

FIRING/NONFIRING DATA

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

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

Date: 01 August 2013 Log #8-1-13
Range: Ware Range
Title: SBIC Bradley Leaders Course
Problem No:

THRU: S-3, 197th IN BN
FT. Benning Ga. 31905

FROM: S-3, 1-29TH IN BN
FT. Benning Ga. 31905

SECTION I, TYPE OF TRAINING

a. Live Fire b. Non-live Fire CP/Controller Coordinates: GA 0963 9728 (Tower)

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

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

SECTION III, WEAPONS/AMMUNITION REQUESTED

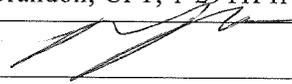
Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
See Weapons & Ammo List	See Weapons & Ammo List	See Weapons & Ammo List	See Weapons & Ammo List	See Weapons & Ammo List

SECTION IV, LIVE FIRE EXERCISES Attach the following:

SECTION V, NON-LIVE FIRE TRAINING

- 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:

- 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:
Pye, Brandon, CPT, 1-29TH IN SBIC CDR


Name/rank of Major Unit S3/Commander:
Olearnick, Clint MAJ, 1-29TH BN, XO


SECTION VI, FOR RANGE DIVISION USE

DATE: 21 Nov 13

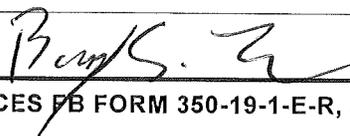
TO: S-3, 197th IN BN
FT. Benning Ga. 31905

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**

K: 5, 12, 14, 15, 16A, 16B, 17, 41, 44, 47. O: 9, 18.

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





DEPARTMENT OF THE ARMY
STRYKER BRADLEY INSTRUCTIONAL COMPANY, 1ST BATTALION, 29TH INFANTRY REGIMENT
HEADQUARTERS UNITED STATES ARMY MANEUVER CENTER OF EXCELLENCE
6708 BRADLEY DRIVE
FORT BENNING GEORGIA 31905-5594

REPLY TO
ATTENTION OF

ATSH-INA-S

27 Aug 2013

MEMORANDUM FOR RANGE CONTROL

SUBJECT: 1-29th IN SBIC Bradley Leaders Course

1. PURPOSE: This memorandum is to promulgate multiple scenarios firing simultaneously, that incorporates the M2A3 Bradley Fighting Vehicles. Training is to be conducted on Ware Range in support Bradley Leaders Course (BLC).

2. TRAINING OBJECTIVES: Each course has planned and implemented prerequisite training prior to firing on Ware Range; accompanied thereafter by individual POI training objectives.

A. BLC:

- a. Prior to gunnery; the students conduct classroom training, BATS exercises up to the MPL 309. GST is conducted with both students and POI support. GT I, GT II, are also conducted prior to shooting gunnery.
- b. The primary objective of this training exercise is to increase the Student's ability to setup and operate a Bradley Fighting Vehicle gunnery range operations.

3. TASKS TO BE TRAINED:

A. BFV Gunnery

4. LASER SAFETY: All Training with the use of lasers will comply with MCoE Reg. 350-19. The BFV, Precision Gunnery and MILES system are equipped with eye-safe lasers. Class IIIA 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 the range. **Range safety briefing will include hazards using Lasers.**

5. 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 MCoE 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.

6. 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

7. **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.

8. **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.

9. **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.

10. **RANGE CONSIDERATIONS:** The following will be employed while conducting training.

- A. The range OIC and RSO will be present for all training.
- B. **CONTROL MEASURES:** The cadre will ensure all personnel are clear of the SDZ prior to engagement. BFV Crews will load after occupying the baseline and will have weapons oriented up/down range at all times. Weapons will remain on safe at all times while moving and when all engagements are completed. At no time will any weapons be allowed to engage unauthorized targets. The cease-fire signal for emergencies will be communications and flags. A detailed risk assessment will be conducted before training, and all measures identified will be enforced. The Battalion Commander, or his designated representative, will certify all live fire scenarios. All training will be in accordance with the appropriate FM's, Battalion standards and SOP's, and Fort Benning regulations.
- C. All **VEHICLE CREWS** participating in the Gunnery will adhere to MCOE 350-19, and proper display of colored flags to signal weapons/ammunition status.
- D. All weapons will remain on safe unless actively engaging targets. Only authorized targets will be used.
- E. All ammunition will be discharged down range and within the designated limits. All

unused ammunition will be turned in to the Ammo Supply Point, to the Ammunition NCO.

