

FIRING/NONFIRING DATA

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

Log # 1-7-13

TO: Chief, Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905	Date: Range: DMPRC Title: ABV MICLIC LIVE FIRE AND SMALLS ARM FIRE .50 CAL Problem No:
THRU: ASSAULT BREACHER VEHICLE PLATOON MARINE TRAINING COMPANY US ARMY ARMOR SCHOOL 10288 7TH CALVARY REGIMENT ROAD	FROM: MARINE CORPS DETACHMENT MARINE TRAINING COMPANY US ARMY ARMOR TRAINING SCHOOL 7TH CALVARY REGIMENT ROAD

SECTION I, TYPE OF TRAINING

a. Live Fire
 b. Non-live Fire
 CP/Controller Coordinates: 0986 8875

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

Coordinates	Type	Model/DODAC	Size of Charges
1346 9079	MICLIC HE	M154	2 KITS

SECTION III, WEAPONS/AMMUNITION REQUESTED

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
1346 9079	MICLIC M154	HE	030 Deg's	105 Deg's
BP3A: 1034 8928	M2 .50 CALIBER HB MACHINE GUN M48	CARTRIDGE, CAL .50/ 3 BALL M2, 1 TRACER M10, MACHINE GUN(A557)	050 Deg's	060 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: GySgt Gonzalez, Crescencio 	Name/rank of Major Unit S3/Commander: Hughes, Daniel E. Major/Company Commander
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SECTION VI, FOR RANGE DIVISION USE

DATE: 130516 5 Jun 13

TO: MARINE CORPS DETACHMENT MARINE TRAINING COMPANY US ARMY ARMOR TRAINING SCHOOL 10288 7TH CALVARY REGIMENT ROAD	FROM: Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905
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a. Roadblocks to be closed:	SEE ENCLOSURES
b. Road(s) to be closed/road barrier locations:	SEE ENCLOSURES
c. Remarks:	
d. This approval expires: Indef	

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



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

13 May 2013

MEMORANDUM FOR Commander, U.S. Marine Corp Detachment, Attn: SSG B. L. Stone,
Fort Benning, GA 31905

SUBJECT: USMC Assault Breacher Vehicle MICLIC & M2 Firing at DPMRC Concept and
Safety Review

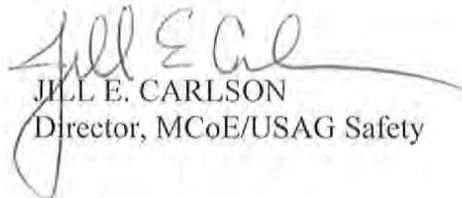
1. References.

- a. Live Fire for DMPCRC, dated 06 June 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 385-10, Army Safety Program, RAR 19 January 2010
- e. Department of the Army Pamphlet 385-30, Mishap Risk Management, RAR 01 February 2010
- f. Department of the Army Pamphlet 385-63, Range Safety, RAR 12 May 2009
- g. Field Manual 5-19, Composite Risk Management, August 2006

2. Concur w/comment.

a. CRMW. This is a HIGH-risk event; due to the quantity (1750 lbs) of explosives and that this is a demolition event, therefore requiring the Armor Commandant signature for approval IAW MCoE Policy 385-6-14, dated 22 October 2012.

3. 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



UNITED STATES MARINE CORPS
MARINE CORPS DETACHMENT
MANEUVER CENTER OF EXCELLENCE
5141 WILCOX STREET
FORT BENNING, GA 31905

IN REPLY REFER TO
06 Jun 2012

From: Platoon Commander, Assault Breacher Vehicles School
Fort Benning Georgia.

To: Chief, Range Operations, Fort Benning, Georgia

SUBJECT: LIVE FIRE FOR DMPCRC

1. The following outlines the scenario of the events that will be conducted by the MARDET ABV school that will incorporate the use of 2 ABV's (Assault Breacher Vehicles) for a M48 .50 caliber live fire exercise, and the use of 1 ABV to conduct a live fire of 2 MICLIC's (Mine Clearing Linear Charge). This exercise will be conducted on the DMPCRC, and broken down into two phases.

