FIRING/NONFIRING DATA

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

Log# 7-1-13

TO: Chief, Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905	**Date:** 24 Jun 13 **Range:** DMPRC **Title:** BFV Gunnery **Problem No:**
THRU: Operations Range Division Fort Benning, GA 31905	**FROM:** S-3, 3rd BDE, 3rd ID Fort Benning, GA 31905

SECTION I, TYPE OF TRAINING

☑ a. Live Fire ☐ b. Non-live Fire CP/Controller Coordinates: GA 0986 8872 (Control Center)

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

Coordinates	Type	Model/DODAC	Size of Charges
See Weapon & Ammo List	See Weapon & Ammo List	See Weapon & Ammo List	See Weapon & Ammo List

SECTION III, WEAPONS/AMMUNITION REQUESTED

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
See Weapon & Ammo List	See Weapon & Ammo List	See Weapon & Ammo List	See Weapon & Ammo List	See Weapon & Ammo List

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:

Patrick K. Smith, SFC, USA BDE MG

Name/rank of Major Unit S3/Commander:

Alexis E. Rivera, Maj, AR BDE S-3

SECTION VI, FOR RANGE DIVISION USE

DATE: 28 August 2013

TO: 3rd BDE 3ID Fort Benning, Ga 31905	**FROM: Range Division,** **Directorate of Plans, Training,** **Mobilization and Security** **Fort Benning, GA 31905**

a. Roadblocks to be closed:

b. Road(s) to be closed/road barrier locations:

c. Remarks:

d. This approval expires: Indef

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

Brad S. Tank

DMPRC, 3rd BDE, 3rd ID BFV Gunnery (Log #7-1-13) Weapons/Ammo List Enclosure			Page 1 of 3	
Firing Positions	**Weapons**	**Ammunition**	**Left Limit, Mils Grid Azimuth**	**Right limit, Mils Grid Azimuth**
BP 1A: 1019 8960	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	1010 0890	1495 1560
BP1B: 1175 9066	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0700 0525	1505 1470
BP 1C: 1227 9122	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0780 0760	1320 1330
BP 2B: 1194 9054	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0535 0535	1370 1230
BP 2C: 1233 9097	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0450 0450	1165 1010
BP 3A: 1034 8928	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0775 0485	1415 1300
BP 3B: 1203 9041	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0475 0315	1385 1295
BP 3C: 1243 9084	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0470 0405	1225 1380
BP 3D: 1285 9115	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0180 0180	1110 0720
BP 4A: 1047 8908	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0590 0590	1270 1300
BP 4B: 1211 8986	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0345 0345	1285 1265
BP 4C: 1266 9038	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0520 0520	1435 1380
BP 4D: 1300 9066	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0200 0200	1025 1090

DMPRC, 3rd BDE, 3rd ID BFV Gunnery (Log #7-1-13) Weapons/Ammo List Enclosure Page 2 of 3				
Firing Positions	**Weapons**	**Ammunition**	**Left Limit, Mils Grid Azimuth**	**Right limit, Mils Grid Azimuth**
BP 5A: 1084 8858	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0385 0325	0810 1080
BP 5B: 1199 8958	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0615 0425	1175 1175
BP 5C: 1244 9011	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0435 0355	1325 1320
BP 6B: 1226 8936	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0430 0305	0965 0855
BP 6C: 1252 8990	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0375 0285	1260 1260
MB 1-1: Start 1020 8957 to Stop 1032 8962	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0785 0610	1355 1495
MB 1-2: Start 1174 9070 to Stop 1202 9076	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0650 0350	1345 1390
MB 1-3: Start 1231 9119 to Stop 1247 9112	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0455 0195	1300 1280
MB 2-1: Start 1197 9053 to Stop 1206 9066	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0585 0430	1300 1410
MB 2-2: Start 1247 9112 to Stop 1235 9095	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0515 0195	1215 1080
MB 3-1: Start 1035 8925 to Stop 1060 8933	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0630 0630	1265 1235
MB 3-2: Start 1202 9047 to Stop 1231 9066	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0495 0410	1420 1420
MB 3-3: Start 1246 9082 to Stop 1268 9103	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0330 0330	1340 1340

DMPRC, 3rd BDE, 3rd ID BFV Gunnery (Log #7-1-13) Weapons/Ammo List Enclosure			Page 3 of 3	
Firing Positions	**Weapons**	**Ammunition**	**Left Limit, Mils Grid Azimuth**	**Right limit, Mils Grid Azimuth**
MB 4-1: Start 1048 8905 to Stop 1067 8901	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0615 0430	1265 1270
MB 4-2: Start 1209 8989 to Stop 1233 9012	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0410 0340	1235 1295
MB 4-3: Start 1263 9043 to Stop 1275 9059	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0235 0275	1205 1380
MB 5-1: Start 1082 8860 to Stop 1108 8881	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0435 0355	0830 1215
MB 5-2: Start 1215 8977 to Stop 1239 9003	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0365 0415	1265 1225
MB 5-3: Start 1247 9008 to Stop 1286 9017	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0240 0295	1280 1235
MB 6-1: Start 1225 8939 to Stop 1239 8953	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0400 0295	1000 0905
MB 6-2: Start 1260 8988 to Stop 1283 8998	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	0225 0400	1215 1305

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

03 August 2012

MEMORANDUM FOR Commander, 3/1 Cavalry Squadron, Attn: SSG Nicholas McKearn, Fort Benning, GA 31905

SUBJECT: 3/1 CAV DMPRC Crew Gunnery Concept and Safety Review

1. References:

a. 3/1 CAV DMPRC Crew Gunnery Concept, 23 July 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. Document received on 23 July 2012.

3. CONCUR w/comment.

a. CRMW. Recommend that you address up loading and down loading of ammunition.

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 Safety
Fort Benning Safety Office

DEPARTMENT OF THE ARMY
3RD SQUADRON, 1ST U.S. CAVALRY REGIMENT
3RD BRIGADE, 3RD INFANTRY DIVISION
FORT BENNING, GEORGIA 31905

AFZP-VIB-CDR-S3 16 August 2012

MEMORANDUM FOR Chief, Range Operations, Directorate of Plans, Training and Mobilization.

SUBJECT: Stabilized Gunnery on the Digital Multi Purpose Range Complex

1. PURPOSE: To establish a Concept of Operations for Bradley Live Fire on the DMPRC.

2. APPLICABILITY: This memorandum applies to all 3-1 CAV, 3ID units/activities using Bradley Fighting Vehicles on the DMPRC. All Officers in Charge (OIC), Non-Commission Officers in Charge (NCOIC) and Range Safety Officers (RSO) will be familiar with the contents of this memorandum and all other applicable references.

3. REFERENCES:

A. Army Regulation 385-63, Range Safety
B. DA PAM 385-63, Range Safety
C. Army Regulation 350-1, Army Training and Leader Development
D. MCoE Regulation 350-19, Range and Terrain Regulation
E. FM 3-23.30, Grenades and Pyrotechnic Signals
F. TM 9-1300-206, Ammunition and Explosives Standards
G. FM 3-20.21 HBCT Gunnery Manual
H. FM 3-21.71 Mechanized Infantry Platoon and Squad (Bradley)

4. The following Live Fire Exercise (LFX) outlines the scenario for 3-1 CAV Crew Gunnery. They will apply to the following weapon systems:
a. 25MM M242 Chain Gun
b. 7.62MM M240 Machine Gun

5. Execution:
A. 3-1 CAV will conduct live fire exercise in accordance with FM 3-20.21, Chapter 16, Stabilized Gunnery Tables II-VI, depending on the available resources and time allotted for the training event. These are crew qualification tables with the firing vehicle firing engagements in either stationary or moving posture with single and multiple targets (See Target List). This will be outlined by the Minimum Proficiency Levels, (MPL), and table development standards outlined in Chapter 16. Gunnery Tables II-VI will be conducted on Digital Multi Purpose Range Complex, DMPRC, with only one vehicle firing the course at any given time on any lane on the DMPRC (See Target List). Range Cadre/ Master Gunner will ensure that each soldier/ crew are aware of their left and right limits and do's and don'ts while on the range, which will be done through the means of a

detailed safety brief. After crews receive their briefing, they will complete and turn in their pre-fire checklist to the ammunition supply point in order to receive their ammunition. The Ammunition Supply Point will be located at range designated Ammo Holding Area, (AHA). Each crew drawing ammunition will not lock and load any weapon systems until they reach their first engagement area.

B. Units will utilize the "crawl-walk-run" methodology for all training. Leaders will conduct a risk assessment to outline all safety consideration, range fans, target scenarios, and sequence of events. Tables II day and night will be a dry-fire table and will give the Master Gunner, Safeties and Range Cadres an opportunity to ensure crews follow proper muzzle awareness before validating their ability to safely conduct Tables III, IV, 34, V and VI (live-fires tables) day and night. An additional control measure that the Squadron Commander, S-3 and Master gunner will take, will be to ensure that crews conduct GT II as many times as necessary as a confidence builder and as confirmation that crews are ready to fire live rounds.

C. The Master Gunner and Range Cadre will identify the designated start point and give specifics to all crews during the Initial Brief. Crews will be instructed to take all commands from the DMPRC Operations Center. Weapons utilized will remain cleared and unloaded until told by the DMPRC Operations Center. The first crew will then move to any lane they choose to start their live-fire exercise. Safeties will ensure weapons with rounds are always oriented downrange. The first crew will identify the left and right range limits and will be presented with targets so that they can confirm their zero when shooting live rounds. Targets presented for zeroing and gunnery will be selected from the Target List. Weapons will remain on electrical and manual safe when not engaging targets. At the end of each firing phase each crew will clear all weapon systems, place their weapons on electrical and manual safe, continue down range along the course road and then proceed towards the DMPRC Operations Center with all weapons pointing up and downrange. Once at the designated clearing point the vehicle commander will ensure that the required initials are submitted to the DMPRC Operations Center before that vehicle is cleared to move off the lane (See sketch).