- F. All Soldiers will be briefed that any Soldier observing an unsafe act can immediately call a check/cease fire. Emergency cease fire signal will be briefed prior to firing.
- G. At no time will ammunition be fired over the heads of Soldiers.
- H. Any UXO discovered will be reported to Range Control and EOD, and will be cleared prior to allowing maneuver through the area in which the UXO was found. All vehicles and personnel may have to leave the firing line.
- I. 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.
- J. Personnel movement from the bleachers to the vehicles and back to the bleachers will be handled by the range NCOIC. Soldiers will proceed in a straight line from the rear of the vehicle on and off the firing line.
- K. No personnel are authorized forward of the firing line at any time during the conduct of the range.
- L. All Soldiers will be in proper range uniform; MICH/ACH, Eye protection, Ear protection, Gloves and LBE/MOLLE/kit.
- M. All BFV crews participating in the Gunnery will adhere to MCoE Reg 350-19, proper display of colored flag to signal weapons/ammunition status.
- N. The medical/CLS assets will be located at the command post vicinity GA 0963 9728. A CASEVAC vehicle will be on hand during all live fire training.
- O. Unit will use the standard 9 line MEDEVAC in case of illness or injury.
The OIC and RSO will ensure that medics/CLS know the lane and the ground routes to and from the lanes to the hospital in case ground evacuation must be conducted. If a Soldier needs to be aerial evacuated it will occur from the point of injury (911). MEDEVAC will be IAW MCoE Regulation 350-19 and MCoE 40-2. Landing zone for MEDEVAC aircraft will be established prior to use and will be marked appropriately.
- P. Each crew must be certified dry before being allowed to conduct the live fire.
- Q. The range OIC and RSO will ensure that all Soldiers receive a detailed safety brief And that all training is conducted to standard.
- R. M242 ammunition and M240C ammunition will be kept separate at all times. All Soldiers will be checked for brass and ammunition before the ASP issues ammunition to the section, and the Ammunition NCO, OIC and RSO will ensure the proper ammunition is being issued. The RSO or safety will also ensure all weapons are

properly cleared on and off the Baseline.

- S. All misfire procedures will be rehearsed prior to starting the exercise. The RSO will ensure that the students fully understand the proper misfire procedures and safety checks before allowing them to start the exercise.
- T. Any issues/incidents during training will immediately be reported to Range Control and /or the chain of command.
- U. All environmental considerations will be enforced.
- V. The left and right limits of the FB 350-19-1-E-R will be enforced at all times during dry and live fire training.

11. CONCEPT OF TRAINING: The operation for each POI will be conducted in three phases.

Phase I - PREPARATIONS: See 2. Training Objectives; for the compiled list of prerequisite training for the individual POIs. All equipment will be inspected for serviceability and safety prior to training. All vehicles will be properly dispatched, and support requests will be completed and confirmed. Coordination will also be made with range control to ensure all issues are addressed before the training is conducted.

OCCUPATION - The POI will conduct movement to Ware Range, and move to their designated assembly areas. The POI will occupy Ware Range as per FB 350-19-1-E-R. The exercise command post will be located in the vicinity GA 0963 9728 (Vic Control Tower). The BN S-3 will ensure the targets are in working order. The OIC will coordinate with target systems to inspect all targets and insure that they are protected from any engagement. The OIC, RSO, Master Gunner/Trainer will ensure that there is good communications with the target operator, and that he fully understands the desired scenario. Medical assets will also be pre-positioned at that command post and a field ASP will be established and ammunition types confirmed.

Phase II — GUNNERY: Each POI will have a different emphasis for training as such their respective is outlined below.

BLC - Each BFV crew will conduct an abbreviated Day and Night Gunnery IAW FM 3-20.21 Heavy Brigade Combat Team, Dec 2009. The Gunnery will start and finish on the Baseline, IAW approved target sheet. BFVs may fire and/or qualify from the left, right or center of the baseline. The BFV will not maneuver while firing. No offensive engagements will be conducted. All BFV firing will be conducted on the base line; while BFV is stationary. **Battle position 1 and 2 will not be used at anytime.**

Phase III – CLEARING: A detailed clean up of the range will be conducted once all training is completed. 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. A 100% sensitive items check will be done prior to leaving the Range.

RECOVERY: Once the unit has been cleared from the range, the unit will return to the battalion area. A closing report must be submitted at the completion of training. A detailed recovery will be conducted as per the SOP. A detailed after actions review will be conducted as well.

12. MEMORANDUM CONSIDERATIONS:

- A. ALL POI MANAGERS have read and understands the scenario(s) for this training packet.
- B. ALL POI MANAGERS will execute all training with safety constraints as identified in this packet.
- C. ALL POI MANAGERS acknowledges they cannot deviate from this approved packet in any way and must use the identified firing positions and target arrays as defined therein.
- D. ALL POI MANAGERS will ensure the OIC/RSO are briefed on use of this packet prior to execution of this packet.
- E. ALL POI MANAGERS acknowledge they are required to provide an updated Commander's Composite Risk Management Worksheet (BN level or higher) for this event included with this memorandum that must be approved by Post Safety prior to approval and execution.
- F. ALL POI MANAGERS acknowledge they are required to have a copy of this packet on the range while executing this training.
- G. ALL POI MANAGERS will ensure they have an updated 144R (Environmental Form), if required, with this memorandum.
- H. ALL POI MANAGERS understand that any accidents resulting from use of this Packet will freeze this packet for all users, and may, depending on severity of the Incident, have the packet revoked for further use by all.