2. **Phase 1, scheme and maneuver:**

A. The ABV will be uploaded with (2) MICLIC's, and (2) 5 inch MOD4 rocket motors at the DMPCRC. A safety brief will be given by the lead instructor on the range which will outline safe standoff distances both covered (300m) and uncovered (800m), and the safe noise hazard distance of (1600) meters. Final checks will be made to the MICLIC, and personnel loaded into the ABV. The RSO will then ensure that all personnel on the range are accounted for and all are at proper standoff distances. The ABV will then move into position on the DMPCRC and orientate North by North East (see enclosure). All requests to fire will be given by the RSO of the range. Once the ABV is in position, the VC will notify the RSO that the LDCS (Linear Charge Demolition System) lids are in mode to be raised. The lead instructor will be located inside the turret with the students to ensure proper and safe handling of the control box. Once we are cleared by the RSO, the lead instructor will then instruct the student to raise the lids of the LDCS, and perform a final test inspection of the system. Once the final test has been finished, the VC will then request permission to launch rocket and lay the charge. Once the rocket has been launched, and there is a confirmation of a proper lay, the VC will then request permission to detonate charge. The RSO is then responsible for ensuring a final head count of all personnel on the range before clearing the VC for detonation. Once a head

count is at 100%, the RSO can then give permission to detonate. The VC will then initiate the detonation of the MICLIC.

B. On detonation, all personnel on the range will remain in place for 30 seconds after to ensure that they are not struck by falling debris. In the event that the charge fails to detonate, the lead instructor in the ABV will then take control. An attempt to detonate will be conducted again. If after the second attempt is made and unsuccessful, power will be recycled on the LDCS from inside the vehicle and a final attempt will be made in accordance with TM procedures.

C. If a detonation fails to initiate, the lead instructor will then call a misfire on the line, and at that time will start a 30 minute standby period for a delayed detonation. The RSO at that time will notify range control of the misfire, the time of the 30 minute standby, and request for EOD support. EOD emergency response line is (706)545-4154. All crew members inside the ABV will remain in a closed hatch protected posture until the charge has been reduced.

D. Once both MICLIC's are detonated, the AVB will egress back up range to the ammo staging area, and the RSO will conduct a final head count of all personnel on the range. The ABV instructors will then download the empty MICLIC tubs and spent rocket motors, and begin preparing for phase 2 of the M48 .50 caliber live fire exercise.

3. Phase 2, Small arms .50 Caliber Machine Gun shoot:

A. Once the ABV has been cleared of both MICLIC tubs and spent rocket motors, the ABV instructors will begin the upload of .50 caliber ammunition onto the ABV platform.

B. Once uploaded, the ABV's will leave the ammo staging pad and move down range to the firing points (see enclosure). Once the ABV's have reached the firing point, the engines will be shut down. Both ABV's will fire from a static position, and only require 2 targets per vehicle. All students will be put into a formation to receive their safety brief. Left and right lateral limits will be pointed out, and student will be instructed not to fire to either side of those set limits. Vehicles will then move to Battle Position (BP) 3A. Targets SA18, SA4, SA5, and SA6 will be provided to the students as targets of engagement. After the completion of the safety brief, two students at a time will be brought up by the RSO and mount the vehicle from the rear right sprocket only, and make their

way to the VC hatch. The appropriate range flags will be displayed at all times during live firing exercise by the instructors located on the ABV's. The students will then take their place inside the VC hatch and stand by for further word from the RSO. When the RSO has conducted a proper change over, he will then clear the instructors to load their weapons station. Once both weapons stations have been loaded, the RSO can then give the command to fire when targets appear. Each student will fire on their assigned target(s), SA18, SA4, SA5, SA6, until they have completed all rounds.

C. At any time, should there be a malfunction with the weapon, the instructor on that vehicle will call a cease fire on the line, and immediately notify the RSO. The line will remain in a cease fire status until cleared with Range Control.

D. After all rounds have been fired, the instructor on each platform will clear that weapon and secure it from use, elevate the muzzle, and display the proper range flags. Students will then conduct a police call of all brass, and any remaining live rounds will be turned into the RSO for return to the Ammunition Supply Point (ASP).

E. After clean up has been conducted, all students will be formed on line, and a detailed "shakedown" will be conducted by the instructors and the RSO IAW MCoE Reg 350-19.

F. Instructors and RSO will ensure that all brass and trash has been turned in, a final head count of all personnel will be conducted, students will be loaded onto transportation, and the ABV platoon will depart the DMPCRC after calling in for a closing code.

4. **Safety:**

A. The RSO will maintain accountability at all times of the personnel that are on the range during, before, and after the live fire event.

B. The MICLIC's will be taken from the truck and loaded onto the ABV and secured by the ABV instructors only to ensure proper handling. DODICS will also be verified to ensure the MOD4 Rockets, MICLIC charges, and .50 cal ammo are live. The loading of the charges and .50 cal ammunition will be conducted at the ammunition pad located aboard the DMPCRC only.

C. The ABV will conduct a radio check with the RSO prior to heading down range. All commands will be given by the RSO to the AVB via radio communication. On detonation of the ABV, all personnel on the range will remain in a covered or safe standoff position for 30 seconds after to allow fall out to dissipate.

D. In the event of a misfire of the MICLIC, the RSO will notify range control of the misfire, the start time and ending time of the 30 minute standby, and request EOD support.