D. All firing tables will be similar with the exception of one or two target changes to facilitate the various weapon systems, so that the minimum proficiency level (MPL) and Gunnery SOP requirements are met (See target list). All Qualification tables will be different from the practice tables (See target list). This is so that we can ensure that crews are challenged and are graded IAW 3-20.21 (HBCT Manual). The difference between the practice and qualification tables that were made mention of previously will be target types, target locations and target ranges. The flow of the range will be simple and smooth and will facilitate the layout of the range. Firing points (FP) and Maneuver boxes (MB) will be used and clearly marked so that they are easily identifiable by the crews during both the day and night phases (SEE TARGET LIST).

E. At the completion of each firing table, crew will first clear their weapons and then move along the course road and towards the DMPRC Operations Center to the designated clearing point where they will conduct a consolidated shake down prior to conducting their AAR (See sketch). Once the live fire exercise is complete, the Master Gunner and Range Cadre will conduct a consolidated shake down for brass and ammo and a final AAR at the Briefing Point. All remaining crews will follow the same procedures listed above.

F. After completion of the life fire exercise, the occupying unit will conduct an extensive clean up of the range. All equipment and trash brought to the range will be removed, and the proper closing codes will be obtained from range control. Any

unexploded ordinance that is found will be marked and immediately reported to EOD and Range Control.

6. SCHEDULING: Each unit / activity scheduling the DMPRC will prepare and submit the following documents to Range Operations, DPTM:

A. DA Form 7566, Risk Management Worksheet and Daily Risk Assessment

B. FB Form 350-19-1-E-R, scenario, sketches, FB Form 144, and any specific enclosures as required.

C. Training guidelines: All training will be conducted IAW this memorandum, applicable references listed in paragraph 3, and FB 350-19-1-E-R. Units are responsible for developing and submitting a new range packet if requested training deviates from approved range packets.

D. Units will use the Range Facility Management and Scheduling System (RFMSS) when scheduling.

7. ADMINISTRATIVE:

A. The training unit shall clear the range in accordance with local policies and procedures established with Range Control. Units will be required to clean all buildings occupied during the training event. This will require that the unit supply the following: brooms, mops, buckets, and appropriate cleaning supplies.

B. All range fires will be suppressed and reported to Range Control IAW MCOE Regulation 350-19.

8. REQUIREMENTS: A specific operation 350-19-1-E-R / scenario package will be prepared by the units for the DMPRC and approved by Chief, Range Division. All supporting documents, i.e. regulations, field manuals, TMs, etc. with an approved 350-19-1-E-R / scenario package will be onsite. All visiting personnel will also be directly controlled by the OIC / NCOIC. Prior to training, all personnel will be given range orientation / safety briefing, to include location of dud areas, medical procedures, loading and clearing weapons, misfire procedures, emergency cease fire signals, etc. Only weapons / ammo listed on the approved FB Form 350-19-1-E-R / scenario package will be allowed on the range. Prior to and after training, an ammo / weapons check will be made to ensure no individual or vehicle has any unauthorized ammo/ weapons. Prior to vacating the range, using unit will ensure the range is cleared of all refuse generated. (i.e. pallets, ammo boxes and food packaging)

9. MEDICAL: Medical personnel and equipment on site will be IAW unit SOP and risk management worksheet risk level for the training conducted. MEDEVAC will be IAW MCOE Regulation 350-19. All incidents will be reported to Brigade HQ and Range Control.

10. VEHICLE CONTROL: POV and wheeled military vehicle parking is located in the vicinity of DMPRC Operations building. (Located Vic GA 098 887)

11. AMMO POINTS:

A. There will be an ammo point. No open flames will be allowed within 50 feet and two 10lb bicarbonate fire extinguishers will be available at all times at the ammunition point. Ammunition Non-Commissioned Officer will control issue of live ammunition and monitor at all times. All ammunition will be issued and turned in to the Ammunition

NCO and logged. Ammo NCO will be Ammo Handler certified. Ammunition will be seperated at all times by DODIC.

12. OPENING OF RANGE: Tasks for opening the range and occupying the site.

A. The unit will have in it's posession the approved 350-19-1-E-R, overlays, Approved RFMSS Request summary, this concept document, and Unit risk assesment worksheet before occupation of the DMPRC. The OIC will call in to range control and request permission to occupy the range complex for which the unit is scheduled. Appropriate overlays will be posted upon arrival, the OIC and RSO will receive a briefing from the range site supervisor and WTAsupport contractor.

B. The unit will draw appropriate communication security (COMSEC), and ensure that all Force XXI Battle Command Brigade and Below (FBCB2) equipped platforms are configured properly, the correct COMSEC has been loaded and the vehicle has achieved connectivity to the Range Operations Center (ROC)

C. The Unit Master Gunner or representative will verify that the scenario data at the range complex is correct. They will also provide a final battle roster and firing order.

D. Vehicles will move to the designated vehicle instrumentation area adjacent with Range operations center on Hour Glass Road. The Instrumentation Specialists will install and test all instrumentation and other equipment that needs to be attached to the participating platforms/ personnel. To prevent injury or damage to equipment, at no time, are unit personnel to install, remove, adjust or otherwise tamper with the Instrumentation or video devices on the vehicle. If a piece should fail to function, the instrumentation on the vehicle must be checked out by qualified range personnel. Once a piece of equipment is installed on a unit, it becomes virtually 'tied' to that unit for the duration of the run or until it is removed by range personnel.

E. The Crew Evaluators will receive orientation training on the Crew Evaluator Workstation (CEWS) and instrumented after action review (IAAR) systems. They will also have the opportunity to assign user-defined events to certain keys on the execution control (EXCON) or system control (SYSCON) workstation keypad. Any scenario action can be a user-defined event. This is also where the Unit IAAR templates can be refined for the training table.

F. Unit will proof the range before firing.

G. The Unit Master Gunner or ammunition NCOIC will coordinate with the DMPRC target personnel for the sub-hand receipting of all pyrotechnic battlefield effects simulators M30, M31 devices. The DMPRC target personnel will draw the pyrotechnics, go down range, load the battlefield effects simulator (BES) devices and upon return from down range turn-in any residue or spare devices to the ammo NCOIC.

H. This will occur twice daily at a minimum, prior to, and after both mandatory Shutdown periods.The unit leadership must assign personnel to perform special duties such as road guards and fire fighting details IAW this memo, approved 350-19-1-E-R guard listing and applicable Fort Benning regulations.

13. CONDUCT OF EXERCISE: Tasks for conducting exercise follow:

A. The OIC:

(1) Controls exercise and ensures Vehicles will only fire at approved 350-19-1-E-R target listing.

(2) Maintains efficient throughput

(3) Maintains required communications

(4) Calls Cease Fire, notifies higher HQ and Range Operations of any incident

B. The NCOIC:

(1) Supervises all details
(2). Controls the movement of vehicles and personnel

C. The weapons system-certified Safety Officer or Safety NCO

(1). Ensures that the crew handles misfires IAW safety regulations.
(2) Observes for any safety violations
(3) Ensures Weapons Systems Remain down range at all times while negotiating the range
(4) Clears each firing vehicle at end of each exercise in designated area ensuring that weapon systems are oriented in a safe direction down range during clearing process
(5) Ensures Vehicles will only fire at approved 350-19-1-E-R target listing.

D. The Master Gunner:

(1) Ensures the range adheres to the appropriate gunnery table
(2) Ensures that crews boresight and zero correctly
(3) Conducts onsite remedial training as needed
(4) Supervises Vehicle Crew Evaluator
(5) Helps safety personnel clear weapons when required
(6) Helps maintenance personnel identify and correct malfunctions
(7) Helps Commander determine and verify alibi conditions
(8) Ensures Vehicles will only fire at approved 350-19-1-E-R target listing.

14. CLOSURE OF THE RANGE:

A. The OIC:

(1) Notifies range control that firing has terminated
(2) Debriefs unit personnel
(3) Ensures vehicle crews adhere to approved task matrix/ scenerio during firing event
(4) Ensures clearing of the range and training areas follows local regulations and SOP

B. The NCOIC:

(1) Supervises ammunition and target details
(2) Ensures range facilities have been policed

C. The Master Gunner:

(1) Updates DA Form 2408-4 for each vehicle

D. The ammuntion NCOIC:

(1) Ensures that only authorized personnel remove munitions from range.
(2) Prepares residue certificates required by ammunition supply point

15. Safety:

A. During Gunnery operations all vehicles will maintain communications with Range Operations Center (Tower) at all times. If communications goes down all Movements and engagements will cease fire freeze until communications is restored.

B. All commands come from the DMPRC Operations Center.

C. All engagements will be cleared and authorized by tower personnel.

D. Vehicles will only fire at approved 350-19-1-E-R target listing.

E. If a malfunction occurs, all operations will cease fire freeze and the malfunction will be attempted to be fixed, if assistance is needed the Master Gunner will be notified via radio communications. The Master Gunner will notify OIC if required to go to vehicle location to assist.

F. Vehicles that are running the course will be given weapon control status from the Tower and maintain weapons systems downrange until cleared by the Range Safety Officer.

G. The emergency cease fire signal and E-911 medical evacuation procedures will be briefed during the range safety brief.

H. A Field Litter Ambulance with qualified medics will be present through the duration of the gunnery.

I. All vehicles be cleared onto and off execution line by Range Safety Officer or Master Gunner.

J. LASER's: Laser Warning Signs will be in place prior to opening the range. Range safety briefing will include hazards using Lasers and NVD's.