13. POC for this memorandum is the undersigned at (706)-544 6950



MATHEW EASTWOOD
SFC/USA
BLC Branch Chief



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

04 September 2013

MEMORANDUM FOR Commander 1/29th IN Bn., Attn: SFC Freeman, Fort Benning, GA
31905

SUBJECT: 1/29th IN Bn. SBIC Bradley Leaders Course at Ware Range Safety Review

1. References.

- a. 1/29th IN Bn. SBIC Bradley Leaders Course at Ware Range, 27 August 2013.
- b. Army Regulation 385-10, The Army Safety Program, 24 August 2007
- c. Army Regulation 385-63, Range Safety, 19 May 2003
- d. Department of the Army Pamphlet 40-501, Hearing Conservation Program, 10 December 1998
- e. Department of the Army Pamphlet 385-10, Army Safety Program, RAR 19 January 2010
- f. Department of the Army Pamphlet 385-30, Mishap Risk Management, RAR 01 February 2010
- g. Department of the Army Pamphlet 385-63, Range Safety, RAR 12 May 2009
- h. Field Manual 5-19, Composite Risk Management, August 2006
- i. MCoE Regulation 350-19, Range and Terrain Regulation, 01 March 2013
- j. MCoE Policy Memorandum 385-6-14, Composite Risk Management, 22 October 2012

2. Document received on 27 August 2013.

3. Concur w/comment.

- a. Memorandum, paragraph 4, pg 1. When lasers are in use or pending use during the training period/iteration laser warning signage must be posted to warn everyone that the hazard exists.

ATZB-SO

SUBJECT: 1/29th IN Bn. SBIC Bradley Leaders Course at Ware Range Safety Review

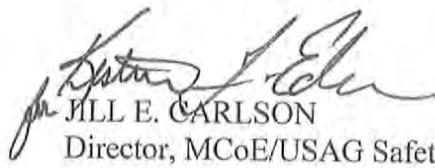
b. Memorandum, paragraph 12H, pg 4. During the cleanup phase, special emphasis must be placed on the handling and collection of spent brass and the prevention of lead contamination.

c. Memorandum, paragraph 12H, pg 5. Any accident could result in revocation of our endorsement.

d. RMW, Block 8, pg 4. "Soldier struck by lightning", recommend that you add to the control measures a daily weather briefing from the U.S. Air Force Observers/Forecasters stationed on Lawson Army Airfield for the time period that you plan on being on the range and update that briefing every six hours.

e. RMW, Block 7 & 9, pg 5. "Soldier injured by a negligent discharge of weapon or weapon malfunction", recommend that that you reassess the hazard to the ingestion of large caliber (.50 caliber and 25 mm) high velocity +500 grain copper jacketed injection to the human body. This is scenario is very capable of creating a catastrophic event. The Initial and Residual Risk Levels should be nothing less than "HIGH" and "MODERATE", respectfully, in the risk levels.