E. In the event of a misfire or malfunction of a machine gun, the RSO will be notified, and proper actions to clear the weapon will be taken. In the event of a malfunction, the line will be put into a self induced cease fire until cleared by Range Control.

F. Once firing is complete, the RSO will move forward and clear the vehicle, and a range clean up will be conducted to retrieve the 2 spend 5 inch rocket motors, and the M88 recovery vehicle will utilize its spade blade to smooth out the detonation path left by the MICLIC.

G. Once firing is complete with the machine guns, the RSO will move forward and clear each weapon, and a range clean up will be conducted of all spent brass.

H. All appropriate road guards will be stationed IAW MCOE 350-19. (See road roadblock enclosures.) All participants and spectators will receive a detailed range orientation. Hearing protection will be provided to all. One FLA (front line ambulance) driver, and one medic will be present on the range and located inside the vehicle at all times and medical support will be briefed on the evacuation route.

I. All firing will be carefully monitored by both the lead instructor in the vehicle and the RSO to ensure that proper SDZ's are used. The RSO and lead instructor will ensure that the ABV is properly secured prior to departing the range. Once at the firing line, the ABV will remain in a closed hatch protected posture until all live fire has been completed.

J. All safety and immediate action procedures for the MICLIC will be conducted IAW TM 10984A-OR/1, TM 10984A-OR/1V2 and TM 08982A-14&P/2B. (1372-DEMO-1001f) and jettison procedures TM 10984A-OR/1, TM 10984A-OR/1V2 and TM 08982A-14&P/2B. (1372-DEMO-1001g)

K. All safety and immediate action procedures for the 50 caliber machine gun will be conducted IAW M2 TM 9-1005-213-10.

L. All vehicles will display the proper range flags IAW MCOE REGULATION 350-19.

M. **LASER's**: Class III lasers are not eye safe on dual low mode within 25 meters. PEM-1A is not a tactical laser and must be used within 25 meters. Laser Warning Signs will be in place prior to opening range. **Range safety briefing will include hazards using Laser and NVD's.**

N. **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.

O. **Incident**: In the event of an accident, injury, or incident, the RSO/OIC will immediately call a cease fire until the problem is resolved. The RSO will render reports to Range Control and take action as directed by Range Control. In the event the injury could result in the loss of life, limb, or eyesight, the RSO will call E911 and request air/ground evacuation. The following information will be furnished by the OIC/RSO to Range Control:

P. **Medical**: In the event of an accident, injury or illness, the OIC/RSO will immediately call a cease fire then call 911 using standard 9 line MEDEVAC to determine what type of evacuation is the most appropriate for the injury (loss of life, or limb or eyesight). MEDEVAC will be IAW MCoE Regulation 350-19 and USAIC 40-2. Landing zone for MEDEVAC aircraft will be established prior to use and will be marked appropriately. Range Control will be notified in this event. The cease fire will remain in effect until cleared through 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.

