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:** 17 June 2015 LOG# 6-6-15 **Range:** Brooks **Title:** Mounted Machine Gun Gunnery **Problem No:**
THRU: 3RD BDE, 3RD ID FORT BENNING, GA 31905	**FROM:** S3, 3RD BDE, 3RD ID FORT BENNING, GA 31905

SECTION I, TYPE OF TRAINING

☑ a. Live Fire ☐ b. Non-live Fire CP/Controller Coordinates: GA 1057 9937

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

Coordinates	Type	Model/DODAC	Size of Charges

SECTION III, WEAPONS/AMMUNITION REQUESTED

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
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:

- ☑ **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: ROBERT B. ROLLINS, SSG, USA Robert Rollins	Name/rank of Major Unit S3/Commander: CHRIS B. MANGLICMOT, MAJ, AR

SECTION VI, FOR RANGE DIVISION USE **DATE:** 14 July 2015

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

a. Roadblocks to be closed:	See Road Block Enclosure
b. Road(s) to be closed/road barrier locations:	
c. Remarks:	Laser warning signs will be in place prior to use.
d. This approval expires: Indef	

Chief, Range Division
Directorate of Plans, Training, Mobilization and Security Bradley S. Tesch

Brooks Range 3RD BDE (LOG# 6-6-15) Mounted Machine Gun Gunnery Weapons/Ammo List Enclosure				
Firing Positions	**Weapons**	**Ammunition**	**Left Limit Deg's, Grid Az**	**Right Limit Deg's, Grid Az**
FP 1Start:1055 9929 to Stop: 1060 9934	M2, M240	.50 cal Blank/Ball/Tracer 7.62mm Blank/Ball/Tracer	1965	2490
FP 2 Start:1060 9934 to Stop: 1064 9939	M2, M240	.50 cal Blank/Ball/Tracer 7.62mm Blank/Ball/Tracer	2045 2090	2470 2665
BP 2:1068 9938	M2, M240	.50 cal Blank/Ball/Tracer 7.62mm Blank/Ball/Tracer	2140 1765	2495 2720
FP 3 Start:1069 9940 to Stop: 1076 9934	M2, M240	.50 cal Blank/Ball/Tracer 7.62mm Blank/Ball/Tracer	2135 1645	2530 2720/2460
Baseline (zeroing): 1064 9939 to 1055 9929	M2, M240	.50 cal Blank/Ball/Tracer 7.62mm Blank/Ball/Tracer	2050 2340	2365 2630

Brooks Range, 3rd ID Mounted Machine Gun Gunnery (Log #6-6-15) Target List Enclosure			
Firing Positions	**Weapons**	**Ammunition**	**Targets**
FP 1 Start: 1055 9929 to Stop: 1060 9934	M2	.50 cal Ball/Tracer	202 - 223, M1, M2.
FP 2 Start: 1060 9934 to Stop: 1064 9939	M2 M240	.50 cal Ball/Tracer 7.62mm Ball/Tracer	201, 202, 206 - 223, M1, M2. GRP: 1, 2, 4, 6, 7.
BP 2: 1068 9938	M2 M240	.50 cal Ball/Tracer 7.62mm Ball/Tracer	206 - 223, M1, M2. 206, 207. GRP: 1, 3, 4, 6, 7.
FP 3 Start: 1069 9940 to Stop: 1076 9934	M2 M240	.50 cal Ball/Tracer 7.62mm Ball/Tracer	206 - 223, M1, M2. GRP: 1, 3, 4, 6, 7.
Baseline (Screening): 1064 9939 to 1055 9929	M2 M240	.50 cal Ball/Tracer 7.62mm Ball/Tracer	3 Panels @ 800 Meters. 204.

NOTE: No .50 cal firing at Group Targets.

DEPARTMENT OF THE ARMY
HEADQUARTERS, 3rd INFANTRY BRIGADE COMBAT TEAM
3RD INFANTRY DIVISION
9195 KELLEY HILLFORT BENNING, GEORGIA 31905

AFZP-VI-T **17 June 2015**

MEMORANDUM FOR: Director, Plans, Training, Mobilization and Security, U.S. Army Garrison, Fort Benning, GA. 31905

SUBJECT: Concept of Operation for Brooks Range.

1. PURPOSE: The purpose of this range is to conduct HMMWV 1114's Table III-VI at Brooks Range in order to sustain Direct Fire Platform Crews on all mounted machine gun platforms.

2. APPLICABILITY: This memorandum applies to all 3rd BDE units/ activities using Brooks Range. 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. Training objectives: Weapons and ammunition used.

a. M2 .50 Cal Ball/Tracker link
b. M240B/C 7.62/Ball/Tracer link

4. REFERENCES:

a. Army Regulation 385-63 and DA PAM 385-63, Range Safety
b. Army Regulation 350-1, Army Training
c. MCOE Regulation 350-19, Range and Terrain Regulation
d. FM 3-23.30, Grenade and Pyrotechnics Signals
e. TM 9-1300-206, Ammunition and Explosives Standards
f. TC 3-20.31, Training and Qualification, Crew
g. TC 4-11.46, Convoy Protection Platform Gunnery
h. FM 3-20.98, Reconnaissance Scout Platoon
i. FM 23-65, Browning Machine Gun Caliber .50 HB M2
j. Crew-served Machine Guns 5.56mm and 7.62mm

5. GENERAL: Brooks Range supports live fire exercises for crew level calibration and training.

6. MEDICAL: Medical personnel and equipment on site will be IAW unit SOP and Deliberate Risk Assessment Worksheet risk level for the training being conducted. Frontline Ambulance (FLA) will be located IAW Commander / OIC guidance and not adjacent to the mess area. The Medical Air Evacuation (MEDEVAC) point will be IAW MCOE Regulation 350-19. All incidents will be reported to Brigade Headquarters, MCOE Safety IAW AR 385-10 and Alpha Base. The emergency cease fire signal and E-911 MEDEVAC procedures will be briefed during the range safety brief. All vehicles will be cleared off the execution line by the RSO or Master Gunner. An FLA with qualified medics will be present throughout the duration of the training exercise.

7. VEHICLE CONTROL: No Personally Owned Vehicles (POVs) are authorized downrange. All POVs are to be parked in areas designated by range personnel on Brooks Range. The speed limit on the range is 5mph. No parking is allowed in front of the range control tower, anywhere down-range, or in front of any building on the range. Administrative vehicles may be used to deliver rations to the mess area but will be moved immediately after the meal is finished and the area has been properly cleaned.

8. AMMUNITION POINT: There is an ammunition point provided for draw / turn in. No open flames will be allowed within 50 feet of each ammunition point. Two 10 pound bicarbonate fire extinguishers will be available at all times at the ammunition point. Ammunition Non- Commissioned Officer (NCO) will be Ammo Handler certified and will control the issue of live ammunition. Ammunition will be monitored at all times. All ammunition will be issued by, turned in to, and logged by the Ammunition NCO.

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

a. The unit will have in its possession the approved 350-19-1-E-R, operational overlays, this memorandum, approved RFMSS request summary, and unit Deliberate Risk Assessment Worksheet signed by the appropriate risk level authority, and a daily risk assessment required before live fire execution on Brooks Range. The OIC will call Alpha Base and request permission to occupy the range complex. Appropriate overlays will be posted upon arrival. The OIC and RSO will then receive a briefing from the range site supervisor.
b. The unit will maintain FM communications with Alpha Base at all times.
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. Firing vehicles will take all commands from the tower or controlling element and will not load weapons until ordered to do so.
e. Unit will proof the range before firing
f. The Unit leadership must assign personnel to perform special duties such as road guards and firefighting details IAW this guide, FB Form 350-19-1-E-R guard listing, and applicable Fort Benning regulations.

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

a. The OIC controls the exercise, maintains efficient throughput, and maintains required communications.
b. The NCOIC supervises all details and controls the movement of vehicles and personnel.
c. The RSO ensures that crews handle misfires IAW safety regulations, observes for any safety violations, and clears each firing vehicle at the end of each exercise.
d. The Master Gunner ensures that the range adheres to the appropriate gunnery table, ensures that crews boresight and zero correctly, conducts onsite remedial training as needed, supervises Vehicle Crew Evaluators (VCEs), helps safety personnel clear weapons when required, helps maintenance personnel identify and correct malfunctions, and helps commander determine and verify alibi conditions. Mounted Machine Gun Tables II - VI.