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

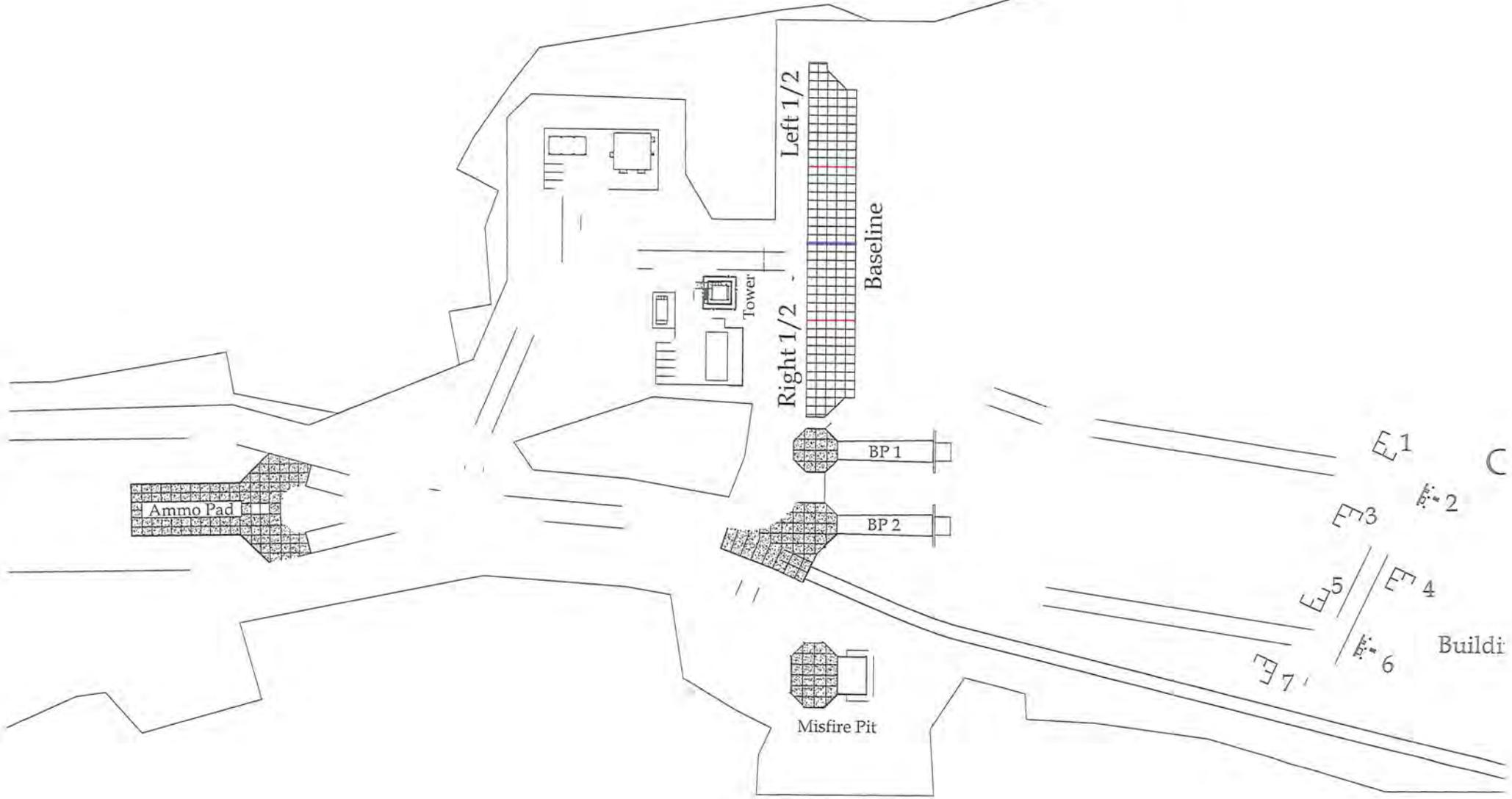

JILL E. CARLSON
Director, MCoE/USAG Safety

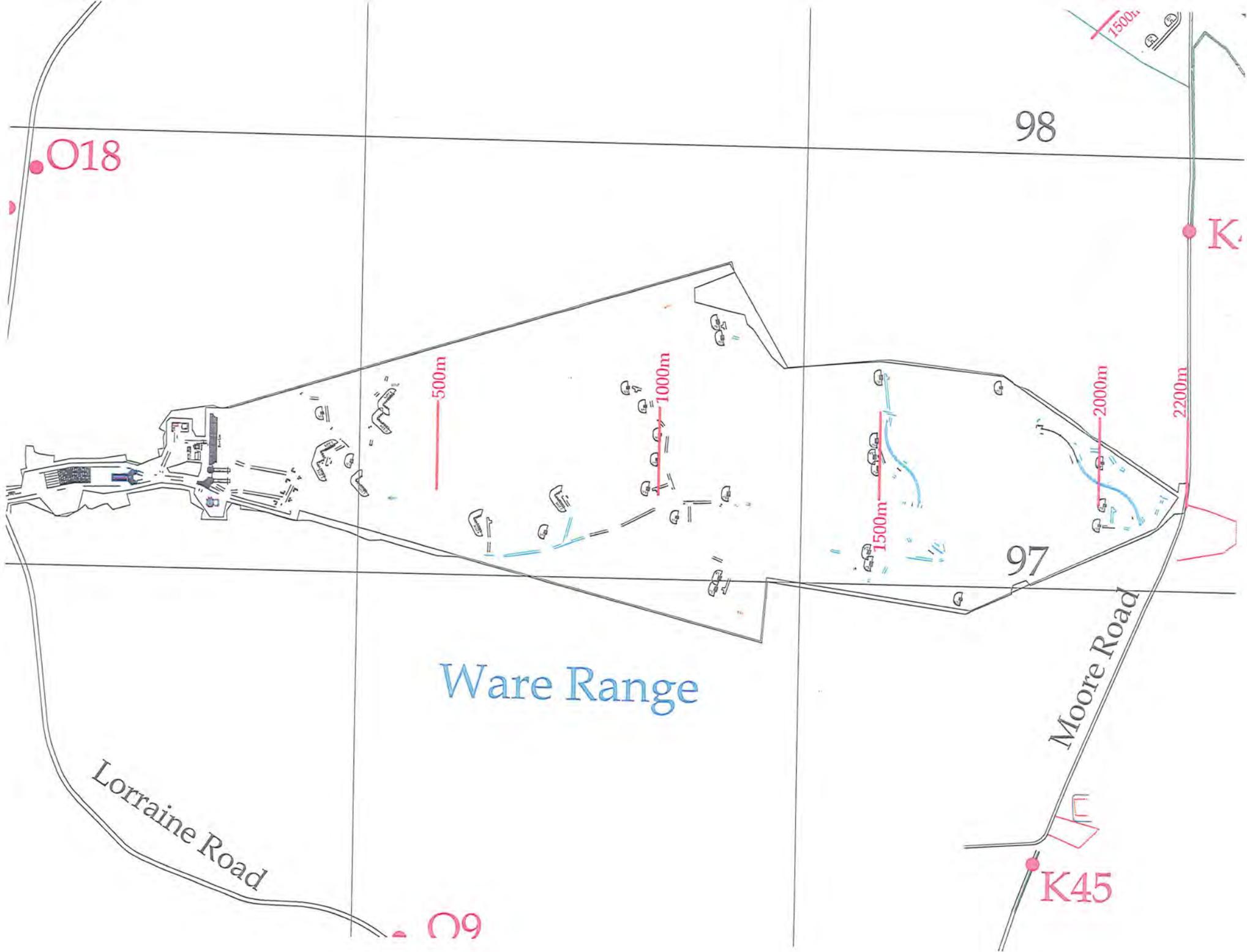
Ware Range 197th, 1/29 IN SBIC Bradley Leaders Course (Log #8-1-13) Weapons/Ammo & Target List

Firing Positions	Weapons	Ammunition	Left Limit Mils, Grid Az	Right Limit Mils, Grid Az
Baseline: GA 0968 9735 to 0968 9724	BFV M242 M240C	25mm (M793, M910) 7.62mm Ball/Tracer	1290 1195	1925 2085

Firing Positions	Weapons	Ammunition	Targets
Baseline: GA 0968 9735 to 0968 9724	BFV M242 M240C	25mm (M793, M910) 7.62mm Ball/Tracer	201, 203-225. M1, M2. C1-C7, MIT301- MIT307