K. 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.

L. Incident: When an incident occurs on the range, regardless of injury or not, the OIC/RSO will immediately call a cease fire and report it to Range Control and the using unit's higher headquarters. OIC/RSO will take action as directed by Range Control. The cease fire will remain in effect until the problem is resolved and cleared through Range Control. If the incident results in an injury, the OIC/RSO will use the procedures outlined in the medical paragraph. The following information will be furnished by the OIC/RSO to Range Control:

a. Designation of unit.
b. Range and location
c. Type of weapon involved.
d. Type of ammunition involved.
e. Brief summary of what happened.
f. Personnel injuries and extent.
g. Full Name, SS#, Rank and unit of injured personnel.
h. Extent of property damage.
i. Intentions regarding an AR 15-6 investigation.

M. Medical: In the event of an accident, injury or illness, the OIC/RSO will

immediately call a cease fire then call 911 using the standard 9 Line MEDEVAC to determine what type of evacuation is the most appropriate for the injury (loss of life, 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.

N. 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 from the range.

O. 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.

14. The point of contact for this action is SSG McKearn, 3-1 CAV Squadron Master Gunner.

LAURENCE J CHRISTIAN
MAJ, AR
SQDN S3

ENC 1

WEAPONS SAFETY AND CONTROL STATUS

1 Ammunition Status	
Item	
RED	Rounds loaded / Magazine Loaded
Yellow	Magazine loaded, chamber clear
Green	Magazine out, chamber clear
2 Weapons Control Status	
Item	
HOLD	Engage only if engaged (threat) or ordered to do so. Must have positive ID

TIGHT	Can engage if target is positively identified as enemy
FREE	Can engage unless target is positively identified as friendly

*****Do not carry weapons on anything but safe - you will transition only when prepared to fire**

ENC 1

	Weapons Safety Posture		
Weapon Type	**GREEN**	**AMBER**	**RED**
M9	Weapon cleared and on safe; magazine out of weapon	Magazine in weapon; no round in chamber; weapon on safe	Magazine in weapon; round chambered; weapon on safe
M16	Weapon cleared and on safe; magazine out of weapon	Magazine in weapon; no round in chamber; weapon on safe	Magazine in weapon; round chambered; weapon on safe
M203	Weapon cleared and on safe; rounds carried	No round in the chamber; weapon on safe; ammo ready	Round chambered; weapon on safe
M249	Weapon cleared and on safe; ammo carried	Half cocked – bolt forward; weapon on safe, rounds in tray; no rounds in chamber	Weapon charged – open bolt position; ammo in feed tray; weapon on safe
M240/ M240B	Weapon cleared and on safe; ammo carried	Bolt forward; weapon on safe, rounds in tray, no rounds in chamber	Weapon charged – open bolt position; ammo in feed tray; weapon on safe
M60	Weapon cleared and on safe; ammo carried	Bolt forward; weapon on safe, rounds in tray; no rounds in chamber	Weapon charged – open bolt position; ammo in feed tray; weapon on safe
M2	Weapon cleared and on safe; ammo carried	Bolt forward; weapon on safe, rounds in tray; no rounds in chamber	Weapon charged; round in chamber; weapon on safe
MK19	Weapon cleared and on safe; ammo carried	Weapon on safe; no round in chamber; ammo in feed tray	Round on face of bolt; weapon on safe; charged open bolt position
TOW	No missile in tube; launcher in stowed position	Missile in tube; launcher in stowed position, system on electric safe	Missile in tube; launcher raised; system on electric safe
25mm	Weapon cleared and on electrical and mechanical safe; ammo stowed	Round in feeder; no ghost rounds cycled; electrical and mechanical safe	Ghost round cycled; electrical and mechanical safe
120mm	Breech closed; no round in tube; system on electrical and mechanical safe	Breech opened; system on electrical and mechanical safe; rounds stowed	Gun tube loaded; weapon on electrical and mechanical safe

ENC 1
WEAPONS SAFETY AND CONTROL STATUS

1 Ammunition Status	
Item	
RED	Rounds loaded / Magazine Loaded
Yellow	Magazine loaded, chamber clear
Green	Magazine out, chamber clear
2 Weapons Control Status	
Item	
HOLD	Engage only if engaged (threat) or ordered to do so. Must have positive ID
TIGHT	Can engage if target is positively identified as enemy
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*****Do not carry weapons on anything but safe - you will transition only when prepared to fire**

DMPRC, 3rd BDE, 3rd ID BFV Gunnery (Log #7-1-13) Target List Enclosure			Page 1 of 3
Firing Positions	**Weapons**	**Ammunition**	**Targets**
BP 1A: 1019 8960	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 5, 6, 7, 8, 9, 11, 12, 17, 47. M: 101, 201. (7.62mm) T: 1, 9. SA: 4 - 6, 47.
BP1B: 1175 9066	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 23, 25, 27, 29, 32, 36, 37, 40, 43, 46, 48, 49, 53, 54, 55, 56, 57, 59, 61, 64. M: 102, 103, 104, 203, 204. (7.62mm) T: 14, 26, 30, 38, 52, 54. SA: 25, 27, 29, 64.
BP 1C: 1227 9122	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 23, 36, 46, 54, 55, 56, 57, 59, 61. (7.62mm) T: 33, 39. SA: 23, 36, 46, 56. M: Right 1/2 M102
BP 2B: 1194 9054	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 23, 25, 27, 32, 36, 37, 40, 43, 46, 48, 49, 53, 54, 55, 56, 57, 59, 61. M: 102, 103, 104, 203, 204. (7.62mm) T: 14, 26, 30, 52, 53. SA: 25, 27.
BP 2C: 1233 9097	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 23, 36, 46, 54, 55, 56, 57, 59, 61. M: 102, 103, 104. (7.62mm) T: 14, 33. SA: 23, 36, 46, 56.
BP 3A: 1034 8928	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 17, 18. M: 101, 201. (7.62mm) T: 1, 8, 10, 36. SA: 4, 5, 6, 18.
BP 3B: 1203 9041	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 23, 32, 36, 37, 40, 41, 43, 46, 48, 49, 53, 54, 55, 56, 57, 58, 61. M: 102, 103, 104, 203, 204. (7.62mm) T: 14, 16, 26, 29, 30, 31, 52, 53. SA: 27, 32, 40, 58. M: Left 1/2 M202.
BP 3C: 1243 9084	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 36, 37, 46, 53, 54, 55, 56, 57, 59, 61. M: 102, 103, 104. (7.62mm) T: 29, 30, 33. SA: 36, 37, 53. M: Left 1/2 M203 & Left 1/2 M204.
BP 3D: 1285 9115	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 36, 46, 54, 55, 56, 57, 59, 61. M: 102, 103, 104. (7.62mm) T: 33. SA: 36, 46, 54, 56, 57, 61. M: 102, 103.
BP 4A: 1047 8908	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 17, 21, 63. M: 101, 201. (7.62mm) T: 4, 8, 13, 36. SA: 4, 5, 6, 21, 63. M: Left 1/2 M301.
BP 4B: 1211 8986	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 21, 22, 28, 30, 32, 33, 34, 36, 38, 37, 40, 41, 42, 43, 44, 46, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 65. M: 102, 103, 104, 202, 203, 204, 302, 303. (7.62mm) T: 20, 22, 24, 28, 52. SA: 222, 28, 30, 33, 58, 60, 65. M: 202.
BP 4C: 1266 9038	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 21, 32, 38, 40, 41, 43, 44, 48, 49, 50, 53. M: 203, 204, Left 1/2 M302 & Left 1/2 M303. (7.62mm) T: 22, 31, 32, 37. SA: 21, 32, 40, 41, 43, 44, 48, 49, 53. M: 203, 204, Left 1/2 M303.
BP 4D: 1300 9066	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 43, 48, 49, 53. M: 203, 204. (7.62mm) T: 37. SA: 43, 48, 49, 53. M 203, 204.

