 8173, 120mm/81mm/60mm Mortars

*Left & Right Limits are Mils, Grid Azimuth

*81mm LL= 2890, RL= 3065

120mm LL= 2890, RL= 3060

120mm Min/Max Range= 1501m - 1800m

81mm Min/Max Range = 1200m - 1800m

*60mm Mortar; LL= 2600, RL= 2860

Min/Max Range = 625m - 1000m

*120mm CHG's MX ORD M

HE M57 1-2 1173

HE M933 1-2 2076

HE M934&A1 1-2 2076

FRFC M931 1-2 2194

*81mm CHG's MX ORD M

HE M374&A2 2-4 1250

HE M374A3 1-2 1390

HE M821 1-2 1755

HE M821A1/A2 1-2 1747

HE M889 1-2 1726

HE M889A1/E1 1-2 1743

*60mm CHG's MX ORD M

HE M49A4 1-4 1064

HE M720 0-2 1119