Ware Range





Ware 197th, 1-29 IN Bradley Leaders Course (Log #8-1-13) Roadblocks 20 Aug 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-26	GA 201 949	Across Boundry Road 1800m S of its intersection with Turrentine Road	Gate
K-3	GA 153 894	Across entrance road leading to Concord OP 250m N. of its intersection with Buena Vista Rd.	Gate	K-27	GA 207 968	Across Turrentine Rd 600m E. of its intersection with Boundary 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-28	GA 191 885	Across Whitson Rd 15m W. of its intersection with Cactus Rd.	Gate
K-5	GA 117 920	Across Shamanski Rd 25m N. of its 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-7	GA 109 937	Across Moore Rd 15m N. of its intersection with Bullseye Rd.	Cable	K-30	GA 190 890	Across un-named trail on right side of Cactus 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 Upatoi 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	O-9	101 962	600m N of Carmouche Rng on right side of Lorraine Rd	Gate
K-21	GB 139 027	Across the northern boundary range road Aprox 250m East of Cox Creek bridge.	Gate	O-18	093 979	800m N of Ware Rng Entrance on right side of Lorraine Rd	Gate

COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK Bradley Leaders Course Ware Range,	2a. DTG BEGIN 050800NOV13	2b. DTG END 071800NOV14	3. DATE PREPARED (YYYYMMDD) 20130801
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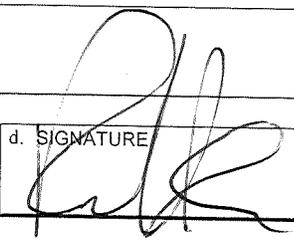
4. PREPARED BY		
a. LAST NAME Eastwood	b. RANK SFC	c. POSITION Branch Chief

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?
Conduct M2A3 Gunnery training.	Soldiers/Students conducting range operations.	H	Read and review risk assessment Update the risk assessment daily with consultation between cadre and chain of command. Ensure CLS and medevac vehicle are present.	M	MCoE Range and Terrain Regulation 350-19 1/29 IN policies on range operations	OIC RSO NCOIC Range Cadre	
			On-site coverage. Inventory CLS Bag and check operational readiness prior to 1st day of range operation. Ensure medics have a bee		IAW AR 385-63, policies and procedures for Firing Ammunition for Training MCoE PM 385-6-14		
			sting kit. Request and restock as necessary. Area coverage. Make face-to-face coordination with CLS. Review route to range (issue strip map if needed), conduct a commo		FM 4-25.11 1-29 IN policies on range operations FM 5-19		
			check (FM or handheld). CLS will brief route to next higher care. Review strip map to care facility AXP.		TC 21-306 FM 21-60		
			Review "9 Line Medevac Procedures". Brief all personnel where the helicopter landing site. RSO will identify Soldiers with medical problems that have the potential to impact				
			training. This includes minor illnesses, allergies, previous heat or cold weather injuries, or any other problems. Previous heat or cold weather injuries or those with severe allergies				

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 SUROWIEC, RICHARD J.	b. RANK LTC	c. DUTY POSITION BATTALION COMMANDER	d. SIGNATURE 

ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC-TIVE?
			will be marked with engineer tape on the left IR Velcro cover on the left shoulder of ACU top.				
	Soldiers suffer a Heat Illness during Training.	H	NCOIC will monitor the wet bulb and keep OIC and Range MG informed of heat category. Previous heat injuries will be marked with red tape or engineer tape on the left sleeve of the	M	MCoE Range and Terrain Regulation 350-19 1/29 IN policies on range operations	OIC RSO NCOIC Range Cadre	
			ACU. Once buttoned up in the vehicle; the crew will not exceed the work limites dictated by the Heat Category.		MCoE PM 385-6-14 FM 5-19 MCoE PM 40-14 TB Med 507	Medics CLS	
			Heat Categories will be enforced as follows: Heat Category 1 WBGT Index: 78-81.9 F Water intake: 1/2 quart/hour (minimum)				
			"Easy work: 1/2 qt./hr. no limit to work/rest ratio." "Moderate work: 1 qt./hr. no limit." "Hard work: 1 qt./hr, 40 min work/20 min rest."				
			Heat Category 2 WBGT Index: 82.0-84.9 F "Easy work: 1qt./hr, no limit." "Moderate work: 1 qt./hr, no limit."				
			"Hard work: 1 qt./hr, 30 min work/30 min rest." Heat Category 3 WBGT Index: 85.0-87.9 F "Easy work: 1 qt./hr, no limit."				
			"Moderate work: 1 qt./hr, no limit." "Hard work: 1 qt./hr, 30 min work/30 min rest." Heat Category 4 WBGT Index: 88.0-89.9 F				
			"Easy work: 1 qt./hr, no limit." "Moderate work: 1.25 qt./hr, 30/30." "Hard work: 1.25 qt./hr, 20/40." Heat Category 5				
			WBGT Index: 90 F and above. "Easy work: 1 qt./hr, no limit." "Moderate work: 1.25 qt./hr, 30/30." "Hard work: 1.25 qt./hr, 15/45."				