****HMMWV will conduct dry and live gunnery runs.****

11. EXECUTION OF THE EXERCISE: Day 1 (zeroing) The crews will conduct small arms zero, fire at one of the (two) machine gun screening panels at 500 meters for the M240C and fire at one of the (two) machine gun screening panels at 800 meters for the .50 caliber, all from the base line. Firing crews will clear all weapons systems once complete and back their vehicle off the base line to be cleared by the Safety NCO in the vehicle, who will report this to the tower. The crew will elevate all weapons systems once they have been cleared by the Safety NCO.

**Request Target Maintenace have two machine gun zeroing panels at 500 meters for M240C and two more machine gun panels at 800 meters for .50 cal. All emplaced to engage from the Baseline. **

FP 1, FP 2, FP 3 will be clearly marked with VS-17 panel Day and IR and or Color Chemlight night* (Start and Stop)

Day 2 will be dry fire day for .50 cal and 240B Gunnery same scenario as below. And May transition to live fire during the day and night.

Day 2, 3, 4 will be the HMMWV M1114 .50cal and M240B Gunnery days.(Day time Live Fire) Crews will lock and load at FP2 start, on command from the tower. Firing crews will confirm zero at the 800 meter machine gun panel for .50cal. or 500 meter machine gun panel for M240B one at a time from the baseline. Firing crew will clear all weapons systems once complete and back their vehicle off the base line to be cleared by the Safety NCO in the vehicle, who will report this to the tower. The crew will elevate all weapons systems once they have been cleared by the Safety NCO. After all crews have completed zeroing they will line up on the course road to the right of the range, the first firing crew will move to FP2 start facing north east. As prompted from the tower to lock and load weapon system on the base line, the first engagement the crew will move in FP2 start come to a short halt within the FP2 stop and engage

(see target list). The crew will be prompted to put weapon on safe and move into BP2. The second engagement will be from BP2 crew will engage (see target list). The third engagement will be from BP2 crew will engage (see target list). The crew will be told by the tower to clear and elevate weapon systems. The vehicle Safety NCO will inspect the weapon system and report to tower. The crew will then be told by tower to FP2 start and switch crews around and start again. This will continue until all personnel have fired. (**Night time Live Fire**) using AN/PAS13B's, commanded by the tower crews will lock and load weapon systems on the baseline. Firing crews will confirm zero at the 800 meter machine gun panel for .50cal. or 500 meter machine gun panel for M240B one at a time from the baseline. Firing crew will clear all weapons systems once complete and back their vehicle off the base line to be cleared by the Safety NCO in the vehicle, who will report this to the tower. The crew will elevate all weapons systems once they have been cleared by the Safety NCO. After all crews have they will line up on the course road to the right of the range, the first firing crew will move to FP2 start facing north east. As prompted from the tower to lock and load weapon system, the first engagement the crew will move in FP2 start come to a short halt within the FP2 stop and engage (see target list). The crew will be prompted to put weapon on safe and move into BP2. The second engagement will be from BP2 crew will engage (see target list). The crew will be told by the tower to clear and elevate weapon systems. The vehicle Safety NCO will inspect the weapon system and report to tower. The crew will then be told by tower to move to FP2 start and switch crews around and start again. This procedure will be repeated for each crew until all personnel have fired.

****Request Targets be heated for the thermal sights, and boresight panels.****

12. CLOSURE OF THE RANGE:

a. The OIC notifies Alpha Base that firing has terminated, debriefs unit personnel, and ensures that clearing of the range and training areas is completed to local regulation and SOP standard
b. The NCOIC supervises ammunition and target details and ensures that range facilities have been policed.
c. The Master Gunner updates DA Form 2408-4 for each vehicle.
d. The Ammunition NCO ensures that only authorized personnel remove munitions from the range and prepares the residue documentation required by the ammunition supply point.

13. SAFETY:

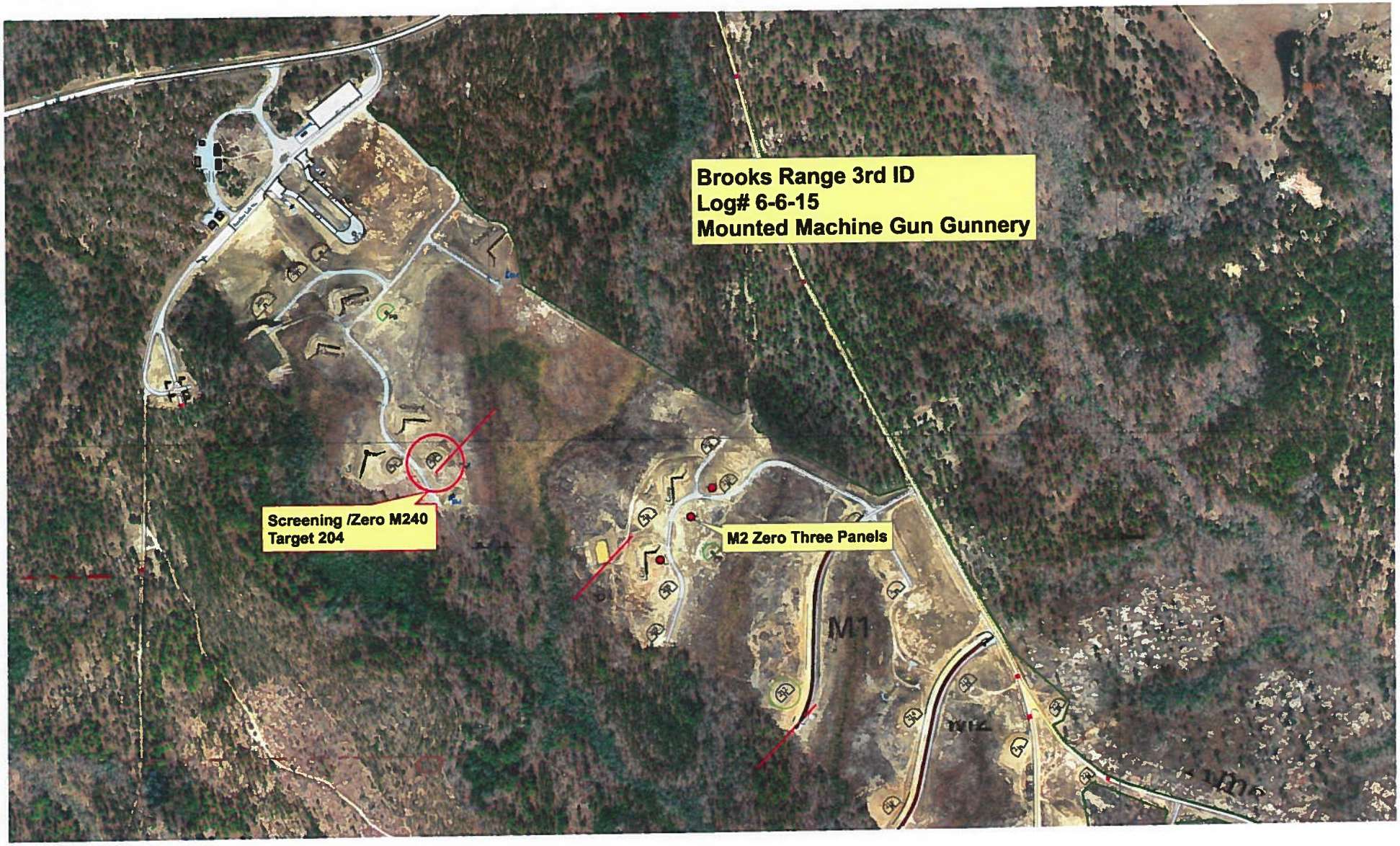
1. Uniform will be IAW unit SOP.
2. Ammo NCO will guard ammunition stored at the ammunition holding area (AHA) off the firing line and control its issue/turn-in keeping it guarded at all times.
3. Combat life saver will be on-sight at all times with a dedicated vehicle clearly marked and will provide overhead cover