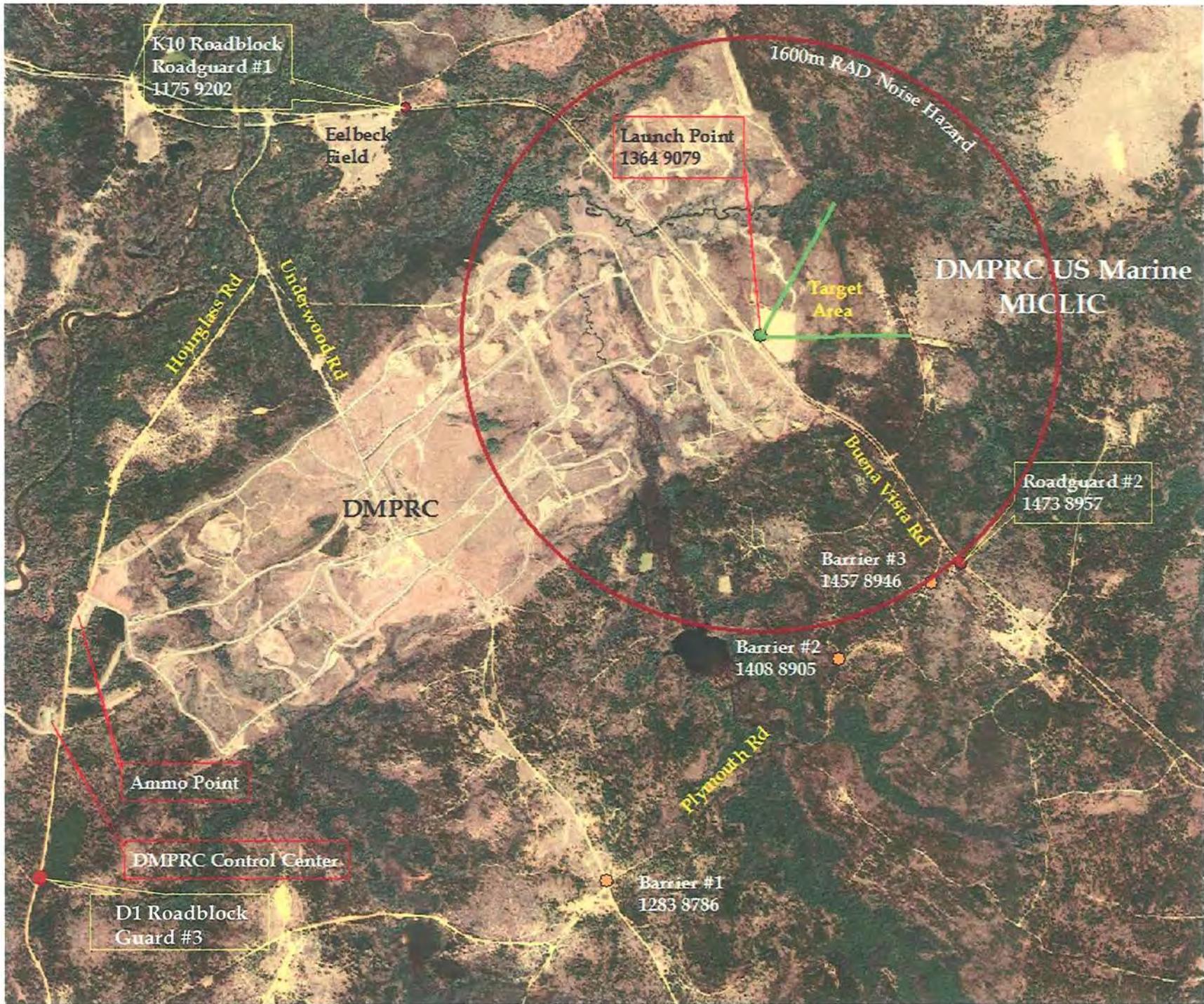
Q. Ammunition: There will be no de-linking or re-linking of any ammunition. Any ammunition that has been de-or re-linked is considered nonstandard and is prohibited on the range.

R. Weapons/Ammunition Malfunction Reports: When a malfunction is experienced, the OIC/RSO will suspend all firing and immediately notify Range Control. The weapons and all components and ammunition involved will remain in place. The cease fire will remain in effect until cleared through Range Control. An investigation is required and will be conducted by the ammunition and weapons inspection personnel and DOL.

5. The POC for this memorandum is GySgt Gonzalez C., ABV Platoon Commander at (706) 626-7158, and SSgt Stone B. L., ABV Platoon Sergeant at (706) 626-7195.