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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?
			Heat casualties will be treated as needed by the CLS on site and may be evacuated via evac vehicle or air MEDEVAC. During Heat Cat 3 and above all firing vehicles hatches				
			(except the driver) will be in the pop lock position and safety-locking lever will be in the lock position.				
			VCEs will have a source of water with them while evaluating a crew downrange. Before the crew begins the course, the VCE will maximize his time in the shade.				
			VCE's will refill his water source during AAR periods. All personell will eat 3 meals each day Student/crew in the turret will have a water accessible to them at all times while they are				
			waiting to fire. As crewmembers wait the ramp will be down & the driver's hatch will be open, when weapons are clear. Each crewmember will have a minimum of a				
			camelback/two full canteens at all times. In addition to camelback/two full canteens, each crew will have a minimum of one five gallon jug of water on the back of each firing vehicle.				
			When a vehicle is down range the BC will ensure all members on the vehicle are consuming water at all times				
			and report any heat situations to the tower. Students and crew members waiting to enter the vehicles will stay in the shade and drink water. A water buffalo will remain positioned				
			next to the range shed at all times. In the event that a water buffalo is not present, there will be additional water stored at the range shed.				
	Soldier suffers a Cold Illness during Training.	M	NCOIC will monitor the cold weather conditions and keep OIC and Range MG	L	FM 31-70 MCoE PM 385-6-14 FM 5-19 MCoE Reg 40-14	OIC RSO NCOIC Range Cadre	

RS

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?
			informed of cold weather situations. Previous cold weather injuries will be marked with blue tape on the left sleeve of the ACU. Cold weather casualties will be treated as		TB Med 508	Medics	
			needed by the CLS or Medic on site and may be evacuated via evac vehicle or air MEDEVAC. There will be a warming tent setup; the tent will be used for rotating				
			personnel in and out to keep warm IAW the weather report. The range shed will also be used as a warming point				
	Soldier suffers an eye Injury or Lose Hearing.	M	Educate Students on Dangers Provide and enforce use of protection RANGE NCOIC OR SAFETY OFFICER WILL:	L	1/29 Unit SOP FM 5-19 AR 385-10 MCoE PM 385-6-14	OIC NCOIC RSO Range Cadre	
			Brief Soldiers on the dangers of low-hanging branches. Ensure all Soldiers wear single hearing protection (CVC or earplugs).			Medics	
			Ensure extra hearing protection is available (see Supply NCO). Soldiers will wear hearing protection while maneuvering				
	Soldier Struck by Lightning.	M	downrange. OIC OR SAFETY OFFICER WILL: Suspend all training during electrical storms or IAW the Battalion Storm Plan	L	1/29 Unit SOP FM 5-19 AR 385-10 MCoE Reg 115-1	OIC NCOIC RSO Range Cadre	
			Brief Students on electrical storm plan and point out location for evacuation and accountability Ensure instructors understand their		MCoE PM 385-6-14	Medics CLS	
			individual responsibilities in case of an electrical storm. INSTRUCTORS WILL: Ensure that Students ground their individual				
			equipment and don their wet weather gear. Ensure that all Students move IAW the electrical storm plan. Take accountability of all Students once there.				

RS

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?
			Educate Students on dangers.				
			Have emergency supplies available to reduce outcome				
	Soldier bitten or stung by snakes or insects.	M	Brief Students of the various types of hazardous wildlife and instruct Students not to handle or harass the wildlife Identify Soldiers who are allergic to insects.	L	1/29 Unit SOP FM 5-19 AR 385-10 MCoE PM 385-6-14	OIC NCOIC RSO Range Cadre	
			Ensure that those soldiers have equipment to remedy themselves (bee sting kits, etc.) . Soldiers with severe allergies are marked with white engineer tape with red X.		AR 385-10	Medics	
			Brief All Wildlife to be left alone.				
	Soldier Falling or Tripping off a vehicle.	H	RANGE NCOIC OR SAFETY OFFICER WILL: Brief Students on tripping hazards, i.e. rocks, branches, etc.	M	1/29 Unit SOP FM 5-19 AR 385-10 MCoE PM 385-6-14	OIC NCOIC RSO Range Cadre	
			Brief Students to maintain 3 points of contact while on the vehicle and enforce PPE CADRE will ensure Students will maintain 3 points of contact while on the vehicle.		ATTP 4-33 TC 21-306 FM 21-60	Medics	
	Soldier injured lifting ammunition or equipment.	M	Range OIC/RSO will identify the hazard during the safety briefing. Personnel will work in group and use proper lifting techniques.	L	1/29 Unit SOP FM 5-19 AR 385-10 MCoE PM 385-6-14	OIC NCOIC RSO Range Cadre	
						Medics	
	Negligent discharge of weapon or weapon malfunction	M	Establish limit on weapon system orientation to reduce effects (within range limits, up and down range). Safety briefing will address possibility of accidental discharge or weapon malfunction.	L	1/29 Unit SOP FM 5-19 AR 385-10 MCoE PM 385-6-14	OIC NCOIC RSO Range Cadre	

RS

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?
			Range OIC will designate a clearing NCO who will ensure that all weapons are cleared and on electrical and manual safe prior to leaving the firing position and range.			Master Gunner RSO BC/VCE	
			Students/cadre/BC will ensure proper maintenance and services of weapons are conducted. Instructors will supervise.				
			Cadre will be on site during all firing. FLA and CLS will be on site at all times during firing.				
			Cadre will ensure weapons are oriented downrange at all times. Personnel trained on current MEDEVAC procedures.				
			Brief procedures on negligent discharge Crew will be directed by tower when to upload weapons systems				
	Soldier has a limb crushed by weapon.	M	RSO will identify the hazards during the safety briefing. Turret drive will be off when placing the weapon on manual safe.	L	1/29 Unit SOP FM 5-19 AR 385-10 MCoE PM 385-6-14	Master Gunner BC/VCE OIC NCOIC	
			Turret drive will be off prior to clearing the weapon. Combat override switch will not be used during training.		ATTP 4-33 TC 21-306	RSO Medics CLS	
			Turret travel lock will be engaged when entering/exiting the Turret. Cadre will ensure students adhere to 2, 3, and 4 above.				