4. Weapons will be cleared by visual inspection on and off the firing line by the RSO after the last engagement.
5. Weapons will be on safe when not engaging targets.
6. Signal to load, fire and clear weapon will be controlled by the tower via FM.
7. During firing anyone on the range observing an unsafe act can call a ceasefire by using the hand and arm signal and / or a vocal command of ceasefire.
8. Crews will be receive the required amount of ammo.
9. All unused ammo will be turned-in to the AHA upon completion of firing.
10. Head-space and timing for the M2 will be checked and set prior to firing, and checked by the vehicle safety NCO.
11. When and incident occurs on the range regardless of injury or not the OIC/RSO will immediately report it to Alpha Base and the using unit's higher headquarters.
12. The unit will follow the 9 Line MEDEVAC procedures for serious injuries.
13. Delinking, relinking, and firing of said ammo is not authorized.
14. Warning laser signs posted, and RSO additional duty is the Laser Safety Officer. The RSO will ensure that there are no personnel down range or in front of any laser that is in operation at any time.
15. Hearing and eye protection will be worn during training.
16. Vehicle weapons control status will be displayed in accordance with enclosure one.
17. All vehicles will have two radios on each vehicle. One radio will be on fire net and the other on admin net, for a lost commo plan. The third lost commo plan at night is to flash a light from the tower at the crew, and the day RSO will wave a red flag near the vehicle.

14. The point of contact for this memorandum is SSG Rollins, Robert and can be reached at (706)544-3865 or robert.b.rollins1.mil@mail.mil

CHRIS MANGLICMOT
MAJ, AR
Brigade Operations Officer


Brooks Range 3rd ID
Log# 6-6-15
Mounted Machine Gun Gunnery
Tower
BP
FP
SR
20
Bld


Brooks Range 3rd ID
Log# 6-6-15
Mounted Machine Gun Gunnery
Screening /Zero M240
Target 204
M2 Zero Three Panels
M1

Brooks Range, 3rd ID (Log # 6-6-15) Mounted Machine Gun Gunnery, 01 July, 2015

#	GRID	LOCATION	TYPE
K-2	GA 163 883	Across Box Springs Rd 125m N. of its intersection with Buena Vista Rd.	Gate
K-3	GA 153 894	Across entrance road leading to Concord OP 250m N. of its intersection with Buena Vista Rd.	Gate
K-5	GA 117 920	Across Shamanski Rd 25m N. of its intersection with Buena Vista Rd.	Gate
K-7	GA 109 937	Across Moore Rd 15m N. of its intersection with Bullseye Rd.	Cable
K-8	GA 099 947	Across Bulls Eye Rd 50m E of its intersection with Lorraine Road.	Gate
K-9	GA 103 921	Across Buena Vista Rd 40m E of the intersection with Moore Rd (Road Guard Location)	Gate
K-9A	GA 106 919	Across tank trail 200m W of the Upatoi Creek ford site.	Gate
K-10	GA 118 920	Across Buena Vista Rd at K-5 road block.	Gate
K-11	GA 105 927	Across Moore Rd 20m N. of its intersection with Audemarde Trail. Entrance to Terry Demo Rng. (Road guard location)	Gate
K-12	GA 104 988	Across Old Lorraine Road 600m S of the tower on Brooks Range.	Gate
K-13	GA 112 943	Across Moore Rd 680m N. of its intersection with Bullseye Rd.	Gate
K-14	GA 113 998	Across Moore Rd 10m S. of its intersection with Lorraine 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-16	GB 190 003	Across Rinehart Rd 130m W. of its intersection with Box Springs Rd.	Gate
K-16A	GA 172 989	Across Rinehart Rd 20m S. of its intersection with the northern boundary range road.	Gate
K-16B	GA 171 990	Across un-named trail 20m S. of its intersection with the northern boundary range road.	Gate
K-17	GB 116 013	Across unnamed trail 15m E. of Moore Rd and 300m N. of Ruth Range tower.	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-20	GB 141 021	Across unnamed trail 550m S of the northern boundary range road.	Cable
K-21	GB 139 027	Across the northern boundary range road Aprox 250m East of Cox Creek bridge.	Gate

#	GRID	LOCATION	TYPE
K-26	GA 201 949	Across Boundry Road 1800m S of its intersection with Turrentine Road	Gate
K-27	GA 207 968	Across Turrentine Rd 600m E. of its intersection with Boundary Rd.	Gate
K-28	GA 191 885	Across Whitson Rd 15m W. of its intersection with Cactus Rd.	Gate
K-29	GA 189 888	Across un-named trail on left side of Cactus Range 300m W of Cactus Road	Gate
K-30	GA 190 890	Across un-named trail on right side of Cactus Range 250m W of Cactus Road.	Gate
K-32	GA 192 915	Across Shamanski Road 35m W of its intersection with Cactus Rd.	Gate
K-36	GA 163 883	Across Buena Vista Rd 50m W. of its intersection with Box Springs Rd. (Road guard location).	Gate
K-36A	GA 163 882	Across Tank Trail 50m W. of its intersection with Box Springs Rd.	Gate
K-38	GA 201 941	Across unnamed trail 35m W. of its intersection with the east boundary road. Permanently closed.	Gate
K-39	GA 202 949	Across unnamed trail 15m W. of its intersection with the east boundary road. Permanently closed.	Gate
K-40	GA 174 908	Across Box Springs Rd 30m S. of Pine Knot Creek.	Gate
K-41	GA 192 944	Across Kennesaw Trail 30m W. of its intersection with Box Springs Rd.	Gate
K-42	GA 193 944	Across Box Springs Rd 10m N. of its intersection with Cactus 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-44	GA 113 955	Across Moore Rd on the N. side of Carmouche Range maneuver box.	Gate
K-45	GA 115 961	Across Moore Rd 300m S. of its intersection with the old Ware Range course road.	Gate
K-46	GA 119 979	Across Moore Rd 725m S. of its intersection with Americo Trail	Gate
K-47	GA 176 963	Across Turrentine Rd 1000m W. of mover 4 on Hastings Range	Gate
K-50	GA 195 988	Across Box Springs Rd 60m N. of its intersection with the northern boundary range road.	Cable
O-9	GA 101 962	Across unnamed trail 10m E of its intersection with Lorraine Rd.	Gate
O-18	GA 093 979	800m N of Ware Rng Entrance on right side of Lorraine Rd	Gate

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

DELIBERATE RISK ASSESSMENT WORKSHEET

1. MISSION/TASK DESCRIPTION	2. DATE *(DD/MM/YYYY)*
Unstabilized Gunnery	19062015

3. PREPARED BY

a. Name (Last, First Middle Initial)	b. Rank/Grade	c. Duty Title/Position
Rollins, Robert B.	SSG	Brigade Master Gunner

d. Unit	e. Work Email	f. Telephone *(DSN/Commercial (Include Area Code))*
3RD BDE, 3RD ID	robert.b.rollins1.mil@mail.mil	706-544-3865

g. UIC/CIN *(as required)*	h. Training Support/Lesson Plan or OPORD *(as required)*	i. Signature of Preparer
WAR4AA		ROLLINS.ROBERT.BRUCE.1158150952 Digitally signed by ROLLINS.ROBERT.BRUCE.1158150952 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=ROLLINS.ROBERT.BRUCE.1158150952 Date: 2015.06.19 14:16:04 -04'00'

Five steps of Risk Management: (1) Identify the hazards (2) Assess the hazards (3) Develop controls & make decisions (4) Implement controls (5) Supervise and evaluate *(Step numbers not equal to numbered items on form)*