C. GONZALEZ



K10 Roadblock
Roadguard #1
1175 9202

Eelbeck
Field

Launch Point
1364 9079

1600m RAD Noise Hazard

DMPRC US Marine
MICLIC

Target
Area

Hourglass Rd

Underwood Rd

DMPRC

Buena Vista Rd

Roadguard #2
1473 8957

Barrier #3
1457 8946

Barrier #2
1408 8905

Plymouth Rd

Ammo Point

DMPRC Control Center

Barrier #1
1283 8786

D1 Roadblock
Guard #3

DMPRC USMC MICLCL Log #1-7-13 Roadblocks 1 April 2013

#	GRID	LOCATION	TYPE	#	GRID	LOCATION	TYPE
K-2	GA 163 883	Across Box Springs Rd 125m N. of its intersection with Buena Vista Rd.	Gate	K-27	GA 201 968	Across Turrentine Rd 10m W. of its intersection with Boundary Rd.	Gate
K-3	GA 153 894	Across entrance road leading to Concord OP 250m N. of its intersection with Buena Vista Rd.	Gate	K-28	GA 191 885	Across Whitson Rd 15m W. of its intersection with Cactus Rd.	Gate
K-4	GA 144 901	Across entrance road leading to Hartell Bunkers 50m N. its of intersection with Buena Vista Rd.	Gate	K-29	GA 189 888	Across un-named trail on left side of Cactus Range 300m W of Cactus Road	Gate
K-5	GA 117 920	Across Shamanski Rd 25m N. of its intersection with Buena Vista Rd.	Gate	K-30	GA 190 890	Across un-named trail on right side of Caclus Range 250m W of Cactus Road.	Gate
K-8	GA 099 947	Across Bulls Eye Rd 50m E of its intersection with Lorraine Road.	Gate	K-32	GA 192 915	Across Shamanski Road 35m W of its intersection with Cactus Rd.	Gate
K-9	GA 103 921	Across Buena Vista Rd 40m E of the intersection with Moore Rd (Road Guard Location)	Gate	K-36	GA 163 883	Across Buena Vista Rd 50m W. of its intersection with Box Springs Rd. (Road guard location).	Gate
K-9A	GA 106 919	Across tank trail 200m W of the Uptoi Creek ford site.	Gate	K-36A	GA 163 882	Across Tank Trail 50m W. of its intersection with Box Springs Rd.	Gate
K-10	GA 118 920	Across Buena Vista Rd at K-5 road block.	Gate	K-38	GA 201 941	Across unnamed trail 35m W. of its intersection with the east boundary road. Permanently closed.	Gate
K-11	GA 105 927	Across Moore Rd 20m N. of its intersection with Audernarde Trail. Entrance to Terry Demo Rng. (Road guard location)	Gate	K-39	GA 202 949	Across unnamed trail 15m W. of its intersection with the east boundary road. Permanently closed.	Gate
K-12	GA 104 988	Across Old Lorraine Road 600m S of the tower on Brooks Range.	Gate	K-40	GA 174 908	Across Box Springs Rd 30m S. of Pine Knot Creek.	Gate
K-13	GA 112 943	Across Moore Rd 680m N. of its intersection with Bullseye Rd.	Gate	K-41	GA 192 944	Across Kennesaw Trail 30m W. of its intersection with Box Springs Rd.	Gate
K-14	GA 113 998	Across Moore Rd 10m S. of its intersection with Lorraine Rd.	Gate	K-42	GA 193 944	Across Box Springs Rd 10m N. of its intersection with Cactus Rd.	Gate
K-15	GA 114 999	Across course road leading out of Ruth Range 50m E. of its intersection with Moore Rd.	Gate	K-43	GA 203 978	Across the northern boundary range road approx 20m N-W. of the old Hastings Range upper baseline.	Gate
K-16	GB 190 003	Across Rinehart Rd 130m W. of its intersection with Box Springs Rd.	Gate	K-44	GA 113 955	Across Moore Rd on the N. side of Carmouche Range maneuver box.	Gate
K-16A	GA 172 989	Across Rinehart Rd 20m S. of its intersection with the northern boundary range road.	Gate	K-45	GA 115 961	Across Moore Rd 300m S. of its intersection with the old Ware Range course road.	Gate
K-16B	GA 171 990	Across un-named trail 20m S. of its intersection with the northern boundary range road.	Gate	K-46	GA 119 979	Across Moore Rd 725m S. of its intersection with Americo Trail	Gate
K-17	GB 116 013	Across unnamed trail 15m E. of Moore Rd and 300m N. of Ruth Range tower.	Gate	K-47	GA 176 963	Across Turrentine Rd 1000m W. of mover 4 on Hastings Range	Gate
K-19	GB 121 023	Across unnamed trail 220m N-E. of Oscar Range Complex Road and 30m S of the northern boundary range road.	Gate	K-50	GA 195 988	Across Box Springs Rd 60m N. of its intersection with the northern boundary range road.	Cable
K-20	GB 141 021	Across unnamed trail 550m S of the northern boundary range road.	Cable	L-10	GA 110 918	North on Hourglass road from Buena Vista road. 175 meters past tank trail.	Gate
K-21	GB 136 027 (Proposed)	Across the northern boundary range road at Cox Creek bridge.	Gate	D-1	GA 098 878	On Hourglass road, 700 meters north of 1st Division Road	Gate
K-26	GA 201 949	Across Boundry Road 1800m S of its intersection with Turrentine Road	Gate	D-2	GA 122 887	On Underwood road approximately 900meters north of Underwood and Plymouth road intersection	Gate

Note: **Guard #1** will be placed at K10 Roadblock blocking traffic going East on Buena Vist Rd and adjacent Tank Trail. **Guard #2** will be placed on Buena Vista Rd at 1473 8957 blocking traffic going North West on Buena Vista Rd and adjacent Tank Trail. **Guard #3** will be placed on Hourglass Rd at the D1 roadblock blocking traffic going North on Hourglass Rd (OIC will coordinate with Mr Cribb on DMPCRC to allow personnel access to the DMPCRC control center). Guards will have communications with OIC. Barriers will be placed as follows: **Barrier #1** on Underwood Rd at 1283 8786; **Barrier #2** on un-named trail at 1408 8905; **Barrier #3** on un-named trail at 1457 8946.

COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK DMPRC/ LDCS AND .50 CALIBER LIVE FIRE	2a. DTG BEGIN	2b. DTG END	3. DATE PREPARED (YYYYMMDD) 2013 05 06
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4. PREPARED BY		
a. LAST NAME GONZALEZ	b. RANK Gunnery Sergeant	c. POSITION ASSAULT BREACHER VEHICLE PLATOON COMMANDER, FORT BENNING ARMOR SCHOOL

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?
M154(MICLIC) live fire	Rocket initiates, fails to leave rail, ignites main charge.	H	Lead instructor will immediately initiate jettison procedures. Ensure that all prefire checks are conducted	M	TM 08982A-14&P/2B, FM 20-32, FM 21-75, FM 5-101	ABV Platoon Commander ABV Platoon Sergeant	
	Rocket initiates, fails to leave rail, does not ignite main charge.	H	Lead instructor will conduct an immediate inspection of the rocket to ensure that the rocket is safe, and remove nose pin. Rocket will then be stowed and shut off.	M	Ensure that all prefire checks are conducted IAW TM 08982A-14&P/2B	ABV Platoon Commander ABV Platoon Sergeant	
Safety Standoff Distance	Personnel struck by flying debris or shrapnel	H	Increasing the minimum standoff distance of 800 meters IAW FM 5-32, to a standoff distance of 1600 meters	M	Safety brief from RSO Accountability of all personnel prior to detonation	RSO OIC Key Leaders	
	Improper DODICS	M	Class instructors will inspect all components of the charge to ensure proper DODICS	L	Visual inspection of all components once they arrive at the ammunition pad	ABV Platoon Commander ABV Platoon Sergeant	
Environmental	Wildlife	M	1. Brief students on various wildlife area 2. Avoid any contact with all wildlife 3. Brief students on protected habitat markings and signs.	L	Safety brief by RSO MCoE 350-19	RSO OIC Students	
	Fire caused by explosion	M	Notify local or closest fire department(s) to be on standby for possible brush or grass fires.	L	Have local fire departments on notice for possible fires.	ABV Platoon Commander ABV Platoon Sergeant RSO OIC	

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 MULLER	b. RANK LTCOL/USMC	c. DUTY POSITION COMMANDING OFFICER, MARINE CORPS DETACHMENT, FORT BENNING GA.	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?
Personal safety	cold weather injury	M	RSO, OIC, and class instructors will monitor changes in weather and make uniform changes as needed.	L	Ensure students have proper cold weather dress Keep heater on in emergency vehicle	RSO OIC Class instructors Students	
Movement to DMPRC	Vehicle roll over	M	Ensure drivers adhere to speed limits OIC will identify hazards during convoy safety brief Ground guides used in high risk areas	L	Convoy brief before movement Safety brief by RSO	RSO OIC Class instructors	
	Vehicle strikes another vehicle	M	1. VC's will ensure separation is maintained, and use of ground guides. 2. OIC will identify hazards and convoy speeds prior to and during transit.	L	Convoy brief before movement Safety brief by RSO, FM 21-60, TC 21-305, GTA 17-02-019	RSO OIC Class instructors	
	Falling from vehicle	M	All personnel will maintain 3 points of contact at all times when working around or on vehicles	L	Convoy brief before movement Safety brief by RSO	RSO OIC Class instructors	
Personal injury	Slips, trips, falls, exertion, struck by/ against and contact with or by	M	Students will maintain 3 points of contact with vehicle at all times when working at elevated heights. Use of proper lifting techniques				
			Hard hats and CVC helmets will be worn in the ammo staging area. Safety brief from RSO Class instructor supervision.	L	AR 385-10	All Leaders	
	Line Charge fails to detonate	M	Lead instructor will notify RSO and OIC of the misfire, and request EOD support for reduction of misfire.	L	Ensure that all prefire checks are conducted IAW TM 08982A-14&P/2B	ABV Platoon Commander ABV Platoon Sergeant	
M48 .50 caliber live fire shoot	An M2 with incorrect headspace and timing can kill or injure a Marine	H	Headspace and timing should be checked and adjusted before firing the weapon, after assembly of the weapon, and after replacing the barrel.	M	M2 TM 9-1005-213-10	RSO OIC Class instructors	
	A machine gun that has been in action but not cleared can kill or injure a Marine when they are in the way of muzzle	H	Clear the machine gun before anyone moves in front of the muzzle. Clearing consists of unloading the machine gun and visually inspecting weapon to ensure all rounds removed	M	Range SOP Clearing Procedures	RSO OIC Class instructors	
	Opening the cover of an M2 after use, while cook-off occurs could kill or injure a Marine.	H	Never open the cover of a hot weapon. Allow to cool down.	M	M2 TM 9-1005-213-10	RSO OIC Class instructors	