Firing Positions	Weapons	Ammunition	Targets
BP 5A: 1084 8858	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 1, 7, 8, 9, 10, 11, 12, 13, 17, 63. M: 201, 301. (7.62mm) T: 5, 6, 11, 15. SA: 1, 13, 62, 63. M: 301.
BP 5B: 1199 8958	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 21, 22, 28, 32, 33, 34, 35, 38, 40, 41, 42, 43, 44, 48, 49, 50, 52, 53, 60, 65. M: 203, 204, 302, 303. (7.62mm) T: 19, 20, 24. SA: 22, 26, 28, 30, 33, 60, 65.
BP 5C: 1244 9011	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 21, 32, 33, 38, 40, 41, 42, 43, 44, 48, 49, 50, 52, 53, 60. M: 203, 204, 303, Left 3/4 M302. (7.62mm) T: 22, 24, 28, 29, 31, 32, 34. SA: 28, 32, 33, 40, 41, 42, 60.
BP 6B: 1226 8936	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 21, 22, 26, 32, 34, 35, 38, 40, 41, 42, 43, 44, 48, 49, 50, 52, 53, 60, 65. M: 203, 204, 302, 303. (7.62mm) T: 19, 24, 25, 40. SA: 22, 26, 60, 65.
BP 6C: 1252 8990	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 21, 22, 32, 34, 35, 38, 40, 41, 42, 43, 44, 48, 49, 50, 52, 53, 54, 55, 57, 60, 65. M: 104, 203, 204, 302, 303. (7.62mm) T: 19, 22, 24, 28, 31, 32, 34, 35. SA: 22, 32, 34, 35, 42, 60, 65.
MB 1-1: Start 1020 8957 to Stop 1032 8962	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 6, 7, 11, 12, 47, (SA5 from start only). M: 101. (7.62mm) T: (1, 9, both from start only). SA: 5, 6, 47, (SA4 from start only).
MB 1-2: Start 1174 9070 to Stop 1202 9076	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 23, 25, 27, 36, 37, 46, 53, 54, 55, 56, 57, 59, 61, (SA: 29, 64, both from start only). M: 102, 103, 104. (7.62mm) T: 14, 29, 30, 39, 53, (T: 38 from strat only). SA: 23, 25, 27, 29, 37, (SA: 64 from strat only).
MB 1-3: Start 1231 9119 to Stop 1247 9112	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 36, 46, 54, 55, 56, 57, 59, 61, (SA23 from start only). M: 102, 103, 104. (7.62mm) T: 33, (T39 from start only, T14 from stop only). SA: 23, 36, 46, 56, 57. M:102.
MB 2-1: Start 1197 9053 to Stop 1206 9066	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 23, 36, 37, 46, 53, 54, 55, 56, 57, 59, 61. M: 102, 103, 104, Left 1/2 M203, Left 1/2 M204. (7.62mm)T: 14, 26, 29, 30, 39, 52. SA: 23, 25, 27, 37, 40.
MB 2-2: Start 1247 9112 to Stop 1235 9095	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 36, 46, 54, 55, 56, 57, 59, 61. M: 102, 103, 104. (7.62mm) T: 14, 33. SA: 36, 46, 56, 57, (SA23 from start only). M: 102.
MB 3-1: Start 1035 8925 to Stop 1060 8933	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 3, 4, 5, 6, 7, 8, 9, 11, 12, 17, 47, (SA18 from start only). M: 101, 102. (7.62mm) T: 8, 12, 36, (T1 from start only). SA: 4, 5, 6, (SA18 from start only).
MB 3-2: Start 1202 9047 to Stop 1231 9066	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 32, 36, 37, 40, 43, 46, 48, 49, 53, 54, 55, 56, 57, 59, 61. M: 102, 103, 104, 203, 204. (7.62mm) T: 14, 29, 30, 52, (T: 26, 31, 53 all 3 from start only). SA: 32, 37, 40, 43, 48, 49, 53, (SA58 from start only.
MB 3-3: Start 1246 9082 to Stop 1268 9103	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 36, 46, 54, 55, 56, 57, 59, 61, (SA: 37, 53 both from start only). M102, 103, 104, (left 1/2 M203, left 1/2 M204 both from start only). (7.62mm) T: 33, (T29 From start only). SA: 36, 46, 56, 57, (SA: 37, 53 both from start only). M: 102, (M: left 1/2 203, left 1/2 204 both from start only).

Firing Positions	Weapons	Ammunition	Targets
MB 4-1: Start 1048 8905 to Stop 1067 8901	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 3, 7, 8, 9, 11, 12, 17, 21, 63. M: 201 (right 1/2 M101, left 1/2 M301). (7.62mm) T: 4, 13, (T: 8, 36 both from start only). SA: 6, 21, 63, (SA: 4, 5 both from start only). M: 301 left 1/2 only.
MB 4-2: Start 1209 8989 to Stop 1233 9012	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 21, 28, 32, 33, 36, 37, 40, 41, 42, 43, 44, 46, 48, 49, 50, 53, 54, 55, 56, 57, 59, 61, (SA: 30, 56, 58, 60 all 4 from start only). M: 103, 104, 203, 204 (left 1/2 M102, left 1/2 M303). (7.62mm) T: 22, 24, 28, 31, 32, 34, (T: 20 from start only). SA: 28, 32, 33, 40, 42, (SA: 30, 58, 60 all 3 from start only). M: right 1/2 M202.
MB 4-3: Start 1263 9043 to Stop 1275 9059	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 32, 36, 37, 40, 43, 46, 48, 49, 53, 54, 55, 57, 59, 61, (SA41 from start only). M: 103, 104, 203, 204, (right 1/2 M102). (7.62mm) T: 29, 31, 33, 37, (T22 from start only). SA: 32, 40, 43, 48, 49, 53, (SA: 41, 44 both from start only). M: 203, 204.
MB 5-1: Start 1082 8860 to Stop 1108 8881	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 1, 3, 8, 9, 10, 11, 12, 17, (SA: 13, 63 both from start only). M: 201, (right 1/2 M301 from start only). (7.62mm) T: 5, 6, 12, (T: 11, 15 both from start only). SA: 1, 63, (SA: 13, 62 both from start only). M: 301.
MB 5-2: Start 1215 8977 to Stop 1239 9003	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 21, 28, 32, 33, 36, 37, 38, 40, 41, 42, 43, 44, 46, 48, 49, 50, 53, 54, 55, 56, 57, 59, 60, 61, (SA: 22, 65 both from start only). M: 103, 104, 203, 204, 303, (left 1/2 M302). (7.62mm T: 22, 24, 28, 31, 32, 34, (T: 19, 20 both from start only). SA: 28, 32, 33, 40, 42, 60, (SA: 22, 65 both from start only).
MB 5-3: Start 1247 9008 to Stop 1286 9017	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 21, 38, 41, 42, 43, 44, 48, 49, 50, 53, 54, 55, 57, 59, 61, (SA: 32, 33, 40, 60 all 4 from start only). M: 104, 203, 204, 303, (left 1/2 M302). (7.62mm) T: 32, 34, 37, (T: 22, 24, 28, 31 all 4 from start only). SA: 21, 41, 42, 43, 44, 48, 49, 50, 53, (SA: 32, 33, 40 all 3 from start only). M: 303, (left 1/2 M302).
MB 6-1: Start 1225 8939 to Stop 1239 8953	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 21, 22, 26, 32, 34, 35, 38, 41, 42, 43, 44, 48, 49, 50, 52, 53, 60, 65. M: 203, 204, 302, 303. (7.62mm) T: 19, 22, 24, 25, 28, (T40 from start only). SA: 22, 26, 33, 60, 65.
MB 6-2: Start 1260 8988 to Stop 1283 8998	BFV M240C	25mm M793, M910 7.62mm Ball/Tracer	(25mm) SA: 21, 34, 35, 38, 41, 42, 43, 44, 48, 49, 50, 52, 53, (SA22 from start only). M: 203, 204, 302, 303. (7.62mm) T: 19, 25, 32, 34, 35, 37. SA: 21, 34, 35, 41, 42, 43, 44, (SA22 from start only). M: 302, 303.

10
11
8
Lane 1
Lane 3
Lane 4
Lane 5
DMPRC Ammo Point
DMPRC Control Center
Hourglass Rd
Designated Clearing Point
DMPRC 31 CAV
Crew Gunnery

RECORD OF ENVIRONMENTAL CONSIDERATION (REC)

Date Submitted: 8/14/2013

EMD Number: 1322606 **Project#:** Unknown **Project Title:** Bradley Live Fire Exercise

Description of proposed action:

Bradley Gunnery Tables I-XII. M2A3s with Dismounted Infantry will maneuver down course roads occupy established Battle Positions and fire at targets approved by Range Ops, and Post Safety. All elements needed to support will be established on Range to include Ammo Point, and Unit Maintenance Control Point.

Project Location:

All of the DMPRC training areas

Amount, Description, Location of Disturbance/Digging:

None

Number of Personnel:

600

Type of Ammunition:

7.62 Tracer 4:1 mix ; 25mm TPDS-T; 25mm TP-T Live and Blank

Number/Types of Trees:

None

Size of Project Area: Entire DMPRC Complex **Duration of Action:** Start: 10/7/2013 Stop: 9/30/2014

Proponent: Patrick K smith 706-544-3865 / 706-505-5223 **Organization/Unit:** 3 BDE 3RD ID

Number/Types of Vehicles:

Number of vehicles:40
Types of vehicles:M3A3, M2A2 ODS
No-Vehicles will be going off road.

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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

Cultural Resources - Archeological Conditions: Edward Howard (706 545 1898), 8/21/2013

See attached JPEG / PDF maps for reference. See "Sensitive Area" signs attachment for appearance of the signs. The project area contains federally protected sensitive sites. These sites may or may not be marked with Siebert stakes placed 20 - 30 meters apart which contain labels warning against ground disturbance. Training may be conducted in these sites so long as it does not disturb the ground (digging, off-road vehicle traffic, etc.) The project OIC is responsible to insure the sites are not disturbed, regardless of whether or not they are marked. They are identified in RED in the attached maps. Additionally, if endangered plants, historic artifacts or Native American artifacts (arrowheads, etc) are encountered here (as in anywhere on the Installation) their removal constitutes theft as well as possible violation of other federal laws. This could result in criminal prosecution. Contact CRM with any questions or concerns. Resubmittal is required if submitted project is modified in any way.

Natural Resources RCW - BRAC Conditions: Jonathan Neufeldt (706 544 7705), 8/21/2013

Action approved as long as training/vehicles stay within the footprint of the DMPRC. Inert rounds need to be contained either within the DMPRC footprint or K15 impact area. No HE will be used based on ammunition listed in 144.

EMD Number: 1322606 **IJO#** **Project Title:** Bradley Live Fire Exercise

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Noise **Conditions:** **Ellis Leeder (706 545 2400), 8/21/2013**

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.

Hazardous Materials/Waste **Conditions:** **Ted Williams (706 545 7579), 8/15/2013**

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.

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. 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.

Rubbish, empty containers and other waste (including used smoke/C2 canisters) should be removed from the training area after the training is completed. Contact EPMB for detailed information on the proper disposal of waste products resulting from the exercise. Contact POC below for any questions or additional guidance.