	4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL

	4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
+ -	Conduct unstabilized Gunnery	Negligent Discharge	H	1. Prior to training Soldiers will receive a detailed safety brief outlining when they will be allowed to load and unload weapons, proper weapons posture while handling weapons on the range, and when they will be able to receive ammo. Soldiers will not receive ammo until they enter the firing line. 2. All Safeties will ensure weapons are treated as if they are loaded at all times and ensure Soldiers maintain muzzle awareness. 3. All Safeties will ensure all weapons are kept on safe. Weapons will only be on FIRE when the Soldier is prepared to engage a target. Safeties will supervise Soldiers while they are firing to ensure correct weapons posture and orientation. 4. Range OIC and Safety NCO will go to a self-imposed Check-Fire during accidents or injuries due to weapons fire. 5. Any Soldier identified as a risk will be immediately removed from training, retrained and reinserted into training. 6. Any Soldier who has a negligent discharge will be removed from training, retrained, and reinserted into training. 7. RSO will visually observe Soldiers perform weapons clearing procedures in accordance with MCOE REG 350-19. 8. OIC will ensure medics are on site to perform immediate aid if needed.	How: Safety brief Leader involvement Rehearsals Continuous/direct supervision Who: OIC/RSO NCO Supervision Range Safeties Individual	M

	4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
+ -	Conduct: unstabilized Gunnery	Fratricide	H	1. Lane Safeties will ensure weapons are pointing down range when moving on and off the range. 2. Safeties will ensure weapons are on safe, and fingers are out of the trigger well. 3. Soldier will conduct dry and blank runs prior to conducting a live fire exercise to ensure Soldiers are proficient in the execution of firing their weapons at identified targets. Correct muzzle orientation, and weapons status will be emphasized during dry runs. Soldiers who do not demonstrate proficiency during training will not proceed to live fire exercise. 4. Heightened awareness will be maintained throughout live fire exercise and zero tolerance of negligent discharges will be enforced.	How: Range Safety Brief Leader involvement Rehearsals Continuous/direct supervision Who: OIC/RSO NCO supervision Range Safeties Individual	M
+ -	Conduct: unstabilized Gunnery	Ammunition	M	Ammo points will be under positive control of the ammo NCO.	How: Range Safety Brief Leader involvement Rehearsals Continuous/direct supervision Who: OIC/RSO NCO supervision Range Safeties Ammo NCOIC	L

	4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
+ -	Conduct: unstabilized Gunnery	Heat	H	The Marne Standard uniform will be enforced. Hydration source will be worn. Soldiers who have had a previous heat injury will be identified prior to the training, and will be checked periodically by leaders and peers. OIC will ensure water buffalo is on site, and parked under shade. Weather will be monitored by RSO cell phone and Radio communication with Battalion Staff Duty.	How: Safety Brief Leader involvement Inspections Continuous/direct supervision PCC/PCI's Who: OIC/RSO NCO supervision Buddy checks Leader checks Range Safeties Individuals Medic	M
+ -	Conduct: unstabilized Gunnery	Severe Weather	M	In the event of severe weather such as lightning Soldiers will discontinue firing and move to the designated lightning protection area. If none is available, soldiers will ground their gear, spread out and get in a crouching stance until the area is clear of severe weather.	How: Leader involvement Safety brief Continuous/direct supervision Who: OIC/RSO Leader supervision	L
+ -	Conduct: unstabilized Gunnery	Hearing loss	M	Soldiers will wear hearing protection when firing ammunition. Additional earplugs will be available through the medics and Soldiers will be notified of their existence.	How: Safety Brief Leader involvement/ leader checks PCC/PCI's Enforce buddy checks Who: OIC/RSO Safeties NCO supervision Buddy system	L

	4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
+ -	Conduct: unstabilized Gunnery	Eye Injuries	L	All Soldiers will wear ballistic glasses at all times while on Range.	How: Safety Brief Leader involvement/ leader checks PCC/PCI's Enforce buddy checks Who: OIC/RSO Safeties NCO supervision Buddy system Individual MEDIC	L
+ -	Conduct: unstabilized Gunnery	Minor Injuries/Twisted Ankles	L	Walk through of range prior to any movement to identify potential hazards and to make sure all grass/shrubbery is cleared.	How: Safety Brief Leader involvement/ leader checks Who: OIC/RSO Safeties NCO supervision Individual MEDIC	L
+ -	Conduct: unstabilized Gunnery	Shooting out of Range fan	M	Soldier will be briefed on their right and left range limits of each firing point prior to movement to the line. The Lane Safety will ensure that all weapons are kept within the range fans.	How: Safety Brief Leader involvement/ leader checks PCC/PCI's Who: OIC/RSO Safeties NCO supervision	L

	4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
+ -	Conduct: unstabilized Gunnery	Environmental Considerations: Trash, POL, latrines, MRE heaters	L	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. All open MRE heaters will be expended prior to clearing the range.	How: Safety Brief Leader involvement PCC/PCI's Who: OIC/RSO NCO supervision	L
+ -	Conduct: unstabilized Gunnery	CASEVAC/MEDEVAC to hospital	M	OIC will contact E911 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. The OIC will call in a 9-line MEDEVAC through the Range Control net in order to coordinate a medical exchange. The OIC will evacuate all serious injuries by air by calling a 9-line MEDEVAC through the Range Control net.	How: Safety Brief PCC/PCI's/Rehearsal Who: OIC/RSO MEDIC	L
+ -	Conduct: unstabilized Gunnery	Animal bites and stings	L	Soldiers will be advised not to chase or aggravate animals. Personnel who are allergic to stings will be identified prior to the operation; leaders will ensure that these individuals carry sting kits to prevent anaphylactic shock.	How: Safety Brief Leader involvement PCC/PCI's Who: OIC/RSO NCO supervision	L

	4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
+ -	Conduct: unstabilized Gunnery	Fire on the Range	H	1. Soldiers will only smoke in designated smoke break areas. 2. The OIC will take the following precautions: (a) 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. (b) 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. (c) Exceptions may be granted to that training which is most critical to unit mission. (d) When a fire danger class 5 is reached, the use of all incendiary type ammunition will cease	How: -Safety Brief -A Fire Suppression Kit assessable on range with Shovels and Rakes -Range Control Radio Monitored -Appointed Marshall NCO w/fire suppression detail Who: OIC/RSO Fire Warden	M

	4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
+ -		Fire on the Range	H	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. 3. 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. 4. 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. A. 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	How: Safety Brief A Fire Suppression Kit assessable on range with Shovels and Rakes Range Control Radio Monitored Appointed Marshall NCO w/fire suppression detail Who: OIC/RSO Fire Warden	M

10. OVERALL RESIDUAL RISK LEVEL *(All controls implemented)*:

☐ EXTREMELY HIGH ☐ HIGH ☒ MEDIUM ☐ LOW

11. OVERALL SUPERVISION PLAN AND RECOMMENDED COURSE OF ACTION

12. APPROVAL OR DISAPPROVAL OF MISSION OR TASK ☒ Approve ☐ Disapprove

a. Name (Last, First, Middle Initial)	b. Rank/Grade	c. Duty Title/Position	d. Signature of Approval Authority
Simmering, Michael J.	COL	Brigade Commander	

e. Additional Guidance:

Risk Assessment Matrix

Severity *(expected consequence)*		Probability *(expected frequency)* A — **Frequent:** Continuous, regular, or inevitable occurrences	B — **Likely:** Several or numerous occurrences	C — **Occasional:** Sporadic or intermittent occurrences	D — **Seldom:** Infrequent occurrences	E — **Unlikely:** Possible occurrences but improbable
Catastrophic: *Mission failure, unit readiness eliminated; death, unacceptable loss or damage*	I	EH	EH	H	H	M
Critical: *Significantly degraded unit readiness or mission capability; severe injury, illness, loss or damage*	II	EH	H	H	M	L
Moderate: *Somewhat degraded unit readiness or mission capability; minor injury, illness, loss, or damage*	III	H	M	M	L	L
Negligible: *Little or no impact to unit readiness or mission capability; minimal injury, loss, or damage*	IV	M	L	L	L	L

Legend: **EH** - Extremely High Risk **H** - High Risk **M** - Medium Risk **L** - Low Risk

13. RISK ASSESSMENT REVIEW *(Required when assessment applies to ongoing operations or activities)*				
a. Date	**b. Last Name**	**c. Rank/Grade**	**d. Duty Title/Position**	**e. Signature of Reviewer**