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?
	Placing fingers in the chamber of any weapon can cause injury.	M	Keep fingers of of the chamber area.	L	M2 TM 9-1005-213-10	RSO OIC Class instructors	
	An M2 with ammo or with bolt charged to the rear can kill or injure a Marine when the backplate is removed	H	Do not remove the backplate until the chamber is cleared. Place bolt in the forward position. Do not charge the weapon with the backplate removed. Stand to one side when removing	M	M2 TM 9-1005-213-10	RSO OIC Class instructors	
			backplate.				
	Attempting to lift the M2 by the backplate in the upright position can cause the assembly to slip and fall on a	M	When lifting the M2 by the backplate assembly, turn the weapon 90 degrees or hold by the main assembly only.	L	M2 TM 9-1005-213-10	RSO OIC Class instructors	
	Marine. This could also cause the buffer spring to release and injure a Marine.						
	Releasing the firing pin on an M2 with cocking lever forward could spring back forcibly and injure hand.	M	Do not attempt to release the firing pin with the cocking lever forward.	L	M2 TM 9-1005-213-10	RSO OIC Class instructors	
	Weapons malfunction during live fire.	M	Range Safety NCO qualified in weapons system instructing Marines using weapon.	L	M2 TM 9-1005-213-10	RSO OIC Class instructors	
	Marines smuggling brass and ammo off the range	M	All Marines briefed that they cannot take ammo/brass off the range. Instructors will conduct a shakedown prior to departing range.	L	MCoE Reg 350-19	RSO OIC Class instructors	

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?
Personal injury	Heat injury	H	Enusre that all Marines have appropriate water source, and access to a water supply at all times.	M	Range safety brief will identify location of water sources	RSO OIC Instructors Safety Officer	
	Heat Stroke	H	Ice sheets will be present on the range with instructions on how to use them.	M	Range safety brief will identify the location of and how to use the ices sheets	RSO OIC Instructors Safety Officer	
	Sunburn	M	The uniform will be worn as sleeves down, and cover will be worn as required. Sunblock will be provided to the students as well	L	Insturctors will ensure tha the Marines are in the proper uniform at all times on the range.	RSO OIC Instructors Safety Officer	



RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



Date Submitted: 10/22/2012

EMD Number: 1229607 **Project#:** Unknown **Project Title:** Linear demolitions charge deployment

Description of proposed action:

Conducting a live fire of two linear demolitions charges on the 5th of December. One assault breacher vehicle will pull up to the designated firing line and deploy two separate linear demolitions charges. After both charges have successfully been deployed, a range clean up will then take place and the range will be cleared. A MICLIC (mine clearing linear charge) is a 100 meter long linear explosive charge used to breach an enemy's minefield. It contains composition C-4 (5 pounds per linear foot), and is towed out by a MK22 MOD 4 dual nozzle rocket. The charge is designed to clear a path 14 meters wide by 90 meters long. It is equipped with a 62 meter inert arresting line to keep it tethered to the vehicle. Location of Live Fire: J143- MK22 MOD4 Rocket M193- Linear Demolition Charge System. This training will be conducted twice a fiscal year. 3 December, 2012 and we are currently looking at doing one in the June time frame of 2013. TYPE OF AMMUNITION: M193- Linear Demolition Charge System & J143- MK22 MOD4 Rocket

Project Location:

DMPRC

Amount, Description, Location of Disturbance/Digging:

None

Number of Personnel:

14

Type of Ammunition:

See project description
Live

Number/Types of Trees:

None

Size of Project Area:

Duration of Action: Start: 11/3/2012 Stop: 9/30/2013

Proponent: kenneth.l.krygier 706-626-7158

Organization/Unit: D Co. 3/81 MARCOR DET.

Number/Types of Vehicles:

Number of vehicles:1 Types of vehicles: Assault Breacher Vehicle
Yes-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, 2013 - PROVIDING NATURAL RESOURCES RCW'S COMMENT BELOW IS FOLLOWED FOR EACH TRAINING

Natural Resources RCW - BRAC Conditions:

Jonathan Neufeldt (706 544 7705), 10/31/2012

MICLIC training needs to stay in the cleared area on the DMPRC (north side of Buena Vista Rd.) as shown in attachment (photo.jpg) to this 144. Contact Jonathan Neufeldt at 706-544-7705 or Tim Marston at 706-544-7069 if MICLIC event location changes.

Cultural Resources - Archeological

None

Edward Howard (706 545 1898), 10/29/2012

Noise

Conditions:

Ellis Leeder (706 545 2400), 10/23/2012

Live MICLIC firing is limited to four firings a year for this 144r and any additional firing will require a new 144r to be submitted with possible noise contour computer modeling from USAPHC and funded by the requesting proponent. This is training operations that must be conducted. If there is any 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 no fly zones. 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 sites. 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