CWA - Training **Conditions:** **Jessica Taylor (706 604 4572), 8/14/2013**

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.

Signature John E Brown

John E Brown
NEPA Program Manager
Date 23 AUG 2013

Signature

Christopher E. Hamilton, PhD
EPMB Chief
Date 23 Aug 13

RECORD OF ENVIRONMENTAL CONSIDERATION (REC)

Date Submitted: 9/11/2013

EMD Number: 1323108X2 **Project#:** Unknown **Project Title:** Unstabilized Gunnery

Description of proposed action:

I need to add using a MKT to feed troops in the field. It will be located on the DMPRC.

During this training Crews will conduct the various training that includes moving down to the designated course roads, scanning and engaging enemy targets. The vehicles that will be in use are HMMWVs, M113 and LMTV and any other vehicle that can support a weapon system capable of killing the enemy. The designated bivouac areas will be used in conjunction with the proposed training. All Vehicles will remain on the roads, and HMMWVs will maneuver off the roads within the Range Limits. Dismounts will maneuver off the roads as well.

Project Location:

Carmouche Range

Amount, Description, Location of Disturbance/Digging:

None

Number of Personnel:

300

Type of Ammunition:

.50 Cal Ball and tracer,
7.62mm Ball and tracer Live

Number/Types of Trees:

None

Size of Project Area:

Duration of Action: Start: 10/1/2013 Stop: 9/30/2014

Proponent: patrick k smith 706-544-3865 **Organization/Unit:** 3rd BDE 3rd ID

Number/Types of Vehicles:

Number of vehicles:30
Types of vehicles:HMMWV's, M113, M88 Cargo Trucks, Recovery Vehicle, Field Kitchen
No-Vehicles will be going off road.

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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

Cultural Resources - Archeological Conditions: **Edward Howard (706 545 1898), 8/27/2013**

See attached JPEG / PDF maps for reference. See "Sensitive Area" signs attachment for appearance of the signs. The project area contains federally protected sensitive sites. These sites may or may not be marked with Siebert stakes placed 20 - 30 meters apart which contain labels warning against ground disturbance. Training may be conducted in these sites so long as it does not disturb the ground (digging, off-road vehicle traffic, etc.) The project OIC is responsible to insure the sites are not disturbed, regardless of whether or not they are marked. They are identified in RED in the attached maps. Additionally, if endangered plants, historic artifacts or Native American artifacts (arrowheads, etc) are encountered here (as in anywhere on the Installation) their removal constitutes theft as well as possible violation of other federal laws. This could result in criminal prosecution. Contact CRM with any questions or concerns. Re-submittal is required if submitted project is modified in any way.

Natural Resources - RCW None **Michael Barron (706 544 7080), 8/19/2013**

EMD Number: 1323108X2 **IJO#** Unknown **Project Title:** Unstabilized Gunnery

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CWA - Training **Conditions:** **Felix Seda (706 545 9879), 9/11/2013**

MKT Environmental Consideration:

For environmental considerations to protect water quality; all food service facilities and waste collection areas (including Port-a-Potties) must be located away from any water wells, state waters, and waterways (including drainage ditches) in the vicinity of the training area. Recommended distance of approximately 100 (30 meters) from any water source. For this particular training activity located at the Carmouche Range; there are several unnamed tributaries to Upatoi Creek, etc. No wastewaters should be discharged into waterways. No food, grease, garbage, human waste is to be left on site. All fats/oil/grease and/or solid waste must be collected and dispose off properly. Failure to follow these guidance could cause the site to be close for future use.

Recommend use and implementation of FM 4-25.12 (FM 21-10-1) Unit Field Sanitation Team preventive medicine measures when establishing field food service facilities and other waste facilities. To include but not limited to Chapter 2, Section IV: Waste Disposal; Appendix A Lesson 6: Waste Disposal in the Field; Appendix B - Figures B-25, B-26, B-27, B-28.Unit to submit POC in charge of monitoring these activities. For additional specific guidance on field sanitation requirements - contact Fort Benning Preventive Medicine POC: Lt Sanchez-Perez at 706 545 1446 or SGT Montoya at 706 545 1445.

See original FB 144 R for basic requirements under SPCC and ISCP.

Noise **Conditions:** **Ellis Leeder (706 545 2400), 8/20/2013**

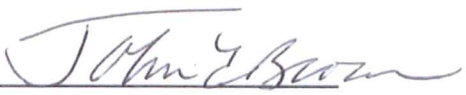
This is training operations request for training. If there is any operational noise complaints received, the Environmental Management Division Installation Operational Noise Monitoring Program (IONMP) and or Public Affairs Office (PAO) programs will investigate and then recommending operational noise 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.

Hazardous Materials/Waste **Conditions:** **Ted Williams (706 545 7579), 8/19/2013**

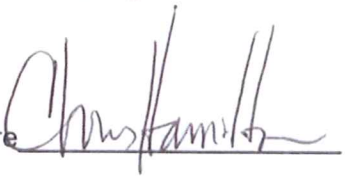
1. Ensure personnel know the correct procedure for handling misfires at the range:

2. Closed containers (ammunition can marked 'MISFIRES") will be used for the collection of misfires at each firing range.
   -The MISFIRE container will stay closed except to add or remove misfires.
   -Misfires SHALL NOT BE COLLECTED in any open container or cardboard box.

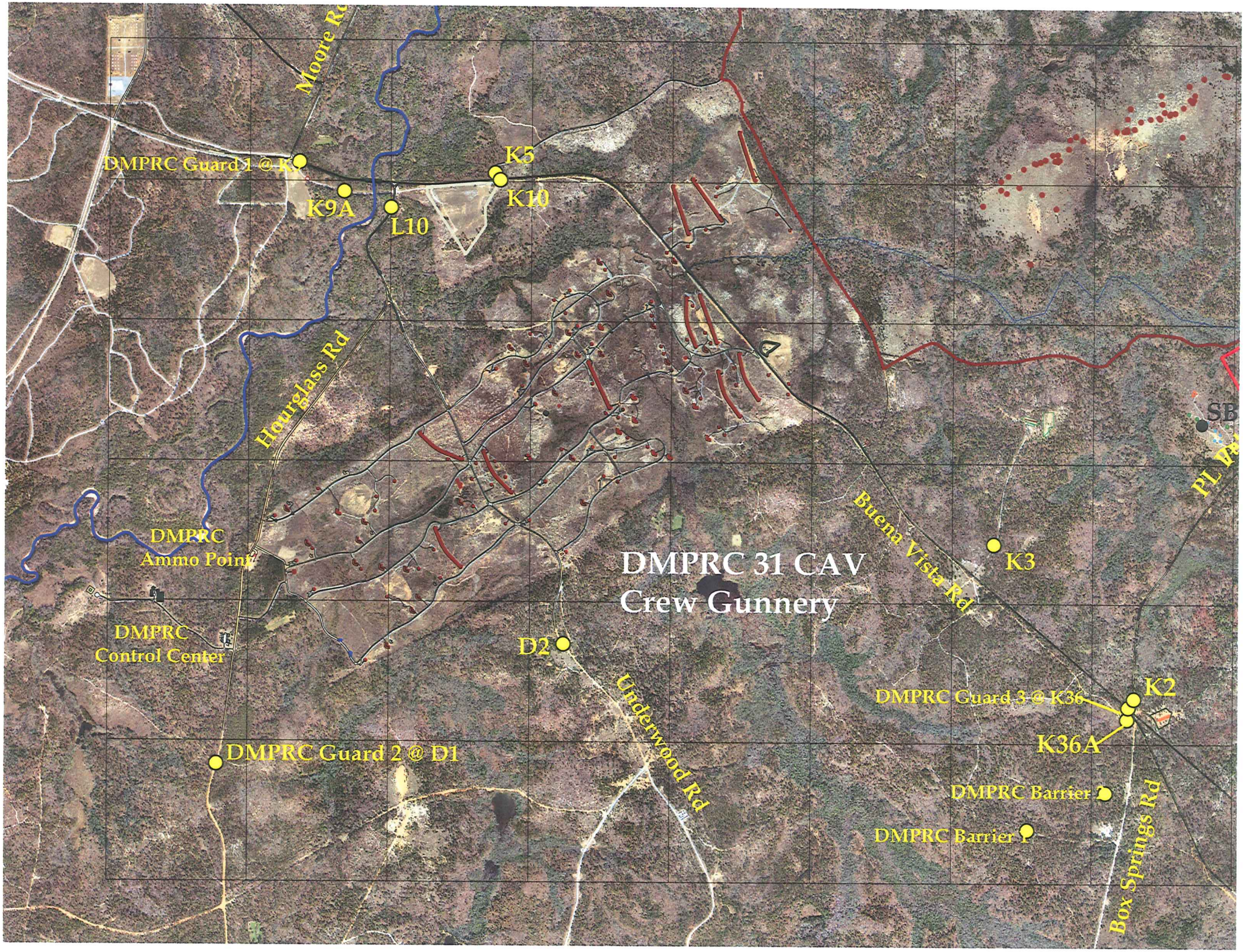
3. Ensure that all containers for collection of patches and swaps are kept closed unless weapons cleaning products are being added. Contact EPMB for detailed information on the proper disposal of waste products resulting from the training.