14. FEEDBACK AND LESSONS LEARNED

15. ADDITIONAL COMMENTS OR REMARKS

Instructions for Completing DD Form 2977, "Deliberate Risk Assessment Worksheet"	
1. Mission/Task Description: Briefly describe the overall Mission or Task for which the deliberate risk assessment is being conducted. **2. Date** *(DD/MM/YYY)*: Self Explanatory. **3. Prepared By:** Information provided by the individual conducting the deliberate risk assessment for the operation or training. **Legend: UIC** = Unit Identification Code; **CIN** = Course ID Number; **OPORD** = operation order; **DSN** = defense switched network; **COMM** = commercial **4. Sub-task/Sub-Step of Mission/Task:** Briefly describe all subtasks or substeps that warrant risk management. **5. Hazard:** Specify hazards related to the subtask in block 4. **6. Initial Risk Level:** Determine probability and severity. Using the risk assessment matrix (page 3), determine level of risk for each hazard specified. probability, severity and associated Risk Level; enter level into column. **7. Control:** Enter risk mitigation resources/ controls identified to abate or reduce risk relevant to the hazard identified in block 5. **8. How to Implement / Who Will Implement:** Briefly describe the means of employment for each control (i.e., OPORD, briefing, rehearsal) and the name of the individual unit or office that has primary responsibility for control implementation. **9. Residual Risk Level:** After controls are implemented, determine resulting probability, severity, and residual risk level. **10. Overall Risk After Controls are Implemented:** Assign an overall residual risk level. This is equal to or greater than the highest residual risk level (from block 9).	**11. Supervision Plan and Recommended Course of Action:** Completed by preparer. Identify specific tasks and levels of responsibility for supervisory personnel and provide the decision authority with a recommend course of action for approval or disapproval based upon the overall risk assessment. **12. Approval/Disapproval of Mission/Task:** Risk approval authority approves or disapproves the mission or task based on the overall risk assessment, including controls, residual risk level, and supervision plan. **13. Risk Assessment Review:** Should be conducted on a regular basis. Reviewers should have sufficient oversight of the mission or activity and controls to provide valid input on changes or adjustments needed. If the residual risk rises above the level already approved, operations should cease until the appropriate approval authority is contacted and approves continued operations. **14. Feedback and Lessons Learned:** Provide specific input on the effectiveness of risk controls and their contribution to mission success or failure. Include recommendations for new or revised controls, practicable solutions, or alternate actions. Submit and brief valid lessons learned as necessary to persons affected. **15. Additional Comments or Remarks:** Preparer or approval authority provides any additional comments, remarks, or information to support the integration of risk management. **Additional Guidance:** Blocks 4-9 may be reproduced as necessary for processing of all subtasks/ substeps of the mission/task. The addition and subtraction buttons are designed to enable users to accomplish this task.

RECORD OF ENVIRONMENTAL CONSIDERATION
REC

EMD Number: 1517002 **Project#:** N/A **Project Title:** Un-stabilized Gunnery Training

Description of Proposed Action:

M2/M240B/M249 live fire gunnery familiarization training. This will be 3 days of live fire training where the un-stabilized vehicle Crews will be stationary from the battle positions, firing points or from the concrete pad if front of the tower. They will be firing the M2, M240B, and the M249 at targets down range. All movement on the range will be on gravel that is around the concrete firing line and down the hill to the ammunition point. The other environmental concerns are refueling operations will be conducted on the concrete baseline. A spill kit and HAZMAT certified NCO will be present on the range in the event of a vehicle leak or spill occurs during refueling operations. The HAZMAT NCO will take any required actions to ensure compliance with local regulations in the event of a spill or leak. Ammo used: .50cal=A598/A557, M240B=A111/A131, M249=A064/A075.

Project Location:

Brooks

Amount, Description, Location of Disturbance/Digging:

None

Number/Types of Vehicles:	Number of Personnel:	Type of Ammunition:	Number/Types of Trees:
HUMVEES 8 LMTV 4 Will not be taken off road.	120	.50 Cal - A598/A557, 7.62 - A111/A131, M249 A064/A Live and Blank	None

Types of Aviation:

None

Other Concerns:

Size of Project Area: Acres

Duration of Action: Start:7/3/2015 Stop:9/30/2015

Proponent: SSG Rollins, Robert 706-544-3865

Unit, Section or Dept: 3RD BDE, 3ID

****

Decision: Concur with conditions

This Action is adequately covered in an Existing (EA/EIS) titled:

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

****

Training is Approved Through September 30, 2015

Cultural Resources - Archeological	**None**	**Edward Howard (706-545-1898), 6/19/2015**

No Comment.

Natural Resources - RCW	**None**	**Jonathan Neufeldt (706-544-7705), 6/22/2015**

No Comment.

Natural Resources - TES	**None**	**Mark Thornton (706-544-7079), 6/24/2015**

No Comment.

EMD Number: 1517002 **Project#** N/A

Project Title: Un-stabilized Gunnery Training

****

Noise **Conditions:** **Ellis Leeder (706-545-2400), 6/19/2015**

Training has been analyzed as part of the Installation Operational Noise Management Program (IONMP) study. Approved for use according to approved range packet from Range Operations. Any noise complaints will be investigated and recommend mitigation actions to the appropriate personnel for the training actions. This 144r must be present at the training site when occupying compartments or any firing ranges.

CWA - Training **Conditions:** **Jessica Loughman (706-604-4572), 6/22/2015**

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). 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.

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.

HAZARDOUS WASTE **Conditions:** **Carlos Ariasochoa (706-545-1857), 6/26/2015**

Considerations for Training Exercises:

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

All tanks, drums and other hazardous material containers used on site must be properly labeled and kept closed when not in use. Any above ground storage tanks used for fuel such as 5 gallon cans of fuel and other petroleum products to include fuel dispensing vehicles must have impervious secondary containment of adequate size to contain 100% of the tank or container contents. This also applies to drums used for the storage of petroleum products and used oil.

Any wastes generated must be evaluated for their hazardous characteristics and disposed of in accordance with all Federal (40 CFR), State (EPD 391-3-11) and Fort Benning Hazardous Waste Regulations. Flameless Ration Heaters in the Meals Ready to Eat must be activated before being disposed as a solid waste. Materials must be stored within secondary containment or within a building/Hazmat locker out of the weather to prevent discharge to the environment in case of a spill. Appropriate precautions must be taken to prevent hazardous material spills. Adequate quantities of spill response supplies must be on hand while work is being performed. If a spill occurs use notification procedures as outlined in the Installation Spill Contingency Plan and the Fort Benning Hazardous Waste Management Plan Chapter 14. Contain and clean up any spill

EMD Number: 1517002 **Project#** N/A

Project Title: Un-stabilized Gunnery Training

****

according to guidance provided by the Environmental Programs Management Branch (EPMB). Drip pans must be available for all military vehicles to prevent oil and other petroleum products from spilling onto the soil. All spills of petroleum products to the ground must be immediately cleaned up and disposed of in accordance with Fort Benning policy. The EPMB provides an 8 hours course covering Hazardous Materials/Waste Management, Hazardous Waste Minimization, Safety, and Pollution Prevention. It is highly recommended that personnel conducting the event attend the training offered.

Signature _____

Reviewed By

John E Brown

NEPA Program Manager

Date 2 JULY 2015

Signature _____

Approved By

Patrick R. Chauvey

EPMB Chief

Date 02 JUL 2015

FORT BENNING ENVIRONMENTAL REGULATIONS SUMMARY

SENSITIVE AREAS: Endangered species habitat or cultural resources. They are marked with steel pickets and white signs. Digging and vehicular traffic is prohibited.

POL/HAZMAT SPILLS: Report all spills through Range Control at 545-3474. If assistance is required from the Fire Department/HAZMAT Team, Range Control will make notifications through E-911. For POL spills greater than 20 gallons on land or any quantity on surface water, the Environmental Management Division (EMD) must be immediately notified through E-911 or 545-9879/4203. For POL spills less than 20 gallons on land, a Spill Report Form must be submitted within 24 hours to the EMD (Call 545-9879 and/or FAX 545-4209). After hours call the spill pager at 317-6584.