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?
	Soldier hit by a vehicle.	H	Designated areas of the range will require ground guides. RSO will point out areas where ground guides are required during safety brief.	M	DODI 6055.4 1/29 Unit SOP FM 5-19 AR 385-10	OIC NCOIC RSO Range Cadre	
			Soldiers will adhere to the course speed at all times (5mph). Front and rear ground guides will be used in designated areas of the range. Maintain 50m between vehicles.		FM 21-60 TC 21-306 Safety Brief	Medics CLS BC/VCE Instructors	
			Ground guides during darkness will use chemlights or flashlights to guide vehicles.				
			Ground guides will remain an appropriate distance from vehicles day and night.				
	Hatch closes on Soldier.	M	All Soldiers will be familiar with hatch operation prior to deploying to the range.	L	1/29 Unit SOP FM 5-19 AR 385-10 MCoE 385-6-14	OIC NCOIC RSO BC/VCE	
			BC will ensure hatches have all required safety pins and operate properly. Additional instruction and supervision		FM 21-60 TC 21-306 Safety Brief	Medics CLS	
	Vehicle rolls over has damage or Soldier Injury.	H	Utilize permanent roads and tank trails Limit speeds to course speed limits Route recon to verify road conditions	M	1/29 Unit SOP FM 5-19 AR 385-10 ATTP 4-33	OIC NCOIC RSO BC/VCE	
			Vehicles will be only driven on flat range surfaces. These must be cleared by RSO.		FM 21-60 TC 21-306 Safety Brief	Medics CLS	
			All Students will have rehearsed rollover drills prior to the range. IAW the Battalion rollover policy.				
			Range OIC or RSO will recon the entire course road to ensure suitability and identify hazards.				

RS

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?
			BC will have commo at all times with the driver				
	Vehicle strikes another vehicle.	M	Soldiers will ground guide vehicles Cadre will ensure vehicle separation is maintained at all times. (50m minimum)	L	DODI 6055.4 1/29 Unit SOP FM 5-19 AR 385-10	OIC NCOIC RSO BC/VCE	
			Barrels will be placed to 30 mils when passing another vehicle. Vehicles will keep a minimum distance of 50		FM 21-60 TC 21-306 Safety Brief		
			meters between each other while on movement during periods of clear/unrestricted visibility. Vehicles will keep a minimum distance of 100 meters between each other during periods				
			of limited visibility. Cadre, BC's, or Drivers will halt movement when visibility conditions are severely restricted, and service drives will be used				
	Firing incorrect ammunition for the BFV.	M	(DUST/WHITEOUT CONDITION) Match actual ammunition on the ground by DODIC to DA-581 and range requirement. Ensure all ammunition fired is annotated on	L	1/29 Unit SOP FM 5-19 AR 385-10 MCoE 385-6-14	OIC NCOIC RSO BC/VCE	
			FB Form 465 Firing/ Non-Firing Data: A131/7.62 tracer Ball Mix A940/25mm AP TNG M910 A976/25mm TP-T LKD M793				
	Vehicle Ramp crushed Soldier.	H	All Soldiers will be familiar with ramp operations prior to deploying to the range.	M	1/29 Unit SOP FM 5-19 AR 385-10 MCoE 385-6-14	OIC NCOIC RSO BC/VCE	
			Ground guides and BC's, or drivers will ensure that ramps are clear before raising and lowering. Drivers will only raise or lower when directed		FM 21-60 TC 21-306 Safety Brief	Medics CLS	

RS

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?
	Soldier hits head or is struck by equipment in crew compartment.	H	BC's will ensure all equipment is properly stowed and secured IAW vehicle load plan.	M	1/29 Unit SOP FM 5-19 AR 385-10 MCoE 385-6-14	OIC NCOIC RSO BC/VCE	
			BC's will ensure that all Soldiers wear seatbelts and ACH or CVC helmets.		Safety Brief	Medics CLS	
	Soldier crushed by vehicle.	H	Use of reflective markers and lights to control movement. Soldiers will adhere to course speed limits at all times.	M	1/29 Unit SOP FM 5-19 AR 385-10 MCoE 385-6-14	OIC NCOIC RSO BC/VCE	
			Front and rear ground guides will be used in areas designated by the RSO during the safety brief.		DODI 6055.4 FM 21-60 TC 21-306 Safety Brief	Medics CLS Instructors	
			BC's will ensure correct following distances are maintained. (50m minimum) Ground guides during darkness will use chemlights or flashlights to guide vehicles.				
			Ground guides will remain an appropriate distance from vehicles, day and night. Admin areas will be away from vehicle lines and movement areas.				
			Mark troop areas with engineer tape day and night. Proper clearing and remedial action for 25MM				
	Soldier Injured with 25MM ammunition detonating.	M	Proper clearing and remedial action for 25MM main gun ammunition. Range RSO or OIC will cover that there is a possibility that the 25MM gun can double feed	L	1/29 Unit SOP FM 5-19 AR 385-10 MCoE 385-6-14	OIC NCOIC RSO BC/VCE	
			while using M910 ammunition. If malfunctions are not properly cleared, multiple round initiations may occur. To avoid this from occurring the following will be enforced.		MCoE 350-19	Medics Master Gunner	
			Ensure that rounds are properly aligned in the links. Ensure M910 rounds that are missing nose caps are removed from link. Do not remove serviceable nose caps from				