Signature 

John E Brown
NEPA Program Manager
Date 12 SEP 2013

Signature 

Christopher E. Hamilton, PhD
EPMB Chief
Date 13 Sep 13


DMPRC 31 CAV
Crew Gunnery
Moore Rd
DMPRC Guard 1 @ K9
K9A
K5
K10
L10
Hourglass Rd
DMPRC
Ammo Point
DMPRC
Control Center
D2
DMPRC Guard 2 @ D1
Underwood Rd
Buena Vista Rd
K3
DMPRC Guard 3 @ K36
K2
K36A
DMPRC Barrier 2
DMPRC Barrier 1
Box Springs Rd

DMPRC, 3rd BDE, 3rd ID BFV Gunnery (Log #7-1-13) Roadblock List 20 August 2013

BLOCK	GRID	LOCATION	TYPE
K-2	163 883	Across Box Springs Rd 125m N. of its intersection with Buena Vista Rd.	Gate
K-3	153 894	Across entrance road leading to Concord OP 250m N. of its intersection with Buena Vista Rd.	Gate
K-5	117 920	Across Shamanski Rd 25m N. of its intersection with Buena Vista Rd.	Gate
K9	103 921	On Buena Vista Road 50m East of its intersection with Moore Road.	Gate
K9A	107 919	On Tank Trail approximately 220m East of Upatoi Creek.	Gate
K10	118 920	Across Buena Vista Rd at K-5 road block.	Gate
K-16A	172 989	Across Rinehart Rd 20m S. of its intersection with the northern boundary range road..	Gate
K-16B	171 990	Across un-named trail 20m S. of its intersection with the northern boundary range road.	Gate
K-28	191 885	Across Whitson Rd 15m W. of its intersection with Cactus Rd.	Gate
K29	189 888	Across un-named trail on Cactus Range approximately 290m West of Cactus Road.	Gate
K-30	190 890	Across un-named trail on Cactus Range approximately 370m West of Cactus Road.	Gate
K-32	192 915	Across Shamanski Rd 35m W. of its intersection with Cactus Rd.	Gate
K-36	162 882	Across Buena Vista Rd 50m W. of its intersection with Box Springs Rd.	Gate
K36A	163 882	Across tank Trail 35m W. of its intersection with Box Springs Rd.	Gate

BLOCK	GRID	LOCATION	TYPE
K-38	201 941	Across unnamed trail 35m W. of its intersection with the east boundary road. Permanently closed.	Gate
K-39	202 949	Across unnamed trail 15m W. of its intersection with the east boundary road. Permanently closed.	Gate
K-41	192 944	Across Kennesaw Trail 30m W. of its intersection with Box Springs Rd.	Gate
K-47	176 963	Across Turrentine Rd 1000m W. of mover 4 on Hastings Range	Gate
L-10	110 918	North on Hourglass road South of Buena Vista road 175 meters past tank trail.	Gate
D-1	098 878	On Hourglass Road, 700 meters north of 1st Division Road.	Gate
D-2	122 887	On Underwood road approximately 900 meters north of Underwood and Plymouth road intersection.	Gate

DMPRC, 3rd BDE, 3rd ID BFV Gunnery (Log #7-1-13) Roadguard List, 20 August 2013

Guard #1	On Buena Vista Road at 103 921 (K9 roadblock) blocking traffic going East on Buena Vista Road.	Guard #3	On Buena Vista Road at 1628 8822 (K36 Roadblock) blocking traffic going North-West on Buena Vista Road.
Guard #2	On Hourglass Road at 098 878 (D1 roadblock) blocking traffic going North on Hourglass Road. OIC will coordinate with Mr Cribb (706-626-2678) to inform Guard to allow limited access to the DMPRC Control Center.		

DMPRC, 3rd BDE, 3rd ID BFV Gunnery (Log #7-1-13) Barrier List, 20 August 2013

Barrier #1	On un-named trail at 1553 8738 blocking traffic going West.	Barrier #2	On un-named trail at 1608 8766 blocking traffic going West.

COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK:	2a. DTG BEGIN	2b. DTG END	3. DATE PREPARED *(YYYYMMDD)*
Bradley Gunnery DMPRC	070800OCT2013	192359NOV2014	*20130624*

4. PREPARED BY

a. LAST NAME	b. RANK	c. POSITION
Smith, Patrick K	SFC	BDE Master Gunner

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?
Bradley Gunnery	Round Fired out of range Fan/Impact Area	H	1. A crew packet including GST score sheets for all crew members BATSS/UCOFT printout and a crew worksheet signed by the crew's company commander will be submitted to the OIC and MG running the range prior to any crew conducting dry or live fire training 2. The range will be proofed by a Master Gunner in step with the table script to the assures targets are presented correctly, safely and within the range fans prior to the range going hot. 3. During times of limited visibility, each firing vehicle will be followed by a chase vehicle to assure the firing vehicle maintains proper turret orientation during conduct of the table. The chase VC will be a SSG or above with an experience VC the chase vehicle will have night vision capability. The chase vehicle will have FM communication with the tower and the firing vehicle	M	OIC will collect crew packets during initial range brief on day one of range. Ammo NCO will be briefed on the responsibility to collect pre-fire checklist and verify presence of crew checks Standard briefed during safety brief by RSO, Beach Master will not advance a vehicle not in compliance. Tower will not begin live fire table during night or limited visibilities without chase vehicle in place and on the firing freq.	OIC OIC/MG/AMMO NCO OIC/MG RSO/Beach master	Bradley Gunnery

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	b. RANK	c. DUTY POSITION	d. SIGNATURE
Costanza, Charles D.	COL	BDE Commander	

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 EFFEC-TIVE?
Bradley Gunnery	Accidental discharge weapon malfunction and misfires	M	OIC / RSO will conduct the following : 1. Range Safety Brief Safety briefing will address possibility of accidental discharge, weapon malfunction and misfire for the M2A2 chain gun. M240C coax 2. The VC will ensure that weapons are cleared prior to leaving the course IAW MCOE REG 350-19. When all weapons are cleared the VC will report all clear to the tower. The VC will do the following : 1. Ensure that if no round was ejected and the weapon is hot that no one opens the cover. The safety lever is pushed to the right which places the weapon on safe, keeps the weapon pointed down range for 15 min and then clears the weapon. Being careful when clearing when the barrel is hot a round may fire (cook off) due to the weapons heat instead of the firing mechanism. 2. During training or on a firing range after the weapon has fired 200 rounds the barrel is considered "HOT" Wait 15 minutes before clearing a hot weapon and applying immediate or remedial action. OIC Will do the following 1.Ensure all personnel are weapon system qualified (GST, VCPC, BATS) 2. Ensure proper maintenance and services of weapons are conducted and pre fire checklists are being conducted to standard. 3. Ensure weapons are oriented down range at all times	L	RSO. OIC will give Safety brief and supervise all training	OIC/RSO NCO supervision Instructors VC	

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 EFFEC-TIVE?
Bradley Gunnery	Soldiers Limb crushed by weapon / turret	M	OIC/RSO will do the following 1.Identify the hazards during the safety briefing 2.Turret drive will be off when placing the weapon on manual safe 3.Turret drive will be off when clearing the weapon 4.Combat Overdrive Switch will not be used during training	L	Range Safety Brief Leader involvement Rehearsals Continuous/direct supervision	OIC/RSO NCO supervision VC	
Bradley Gunnery	25MM ammunition detonation	M	1. Range RSO or OIC will cover the possibility that the 25MM gun can double feed when using M910 ammunition. If malfunctions are not properly cleared multiple round initiations may occur 2.To avoid this from occurring the following will be enforced a. Ensure that rounds are properly aligned in the links. Ensure M910 rounds that are missing nose caps are removed from the link b. Do not remove serviceable nose caps from M910 rounds c. Malfunctions that cannot be cleared by pushing the misfire button and cycling the gun back to seat must be cleared by removing the feeder and physically inspecting the chamber for unfired ammunition by the VC. d. If the straight drive shaft is dropped for any reason the feeder must be removed from the receiver and the weapon visually checked and cleared by the VC 3. The VC clears all 25MM guns IAW USAIC Regulation 210-4 4. Ammo will be stored in assigned location on range and covered until used.	L	Range Safety Brief Leader involvement Rehearsals Continuous/direct supervision	OIC/RSO NCO supervision AMMO NCO VC	

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?
Bradley Gunnery	Heat Casualty Injury	H	1. Soldiers with previous Heat injuries will be identified prior to the operation. 2. All Soldiers will wear Camelbacks filled with water. 3. OIC will ensure water buffalo is on site, and parked under shade. 4. Heat Casualties will be treated as needed by the CLS on site and evacuated via evict vehicle or air MEDEVAC during heat cat 3 and above. All firing vehicles hatches (accept the driver) will be in the pop up position and safety locking lever will be in the lock position. 5. Soldiers will eat 3 meals each day. 6. Soldiers in the BFV will have water accessible to them at all times while they are waiting to go downrange. As crewmembers wait to go down range, the ramp will remain down and the driver's hatch will be open. Each crew will have a minimum of one five gallon jug of water on the back of each BFV. 7. The NCOIC of the range will be responsible for verifying that crews are adhering to the guidelines as stated above. When a vehicle is down range the VC will ensure all members on the vehicle are consuming water at all times and report any heat situations to the RSO. Soldiers and crew members waiting to enter the vehicles will stay in the shade and drink water. If the water buffalo is not present there will be additional water stored at a water control tower located to the left of the AAR shed.	M	IAW USAIC Regulation 40-14 "Prevention of Heat Injuries" Iced sheets will be used.	RSO/ NCOIC/ Medics/VC	