Unit should begin spill control measurements (REACT) within their capabilities. If a spill occurs within a sensitive area; stop the source, contain, and absorb the spill material - do not dig until EMD personnel arrive at the site.

Be prepared to report:
- Time, grid location, and cause of spill.
- Type of product and amount spilled.
- Distance from flowing water.
- Action taken to combat spill.

See USAIC 210-4, Range and Terrain Regulations, for more detail.

ENVIRONMENTAL INCIDENT REPORT FORM

Unit: _____

OIC/NCOIC: _____

Training Area: _____

Grid Coordinates: _____

Date and Name: _____

Signature: _____

FB (DPW) Form 31, 1 May 2004 PREVIOUS EDITION OBSOLETE

FORT BENNING ENVIRONMENTAL REGULATIONS SUMMARY

RED-COCKADED WOODPECKER (RCW): Cavity trees are identified by two white bands. Cluster boundaries extend 200 feet around each cavity tree, and are delineated by diamond-shaped signs. **WITHIN a cluster:**
- Personnel MAY NOT stay for more than 2 hours; NO BIVOUACS.
- The only digging allowed is BY HAND for hasty defense light infantry fighting positions. ALL other digging is prohibited.
- Within one half mile of a cluster, NO MECHANICAL DIGGING may be done within 20 feet of any mature pine tree (8 inch diameter or greater).
- Off-road vehicles MAY NOT come within 50' of any cavity tree.
- Use only .50cal and 7.62mm (or smaller) blank ammo; NO LIVE FIRE.
- CS gas, HC smoke, and noise generators MAY NOT be used.
- Incendiary devices (including trip flares) MAY NOT be used.
- Only hardwood may be cut for camouflage; CUT NO PINE.

GOPHER TORTOISE: Inhabits burrows in high sandy areas. Some burrows are marked by white 1" PVC pipe topped with reflective tape. Digging and vehicular traffic must be kept more than 50 feet away from burrows.

---------- CUT HERE ----------

ENVIRONMENTAL INCIDENT REPORT FORM

For your protection, company commanders are asked to document any environmental incidents by completing this card and forwarding it to the Chief, Environmental Management Division, Building 6, Room 307, or call 545-2180, within 24 hours of incident. Check off incident and take corrective actions.

____ bivouacking in RCW cluster (Relocate bivouac site.)
____ off-road driving / parking within 50' of RCW cavity tree (Relocate.)
____ digging in RCW cluster [except individual hasty fighting positions] (Refill holes.)
____ scarring or felling of trees in RCW cluster (Contact EMD Conservation Branch through Range Control.)
____ digging or driving in Sensitive Area (Relocate, DO NOT refill holes.)
____ wildfire started (Begin suppression and contact Range Control.)
____ POL spill greater than 20 gallons on land or any quantity on water (Immediately contact Range Control and begin spill control – **REACT**.)
____ POL spill less than 20 gallons on land (Begin spill control - **REACT**: contact Range Control and submit a Spill Report Form to EMD within 24 hours.)

Example Unit/Activity SOP for Training and Deployment

Introduction

This SOP is divided into two main sections: PREVENTION & RESPONSE. The following sections will assist you in planning your environmental activities while bedding down, initiating, sustaining and conducting field exercises, and/or during deployment. Before you deploy, ensure you are familiar with the following:

What Are Hazardous Materials and Hazardous Wastes

Hazardous Materials are defined as any material that may be a health or physical hazard, or any material that, based on either chemical or physical characteristics, is capable of posing a risk to human health or the environment if improperly disposed of, handled, stored, or transported. Chemical and physical characteristics that may pose a risk to human health or the environment include, but not limited to, one of the following characteristics: Ignitable; Corrosive; Reactive and/or Toxic.

Hazardous Waste: is defined as any discarded material (solid, liquid or gas) that:

1. Has no further value and cannot be reused or recycled;
2. Is harmful to human health or the environment due to its quantity, concentration, biological, chemical or physical characteristics; and/or
3. Exhibits one or more of the characteristics as described for Hazardous Material.

Contaminated or unusable fuel is a typical hazardous material/hazardous waste common to training and deployment operations and should be handled, stored, and disposed of properly.

Ten of the most common hazardous materials/hazardous wastes that you will encounter during training and or deployment operations include:

- Fuel
- Engine Oil
- Bleach or DS-2
- Solvent
- Anti-Freeze
- Transmission Fluid
- Used Oil Filters or Batteries
- Empty POL Containers
- Brake Fluid
- Grease.

These materials should be handled, stored and disposed of properly.
SPILL KITS: Spill kits should be maintained in and around all locations where hazardous materials/hazardous wastes are stored, handled, or disposed. Various types of kits may be ordered through the U.S. Army Supply System and include: rubber gloves, safety goggles, putty, rubber mallet, wooden plugs, absorbent booms, absorbent pads, plastic bags, and in some cases, a disposal barrel.

SPILL PREPARATION: Despite the best prevention, you may run into difficulties and an accident may occur when you least expect it. To minimize contamination, hazards to people, and environmental damage, you must REACT immediately. To help you prepare, this SOP will tell you:

- **HOW to PLAN** and be ready to respond to a problem;
- **HOW to REACT** to a minor, intermediate or major spill; and
- **WHAT** to do after a spill occurs.

Planning

MINOR SPILLS

- When on the move, keep some plastic bags in your vehicle, and have your assigned On-Vehicle Equipment (OVE) ready for use.
- Maintain supplies, rags, absorbent pads, or other kinds of materials that will soak up spills on hard surfaces (like Dry Sweep), or know where you can easily obtain them.
- Keep Personal Protective Equipment (PPE) accessible (gloves, goggles, etc.).

INTERMEDIATE & MAJOR SPILLS

In addition to the procedures above:

- Know where to go for help.
- Know where spill kits are kept and learn how to use them.

Prevention

Vehicle Maintenance and Fueling Points, Hazardous Waste Collection Points and hazardous material Storage & Supply Areas may not be set up at your deployment destination. So PLAN to build your areas to prevent hazardous material accidents before they occur. Remember the following:

HAZARDOUS MATERIAL/HAZARDOUS WASTE AREA LOCATION - Locate hazardous material/hazardous waste areas away from living areas, bunkers, ammunition storage, fence lines and/or dining facilities. Place them near the areas where hazardous material are used.

MATERIAL SAFETY DATA SHEET (MSDS) - Keep MSDSs for each hazardous material stored or collected at hazardous material/hazardous waste areas.

UNIT/ACTIVITY ENVIRONMENTAL SOP & SPILL RESPONSE PLAN - Place SOP and Spill Response Plan at each hazardous material/hazardous waste area.

COMPATIBILITY OF MATERIALS - Store and/or dispose of each class of hazardous material/hazardous waste separately. MSDSs describe the classification of HMs. Four common classification include the following: Flammable (fuels), Corrosives (acids), Reactive (explosives), and Toxic (insecticides).

BEFORE you deploy, plan to pack drip pans, rags, plastic, Dry Sweep, absorbent, and spill pallets to prevent drips, spills, and leaks from seeping into the ground and contaminating soil and water resources.

SECONDARY CONTAINMENT - All liquid hazardous material/hazardous waste must have secondary containment. In order for it to be effective it must:

1. Hold 10% of the total hazardous material/hazardous waste stored or 100% of the largest container.
2. Have sand and/or pallets placed in certain areas to protect the liner.
3. Have overhead cover.

You should continually keep your hazardous material/hazardous waste areas clean and orderly by applying the principals of Monitoring and Housekeeping. An easy way to remember what to check, is

to remember your **CHECK** list:

Containment:

___Ensure that secondary containment is used and in good condition.

___Empty water within secondary containment on a regular basis and dispose of it as hazardous waste at the Hazardous Waste Collection Point.