RS

ITEMS 5 THROUGH 12 CONTINUED:

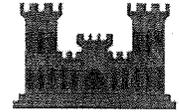
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
			any rounds. Malfunctions that cannot be cleared by pushing the misfire button and cycling the gun back to SEAR must be cleared by removing the				
			feeder and cleared by inspecting the chamber for unfired ammunition by the RSO or Master Gunner. If the straight drive shaft is dropped for any				
			reason, the feeder must be removed from the receiver and the weapon must be visually cleared by the RSO or Master Gunner. The RSO or Master Gunner clear all 25MM				
			guns.				
	Round fired out of Range Fan/Impact Area.	M	Each Table will be proofed from a BFV, in step with the table script, to ensure targetry presented is correct and safe, as well as within the range fans.	L	1/29 Unit SOP FM 5-19 AR 385-10 MCoE 385-6-14	Master Gunner NCOIC RSO BC/VCE	
			Master Gunner along with the RSO will verify that range limits are identifiable from both the BFV and by the naked eye from each firing point.		MCoE Reg 350-19		
			Master Gunner will work with Range Control to ensure that the range markers have thermal panels that are working correctly.				
			The BFV will be marked at night using green chemlights on the back of the turret on each side and a blue chemlight in the center to show proper turret orientation.				
	Soldier Injured during Familiarization Fire.	M	The BFV vehicle fires only within the firing position then switches to Electrical/Manual Safe after engagements. Cadre rides in the turret conducting	L	1/29 Unit SOP FM 5-19 AR 385-10 MCoE 385-6-14	Master Gunner NCOIC RSO BC/VCE	
			VCE procedures. Zeroing and proofing the range performed by the cadre followed by safety brief. Berm drills conducted during engagements		MCoE Reg 350-19	Medics CLS	

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?
			only. Completion of Bradley firing, weapon systems are put on Eletrical/Manual Safe. Cleared by the RSO.				
			Crews will identify left and right limits of range fans. Identify left and right limits of range for each crew during night fire.				
			Limit traffic on/or around firing line. Mark back of turret with chemlights to identify turret orientation during night fire.				
	Soldier injured in during a Tornado/Severe Weather	M	OIC and RSO will keep current weather conditions updated and notify all range personnel and students of any changes. All personnel on range will notify or alert	L	1/29 Unit SOP FM 5-19 AR 385-10 MCoE 385-6-14	Master Gunner NCOIC RSO BC/VCE	
			any Range Cadre or Range Personnel of visual of severe weather or tornado.		MCoE Reg 115-1		



RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



Date Submitted: 8/1/2013

EMD Number: 1321315

Project#: Unknown

Project Title: BRADLEY GUNNERY

Description of proposed action:

FAMIALIZATION BASELINE FIRE

Project Location:

WARE RANGE, FT BENNING

Amount, Description, Location of Disturbance/Digging:

None

Number of Personnel:

50-60

Type of Ammunition:

25MM, 7.62MM Live

Number/Types of Trees:

None

Size of Project Area:

Duration of Action: Start: 10/1/2013

Stop: 9/30/2014

Proponent: KEVIN THOMPSON 706-544-6519

Organization/Unit: 1-29

Number/Types of Vehicles:

Number of vehicles:10

Types of vehicles:M2A3

No-Vehicles will be going off road.

DECISION: Concur with conditions

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

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

REC APPROVED THROUGH 30 SEPTEMBER, 2014

Noise

Conditions:

Ellis Leeder (706 545 2400), 8/2/2013

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

Natural Resources - RCW

None

Michael Barron (706 544 7080), 8/1/2013

Cultural Resources - Archeological

None

Edward Howard (706 545 1898), 8/2/2013

EMD Number: 1321315

IJO#

Project Title: BRADLEY GUNNERY

Hazardous Materials/Waste

Conditions:

Ted Williams (706 545 7579), 8/6/2013

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), 8/5/2013

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).

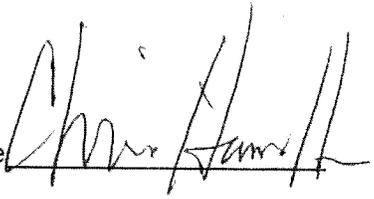
General SPCC Requirements: Ensure all hazardous materials are properly storage to prevent spill/discharges, to meet safety requirements for storage, and that containers are not exposed to the weather. Have adequate spill response supplies available during exercise for any spills that may likely occur. 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
NEPA Program Manager

Date 7 AUG 2013

Signature 

Christopher E. Hamilton, PhD
EPMB Chief

Date 7 Aug 13