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?
Movement to DMPRC Range from BN Motorpool	Soldier is hit by vehicle	M	1.NCOIC/OIC will identify the hazards during the convoy safety briefing 2.Ground guides will be used when backing up vehicles 3.Driver will adhere to posted speed limit at all times 4.Allow enough distance between the vehicle and any pedestrians 5.Vehicles will maintain a minimum distance of 100 meters between each other during periods of limited visibility 6.Turret will remain at the 12 O'clock when passing another vehicle	L	NCOIC/OIC will give Safety Briefing and Supervise	VC/Supervisor	
Movement to DMPRC Range from BN Motorpool	Ramp crushes soldier	L	1.NCOIC/OIC will identify the hazard during the convoy safety briefing 2.Soldiers will be familiar with ramp operations prior to Deploying to the range 3.Ground guides and VCs will ensure that ramps are clear before raising and lowering	L	NCOIC/OIC will give Safety Briefing and Supervise	VC/Convoy CDR	
Movement to DMPRC Range from BN Motorpool	Soldier crushed by vehicle	M	1.NCOIC/OIC will identify the hazards during the convoy safety briefing 2. Soldier will not walk between vehicles 3. VCs will ensure vehicle separation is maintained at all times 4. Vehicles will maintain minimum distance of 50 meters between each other while on movement during periods of clear visibility.	L	NCOIC/OIC will give Safety Briefing and Supervise	VC/ Convoy CDR	

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 EFFEC-TIVE?
Movement to DMPRC Range from BN Motorpool	Injury by tripping or falling off a vehicle	M	1. Soldiers will keep alert for tripping hazards i.e. rocks, rough terrain. 2. Soldiers will maintain 3 points of contact while climbing on and off of vehicles	L	NCOIC/OIC will give Safety Briefing and Supervise	Supervisor	
Movement to DMPRC Range from BN Motorpool	Vehicles strike another vehicle	M	1.NCOIC/OIC will identify the hazards during the convoy safety briefing 2. Use of ground guides as necessary 3.VC will ensure vehicle separation is maintained at all times 4.Vehicles will maintain minimum distance of 50 meters between each other while on movement during periods of clear visibility	L	NCOIC/OIC will give Safety Briefing and Supervise	VC/Supervisor	
Movement to DMPRC Range from BN Motorpool	Soldier hits head or is struck by equipment in crew compartment	M	1.NCOIC/OIC will identify the hazards during the convoy safety briefing 2.VCs will ensure all equipment is properly stowed and secured 3.VCs will ensure that all soldiers wear seatbelts and ACH or CVC helmet	L	NCOIC/OIC will give Safety Briefing and Supervise 2.Leaders conduct inspection prior to movement	VC/Convoy CDR	
Movement to DMPRC Range from BN Motor pool	Vehicles roll over	M	1. NCOIC/OIC will identify the hazards during the convoy safety briefing. 2.Vehicles will remain on center lane of tank trail to avoid washout areas and ditches	L	NCOIC/OIC will give Safety Briefing and Supervise	VC / Convoy Leader	
Bradley Gunnery	Soldier is hit by vehicle	H	1. Identify the hazards 2. Ground guide will be used when backing 3. Soldiers will use proper ground guiding procedures	M	Hazards will be briefed prior to ammo loading operation	VC/Supervisor	

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 EFFEC-TIVE?
Bradley Gunnery	Soldiers bitten or stung By insect or snakes	M	1. NCOIC will identify the hazards during the range safety briefing. 2. Soldiers will be advised not to chase or aggravate animals. 3. Brief soldiers on the various types of hazards and wildlife. Instruct solders not to handle or harass the wildlife. 4. Identify soldiers who are allergic to insects and ensure that those soldiers have equipment ready to remedy themselves. (Bee sting kits, ext).	L	RSO/OIC will give safety brief and supervise all training	All Soldiers	
Bradley Gunnery	Accidental discharge of weapons or weapon malfunction	M	1. NCOIC will identify the hazards during the range safety briefing. 2. VC's and instructor will provide additional instructions and supervision during loading and clearing procedures. 3. Range will inform the VC that he is responsible for ensuring that all weapons are cleared prior to leaving the firing position and range IAW MCOE REG 350-19. 4. VC's and gunners will ensure proper maintenance and service of weapons are conducted. Instructors will supervise signing of pre-fire check list. 5. Medics will be on site during all LFX 6. Pre-fire checklist will be complete prior to Crews drawing ammo. 7. All systems bore sighted before firing.	L	RSO/OIC will give safety brief and supervise all training	RSO, VC, Gunners	
Bradley Gunnery	Mixing of DODACs	M	OIC and RSO will inspect the rounds on the range with the ammunition NCO to ensure the proper ammunition has been placed on the range IQW the fire/non-fire Data DODICS to be fired. A940 CTG 25 MM TPDS-T M910 A976 CTG 25 MM TP-T M793 A128 7.62 MM BALL LNKD A131 7.62 MM BALL 4/1 TRACER MIX	L	Leader involvement RSO/OIC Safety brief Continuous/direct supervision from AMMO NCOIC	RSO, VC, Gunners AMMO NCO	
Bradley Gunnery	Soldiers injured lifting equipment and ammo	M	1. Identify the hazards. 2. Personnel will work in groups and use proper lifting techniques	L	NCOIC/OIC give safety brief and supervise	Supervisor	

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 EFFEC-TIVE?
Bradley Gunnery	Falling either by tripping or falling off a vehicle.	M	1. Watch your footing. 2. Keep alert for tripping hazards i.e. rocks, branches, ext. 3. Maintain 3 points of contact while on the vehicle	L	NOC/OIC will give Safety Briefing and supervise	VC/Supervisor	
Bradley Gunnery	Vehicle strikes another vehicle	M	1. NCOIC/OIC will identify the hazards during the convoy safety brief 2. Ground guide will be used when necessary 3. VC/VB will insure vehicle separation is maintained at all times 4. Vehicles will maintain a minimum distance of 50 meters between each other while on movement during periods of clear unrestricted visibility	L	NOCIC/OIC will give Safety Briefing and supervise	VC/Supervisor	
Bradley Gunnery	Vehicle roll over	M	1. NCOIC/OIC will identify the hazards during the convoy safety briefing 2. Driver will adhere to posted speed limit at all times 3. Route recon will be conducted daily prior to execution of range 1. Vehicle will only be driven on flat range surface. These must be cleared by RSO 2. All Soldiers will have rehearsed roll over drills prior to the range, IAW unit SOP 3. VC's will have commo at all times with the driver 4. Range OIC will ensure Soldiers and drivers are familiar with the course road 5. Range OIC will ensure crews are familiar with the course 6. Crew members will conduct roll over drills prior to executing the range	L	NOCIC/OIC will give Safety Briefing and supervise	VC/RSO/OIC	

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 EFFEC-TIVE?
Bradley Gunnery	Hatch closes on soldier	M	1. NCOIC will identify the hazard during the daily range briefing 2. All soldiers will be familiar with hatch operation prior to deploying to the range 3. VC's will ensure that hatches have all the required safety pins and that they are operational and in place	L	NOCIC/OIC will give Safety Briefing and supervise	VC	
Bradley Gunnery	Ramp crushes Soldiers	M	1. NCOIC will identify the hazard during the daily range safety briefing 2. All soldiers will be familiar with ramp operations prior to deploying to the range 3. Ground guide and VC's will ensure that ramps are clear before raising and lowering	L	NOCIC/OIC will give Safety Briefing and supervise	VC	
Bradley Gunnery	Soldier hits head or is struck by equipment in crew compartment	M	1. NCOIC/OIC will identify the hazards during the convoy safety briefing. 2. VC's will ensure all equipment is properly stowed and secured 3. VC's will ensure that all soldiers wear seatbelts and Kevlar or CVC helmet.	L	NCOIC/OIC will give safety briefing and supervise Leaders conduct inspection prior to movement	VC/RSO	
Bradley Gunnery	Soldier is struck by lightning	M	1. Monitor weather conditions 2. Identify safe areas for when conditions warrant. 3. Suspend all training during electrical storm IAW unit SOP 4. Brief soldiers on electrical storm plan and point out location for evacuation and accountability. 5. Ensure that all soldiers ground individual and don their wet weather gear	L	Safety Briefing	RSO	

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 EFFEC-TIVE?
Bradley Gunnery	Loss of hearing	M	1. Soldiers will receive a clear, detailed safety brief. 2. Soldiers will wear hearing protection when firing operating vehicles or near vehicles that are on. 3. Additional earplugs will be available and Soldiers will be notified of their existence.	L	IAW USAIC Regulation 210-5	RSO/ NCOIC/ Medics	
Bradley Gunnery	Loss of eye sight	M	1. All Soldiers will wear ballistic glasses while firing on Range. 2. Any Soldier sustaining an eye injury will be evacuated immediately to higher level medical care.	L	Safety Brief Leader involvement/ leader checks PCC/PCI's Enforce buddy checks	OIC/RSO Safeties NCO supervision Buddy system MEDIC	
Bradley Gunnery	CASEVAC/MEDEVAC to hospital	M	1. OIC will contact Martin Army Hospital's Emergency Room prior to the execution of the range in order to identify the location of a medical exchange point. The medical exchange point is a location that will be used to exchange a patient to a higher level of care. Prior to the execution of the range, the Medical team will RECON the safest and fastest route to the medical exchange point. 2. The OIC will evacuate all serious injuries by air by calling a 9-line MEDEVAC through the Range Control net. The primary LZ for air evacuation is 16SGA 00400 77550. The primary marking signal for air evacuation is red smoke.	L	Safety Brief PCC/PCI's/ Rehearsal	OIC/RSO Company 1SG MEDIC	