Hazardous Material/Hazardous Waste locations:

___Make sure the locations of your hazardous material/**hazardous waste** are well chosen.

___Put up warning signs and keep them clean and orderly.

Environmental Documentation:

___Maintain MSDSs for each hazardous material and update Unit/Activity SOPs and Spill Response Plans regularly.

Containers:

_____Check condition of containers and keep containers of incompatible materials in proper order.

Kits:

_____Place Spill Kits, First Aid Kits, and Emergency Response Kits in the vicinity of the hazardous material/hazardous waste areas.

See Appendix D of the ASP for specific CHECKlists for areas such as: Vehicle Fueling & Maintenance Areas; Hazardous Waste Collection Points; and Hazardous Material Supply & Storage Areas.

Response

Be prepared to respond immediately to any spill situation. Keep your Environmental SOP and Spill Response Plan (SRP) readily available at the main hazardous material/hazardous waste areas. The SRP should ensure that the following measures are implemented:

- PERSONAL PROTECTIVE EQUIPMENT (PPE) - At the entrance of every hazardous material/hazardous waste area, keep a supply of PPE to protect hands, eyes, skin, ears, head, feet, and lungs. If you are unsure about which items you need, consult the MSDS for the HMs that you are using.
- MSDS - Make sure that MSDSs are available in order to REACT to spills safely and effectively.
- SPILL STATIONS - Maintain spill response equipment at a station near (not inside of) hazardous material/hazardous waste areas. They should contain: First Aid Kits, Fire Extinguishers, Spill Response Kits, and Emergency PPE.
- TRAINING - Improve your readiness by practicing the SPILL DRILL on a regular basis, and be sure to know the spill reporting process.

Respond to spills, major or minor, immediately in order to eliminate hazards that could cause personal injury and/or environmental damage. If assistance is required, or spill/release is major, immediately call **911 or the Fort Benning Military Police (MP) Desk.**

In any spill situation:

1. Safety First! -- Protect yourself by using PPE, including goggles, gloves, and suits. THEN...
2. Do the SPILL DRILL -- **REACT**:

REMOVE THE SOURCE: Plug the drip or leak and stop the spill.

ENVELOP THE SPILL: Place absorbent booms around the spill area, or build an earthen dam, when appropriate, around the spill.

ABSORB/ACCUMULATE: Place appropriate absorbent material (Dry Sweep, pads, etc.) on the spill in the middle of the boomed-off area.

CONTAINERIZE THE HAZARDOUS WASTE: Use a shovel to place contaminated materials (including soil, booms, pads or other materials) in a plastic bag or a waste drum.

TRANSMIT A REPORT: If a spill is too large to handle alone, - REACT as best you can and get help!

See Appendix D of the ASP for specific REACT actions for spills involving:

- **Minor Spills** (20 gallons or less);
- **Intermediate Spills** (from 21-55 gallons); and
- **Major Spills** (more than 55 gallons), or any spill into water, where injuries occurred or where spills occurred off Fort Benning associated property.

In addition:

- Prevent hazardous material from entering storm sewers and waterways;
- Minimize impacts to vegetation and wildlife; and
- Notify proper personnel and maintain record of spill event.

Acronyms are defined in the ASP Table of Content

APPENDIX H

Spill Kits and Response Material Checklists

Summary Spill Kit and Response Material Checklist

Recommended Spill Kits for Unit/Activity Motor Pools, Aircraft Hanger Areas, and all POL Field Sites

Recommended Spill Kits for Fuel Carrying Vehicles

Recommended Spill Kits for Other Military Vehicles

Vehicles Transporting Hazardous Materials other than POL

Summary Spill Kit and Response Material Checklist

Spill Kits and Response Material	Primary Contents
Spill kits should be maintained in and around all locations where hazardous material and hazardous waste are stored, handled, or disposed. The contents of a spill kit will vary depending on the hazardous materials and their characteristics. Hazardous materials other that POL will require spill kits to meet their specific requirements, (i.e., acid spill kit for Battery Shop that handles lead acid batteries).	**Spill kits** should include as a minimum: ✓ Rubber gloves, ✓ Safety goggles, ✓ Putty, rubber mallet, ✓ Wooden plugs, ✓ Absorbent booms, ✓ Absorbent pads, ✓ Plastic bags, and ✓ In some cases, a disposal barrel.
The Unit/Activity must check the material's MSDS for specific information on PPE and spill supplies.	Units/activities **transporting hazardous materials** should also plan for having a minimum amount of response materials on hand. ✓ Various types of kits can be ordered through the U.S Army Supply System (through the Units supply or S-4 shop); ✓ The Unit/Activity must assess their hazardous material inventory and plan to have enough spill response material to respond to the larger container within their facility and the minimum for any specific hazardous material that require specific spill materials or PPE; and ✓ Whenever the Unit gets to this minimum level, the user should initiate a reorder to the supply NCO or S-4 to maintain the minimum amount on-hand.

Acronyms are defined in the ASP Table of Contents

Recommended Spill Kits for Unit/Activity Motor Pools, Aircraft Hanger Areas, and all POL Field Sites

30-Gallon POL Boom Kit: Absorbs Approx. 40 Gallons
Polyurethane 2 Rolls
55-Gallon POL Kit: Absorbs Approx. 40 Gallons
1 55 Gallon Drum
2 Bags Absorbent
6 Booms 2x10
50 Absorbent Pads
10 Heavy Duty Trash Bags

Recommended Spill Kits for Fuel Carrying Vehicles

It's recommended that all fuel carrying vehicles should have a transportation pack spill kit or equivalent spill equipment on board at all times. The following vehicles are considered to be fuel transporting vehicles: HEMITT M971 2500 gallons, Tanker 5000 gallon, M49C 1200 gallon, Tank and Pump unit 600 gallon.

The following is a list of the minimum level of spill equipment recommended to be on hand in all fuel carrying vehicles, especially if they are traveling within the Installation or in a filed exercise.

Drip Pan
30-Gallon POL Kit: Absorbs Approx. 20 Gallons
1 30 Gallon Drum
1 16 pound bag Absorbent
3 Booms 2x10
25 Absorbent Pads ~17xl9
5 Heavy Duty Trash Bags
1 Dust Pan

Recommended Spill Kits for Other Military Vehicles

Recommended on Vehicle Equipment (OVE) for small spills (usually from vehicle leaks):

1 drip pan
4-5 absorbent pads
1-2 plastic bags.

Additional Materials or Equipment

For each one of these recommended spill kits, the following should be available:
PPE such as: Goggles and Gloves. (2-3 pairs)
1 Shovel
2 Labels for wastes
1 Spill report
1 Inventory

Vehicles Transporting Hazardous Materials other than POL

- ✓ Transportation of hazardous materials is regulated under the Department of Transportation. Personnel transporting hazardous materials must follow all DOT requirements.
- ✓ As a preventive measurement, vehicles transporting small amounts of hazardous materials or waste should have a transportation pack spill kit or equivalent spill equipment on board to REACT in the event of an incident.

- ✓ Hazardous Materials other that POL will require spill kits to meet their specific requirements. The Unit/ Activity should check the MSDS for the materials that they transport and have appropriate amount for those particular materials.