Signature John E Brown

John E Brown

NEPA Program Manager

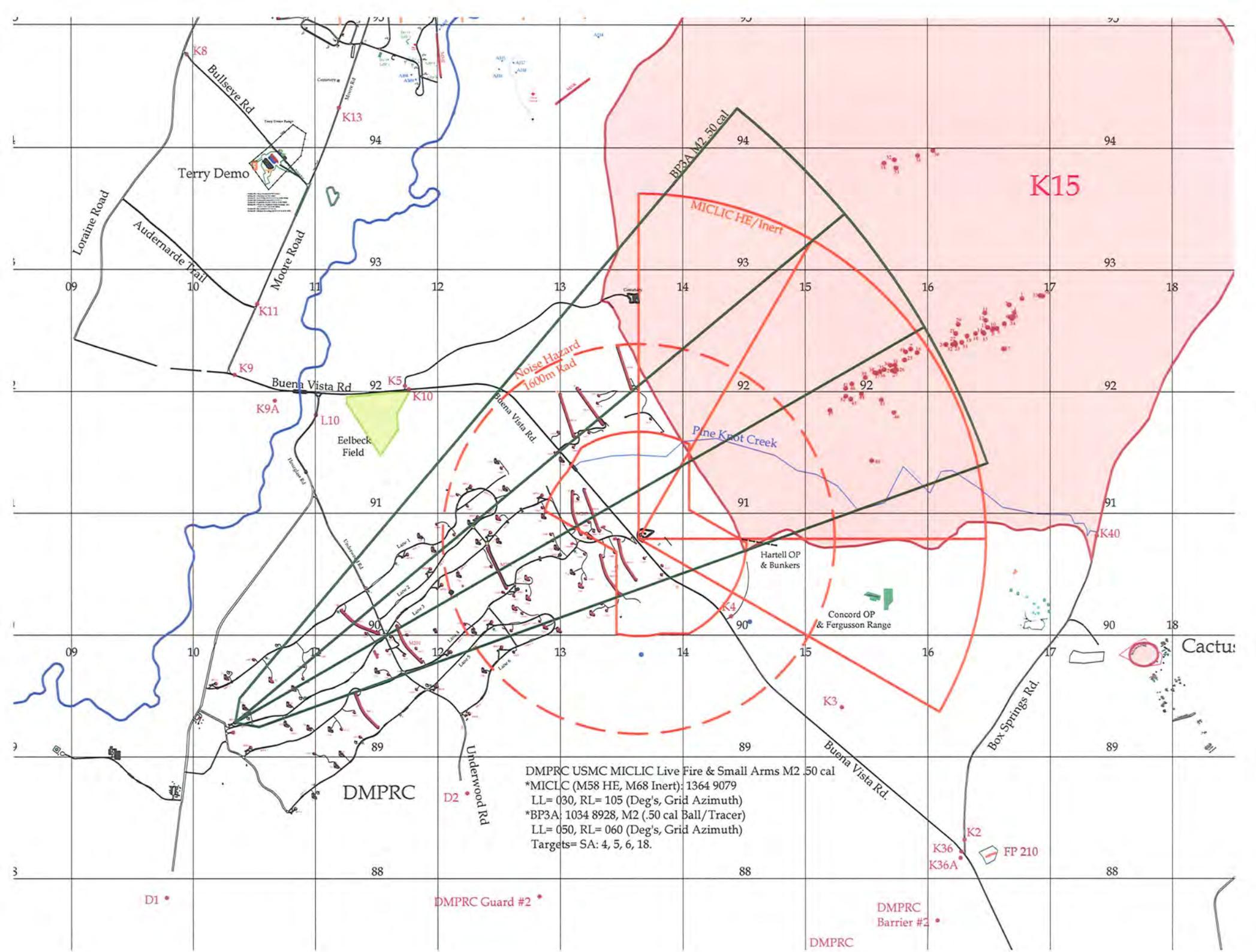
Date 31 OCT 2012

Signature Christopher E. Hamilton

Christopher E. Hamilton, PhD

EPMB Chief

Date 31 Oct 12



DMPRC USMC MICLIC Live Fire & Small Arms M2 .50 cal
 *MICLIC (M58 HE, M68 Inert): 1364 9079
 LL= 030, RL= 105 (Deg's, Grid Azimuth)
 *BP3A: 1034 8928, M2 (.50 cal Ball/Tracer)
 LL= 050, RL= 060 (Deg's, Grid Azimuth)
 Targets= SA: 4, 5, 6, 18.

K15

DMPRC

D1

DMPRC Guard #2

DMPRC Barrier #2

DMPRC

K36 K36A FP 210

Cactus

Hartell OP & Bunkers

Concord OP & Fergusson Range

Pine Knot Creek

Noise Hazard 1600m Rad

BP3A M2 .50 cal

MICLIC HE/Inert

Terry Demo

Eelbeck Field

Audemarde Trail

K9

K9A

L10

K5

K10

Underwood Rd

Buena Vista Rd.

Box Springs Rd.

Buena Vista Rd

Buena Vista Rd.

Lorraine Road

Moore Road

Bullseye Rd

K40

K2

K3

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