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 EFFEC-TIVE?
Bradley Gunnery	Firing unapproved Ammo on the range	M	1. OIC, RSO, NCOIC, and AMMO NCO will cross check the range packet with the 581 to ensure only the approved ammo is present on the range as well verify the DODIC of the ammo listed on the firing non-firing data sheet in the range packet. 2. OIC, RSO, NCOIC, and AMMO NCO will check, open at least one case of every type of ammo to verify contents are correct with the DODAC	L	RSO brief Ammo NCO on the type of ammunition to be fires	RSO/ OIC AMMO NCO	
Bradley Gunnery	Fire inside crew compartment of BFV	M	1. Crews complete prep to fire checks prior to firing. 2. Leaders complete PCIs prior to firing. 3. Crews conduct PMCS daily. 4. Crews complete rehearsals of crew evacuation drills daily prior to firing. 5. Loaders follow proper loading procedures. 6. Crews wear Nomex uniform with balaclava, gloves, and spall vest while firing.	L	Safety Brief Fire Drill Rehearsal	OIC/RSO NCO supervision VC	
Bradley Gunnery	Laser rangefinder operation	M	1. Laser rangefinders will only by utilized when the range is in the appropriate direct fire status. 2. Lasers will be inspected by the RSO to ensure the proper status when exiting the range. 3. OIC will verify that no reflective materials are in the area surrounding targets. 4. Laser ranger-finders will only be used on approved targets with appropriate backstops.	L	Leader supervision and briefings. Leader inspection and verification of range scenario	OIC, RSO, Unit Master Gunner	

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 EFFEC-TIVE?
Bradley Gunnery	Environmental Considerations	M	Soldiers will be briefed on the location of the latrines. The range will be thoroughly policed of all garbage, trash and dunage prior to closing. All vehicles on the range will use drip pans and chalk blocks when parked and a POL spill kit will be on the range.	L	Safety Brief Leader involvement PCC/PCI's	OIC/RSO NCO supervision	
Bradley Gunnery	Forest Fire on the Range	M	1. Soldiers will only smoke in designated smoke brake areas. 2. Fire danger classes will be monitored by OIC through range control. The OIC will take the following precautions: 1. When a fire danger class 4 is reached the use of tracers and incendiary training aids such as flares, simulators, pyrotechnics, smoke grenades, firecrackers and open fires will cease immediately. 2. Blanks may be used. Exception to discharge incendiary ammunition and general pyrotechnics in all areas of the military reservation must be requested through Range Operations Branch by the BN S3. Operations Chief. Exceptions may be granted to that training which is most critical to unit mission. 3. When a fire danger class 5 is reached, the use of all incendiary type ammunition will cease immediately. Blanks may be used. Exception to this policy may be granted to enhance the most critical training and must be requested from Range Division by the BN S3	L	Safety Brief A Fire Suppression Kit assessable on range with Shovels and Rakes Range Control Radio Monitored Appointed Marshall NCO w/fire detail	RSO/OIC/ Fire Marshall NCO	

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 EFFEC-TIVE?
Bradley Gunnery	Forest Fire on the Range	M	4. Appoint a noncommissioned officer daily as unit fire marshal to ensure all personnel have been indoctrinated concerning the safe use of incendiary devices and to supervise the immediate suppression of fires. 5. The OIC will promptly report any fire and be responsible for suppression of the fire until Land Management Branch personnel arrive at the scene. All personnel and equipment present at the scene of fire will be made available to Land Management Branch personnel for fire suppression purposes. d. Reporting. (1) All range fires will be reported as soon discovery to the following: (a) Range Control, DPTMS, telephone 544-6291/6371 or by radio. (b) Post Fire Department, telephone 911. (c) Land Management Branch, DPW, telephone 544-7081/6206. (2) Units involved in fighting a fire will submit a written report to the Chief, EMD within 24 hours to include the following: (a) Date and time of Fire. (b) Location. (c) Circumstances surrounding the discovery of the fire (d) Description of actions taken to extinguish the fire. (e) Procedures. In many cases immediate action by units.	L	Safety Brief A Fire Suppression Kit assessable on range with Shovels and Rakes Range Control Radio Monitored Appointed Marshall NCO w/fire suppression detail	RSO/OIC/ Fire Marshall NCO	

Risk Assessment Matrix

SEVERITY			HAZARD PROBABILITY				
			FREQUENT	LIKELY	OCCASIONAL	SELDOM	UNLIKELY
			A	B	C	D	E
	CATASTROPHIC	I	EH	EH	H	H	M
	CRITICAL	II	EH	H	H	M	L
	MODERATE	III	H	M	M	L	L
	NEGLIGIBLE	IV	M	L	L	L	

RISK LEVELS

Extremely High - Loss of ability to accomplish the mission.

High - Significantly degrades mission capability.

Medium - Degrades mission capability.

Low - Little or no impact to mission capability.

Examples

I/A = Extremely High

II/B = High

III/C = Medium

IV/D = Low

EFFECT

1. CATASTROPHIC - Death or permanent total disability, system loss, major property damage.
2. CRITICAL - Permanent partial disability, temporary total disability, major system damage, major property damage.
3. MODERATE - Minor injury, lost workdays, compensable injury/illness, minor system damage, minor property damage.
4. NEGLIGIBLE - First aid or minor supportive medical treatment, minor system impairment.

PROBABILITY

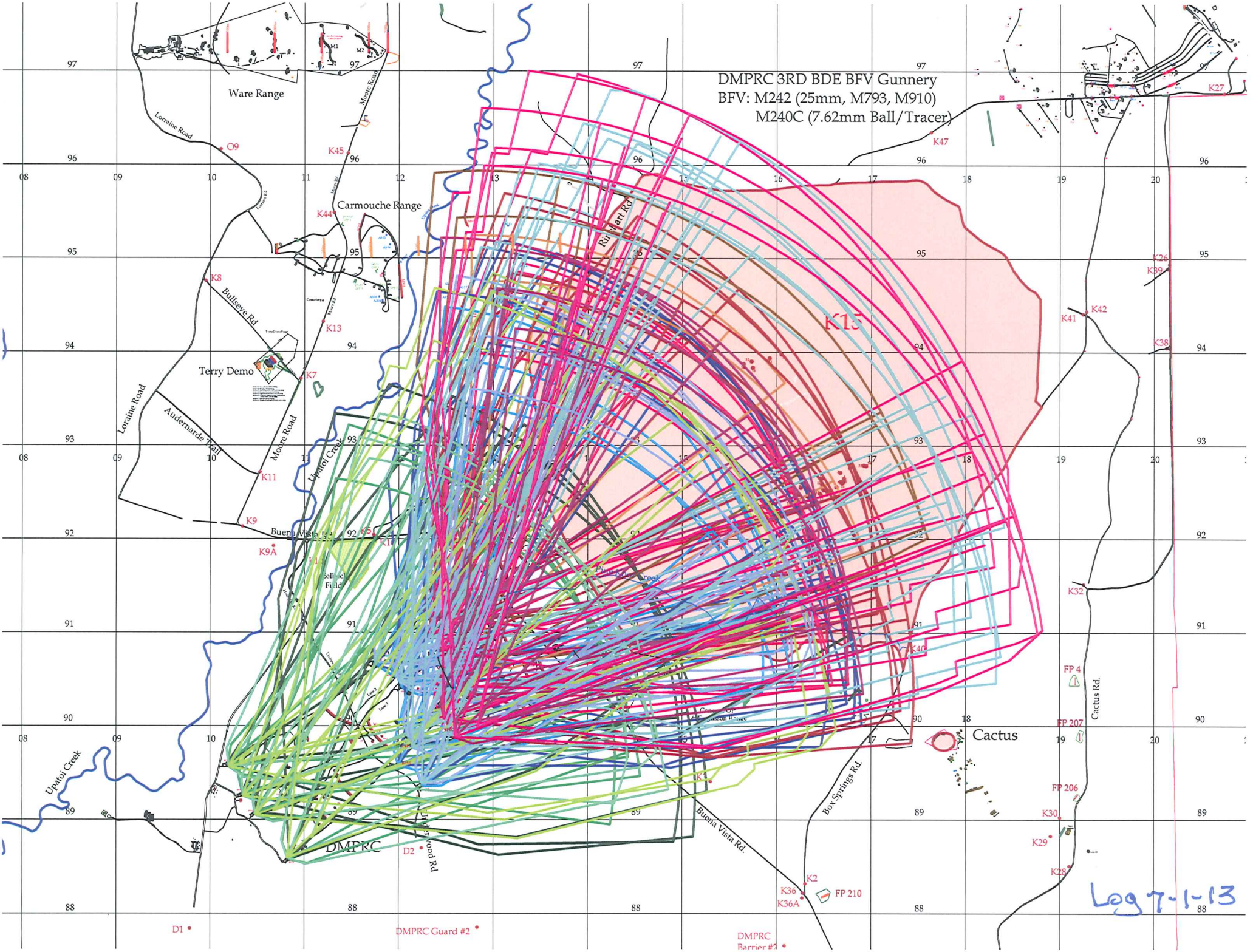
A. FREQUENT - Occurs often - resources are continuously exposed.

B. LIKELY - Occurs frequently - resources are exposed frequently and/or several times.

C. OCCASIONAL - Occurs sometimes - resources are exposed sporadically.

D. SELDOM - Remote occurrence - resources are possibly exposed.

E. UNLIKELY - Rare occurrence of exposure


DMPRC 3RD BDE BFV Gunnery
BFV: M242 (25mm, M793, M910)
M240C (7.62mm Ball/Tracer)
Ware Range
Carmouche Range
Terry Demo
Lorraine Road
Moore Road
Bullseye Rd
Audernarde Trail
Upatoi Creek
Buena Vista Rd.
Box Springs Rd.
Cactus Rd.
Cactus
DMPRC
K15
O9
K45
K44
K8
K13
K7
K11
K9
K9A
K47
K27
K26
K39
K42
K41
K38
K32
K40
FP 4
FP 207
FP 206
K30
K29
K28
K2
K36
K36A
FP 210
D2
D1
DMPRC Guard #2
DMPRC Barrier #2
Log 7-1-13