Spill Response Record

PHASE I-IMMEDIATE ACTIONS FOR EVALUATING AND REPORTING SPILLS:

IMMEDIATELY REPORT ALL SPILLS TO YOUR SUPERVISOR AND/OR CALL 911 or the Fort Benning Military Police (MP) Desk

***BE PREPARED TO PROVIDE THE FOLLOWING INFORMATION TO THE 911 OPERATOR:*

During Duty Hours also Call Mr. Felix Seda, EMD Spill Manager at (706) 545-9879

1. DATE/TIME OF SPILL: _____/_____
2. LOCATION: _____
3. MATERIAL SPILLED (include NSN and ingredients, if able): _____
   _____
4. HAZARD: FLAMMABLE _____ TOXIC _____ CORROSIVE _____
   OXIDIZER _____ REACTIVE _____ UNKNOWN _____
   OTHER (Specify) _____
5. CAUSE OF SPILL: _____
   _____
6. DESCRIPTION OF SPILL QUANTITY, SIZE AND TYPE OF AREA AFFECTED:
   a. Quantity Released and Size of Spill Area: _____
   b. Soil: _____
   c. Pavement: _____
   d. Vegetation: _____
   e. Storm of Sewer Drain: _____
   f. Name of body of Water (River, Creek, Pond, Lake, Drainage Ditch): _____
   _____
7. HAS RELEASE BEEN STOPPED? _____
   _____
8. HAS RELEASE BEEN CONTAINED? _____
   _____
9. DID RELEASE CROSS INSTALLATION BOUNDARIES: (IF YES, DESCRIBE LOCATION): _____
   _____
10. TYPE AND EXTENT OF INJURIES, IF ANY: _____
    _____

*****Provide a copy of this form to DPW EMD Spill Program Manager or FAX to (706) 545-4209***

PHASE II — POST-SPILL RESPONSE AND CLEAN UP ACTIONS:

11. DESCRIBE CLEAN-UP METHOD AND CONTAINMENT PROCEDURES: _____
    _____
12. NAME OF CONTRACTOR INVOLVED IN CLEAN-UP: _____
    _____
13. ESTIMATED AMOUNT OF SPILL RESIDUE AND CONTAMINATED MATERIAL REMOVED: _____
    _____
14. ESTIMATED COST OF CLEAN-UP: _____
    _____
15. CORRECTIVE ACTION TAKEN OR TO BE TAKEN TO PREVENT FUTURE SIMILAR INCIDENTS: ____
    _____
16. NAME AND PHONE NUMBER OF PERSONNEL REPORTING SPILL: _____
    _____

*****KEEP THIS FORM FOR A MINIMUM OF 5 YEARS***

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

08 July 2015

MEMORANDUM FOR Commander, 3rd Bde IBCT, Attn: SSG Robert Rollins, 9195 Kelley Hill, Fort Benning, GA 31905

SUBJECT: 3rd IBCT Direct Fire Platform Crew Gunnery (Day & Night) on Brooks Range Scenario and DRAW Safety Review

1. References.

a. Army Regulation 385-10, The Army Safety Program, 27 November 2013.

b. Army Regulation 385-63, Range Safety, 30 January 2012.

c. Department of the Army Pamphlet 40-501, Hearing Conservation Program, 10 December 1998.

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, 02 December 2014.

f. Department of the Army Pamphlet 385-63, Range Safety, 16 April 2014.

g. Army Techniques Publication 5-19, Risk Management, 14 April 2014.

h. MCoE Regulation 350-19, Range and Terrain Regulation, 01 March 2013.

2. Document received on 08 July 2015.

3. Concur w/comments.

a. DRAW, Blocks 6 & 9, pg. 5. "Eye Injuries", recommend that elevate the Initial Risk Level to "MODERATE" to more accurately reflect the probability of an accident occurring.

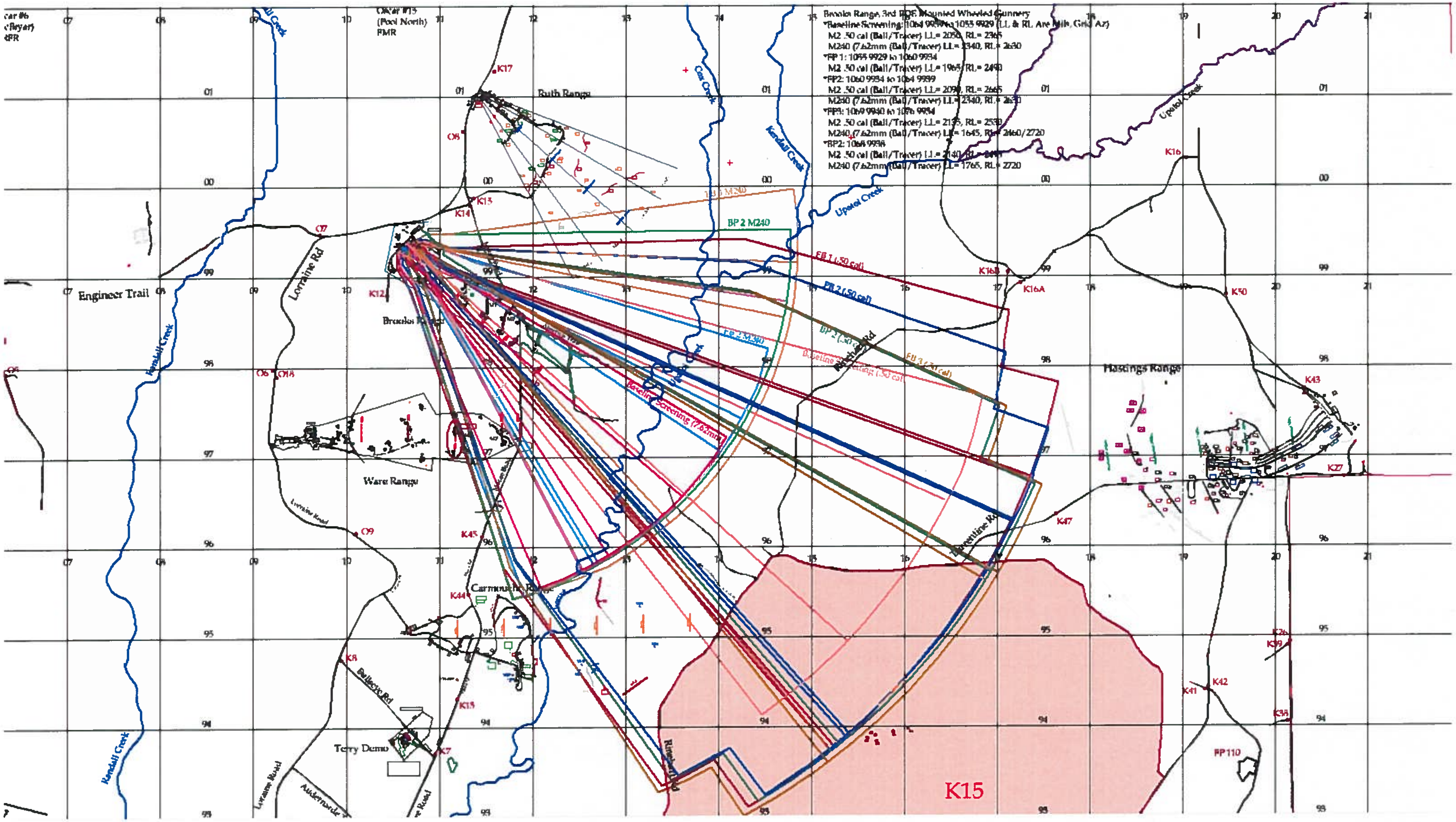
b. DRAW, Block 5, pg. 6. "CASEVAC/MEDEVAC to Hospital", what is the hazard?

c. Scenario, paragraph 6, pg. 2. Recommend that you familiarize yourselves with the closest AXPs, set up the HLZ for extraction and conduct a rehearsal before shooting.

d. Scenario, paragraph 11, pgs. 3 & 4. Ensure that the crew cohesion remains constant between day and night firings. If cohesion cannot be assured then day iteration training must be completed prior to night iterations.

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



Brooks Range 3rd ROE Mounted Wheeled Gunnery
M2 .50 cal (Ball/Tracer)
M240 (7.62mm (Ball/Tracer)
FP 1: 1055 9929 to 1060 9934
FP2: 1060 9934 to 1064 9939
M240 (7.62mm (Ball/Tracer) LL= 1645, RL= 2460/2720
BP2: 1068 9938
M240 (7.62mm (Ball/Tracer) LL= 1765, RL= 2720
Ruth Range
Brooks Range
Ware Range
Hastings Range
Carmouche Range
Terry Demo
Engineer Trail
Lorraine Rd
Kendall Creek
Cox Creek
Upatoi Creek
BP 2 M240
FP 1 (.50 cal)
FP 2 (.50 cal)
FP 3 (.50 cal)
Baseline Screening (7.62mm)
K15
K16
K16A
K16B
K17
K13
K14
K12
K27
K43
K44
K45
K47
K50
K8
K7
O7
O8
O9
FP 110