



UNITED STATES MARINE CORPS
3D BATTALION, 23D MARINE REGIMENT
4TH MARINE DIVISION
10810 LAMBERT INTERNATIONAL BLVD
BRIDGETON, MO 63044

IN REPLY REFER TO:
AHS
11 Feb 2015

MEMORANDUM FOR: Chief, Range Operations, U.S. Army Garrison, Fort Benning, GA 31905

SUBJECT: COMPANY LIVE-FIRE AND MANEUVER/DISMOUNTED ATTACK FOR DMPRC

1. PURPOSE: To provide the concept of training for Lima Company, 3d BN 23d MAR, at the DMPRC for an infantry dismounted live-fire attack.

2. TRAINING OBJECTIVES: Exercise proficiency in training and readiness, individual and collective tasks, through company level for a ground attack:

- a. INF-MAN-6001 Conduct a Ground Attack
- b. INF-MAN-6203 Occupy an Assembly Area
- c. INF-MAN-6102 Conduct Obstacle Breaching
- d. INF-FSPT-6001 Conduct Fire Support Planning
- e. INF-FSPT-6002 Conduct Fire Support Coordination
- f. INF-FSPT-6006 Conduct Fist Operations
- g. INF-C2-6001 Employ Command and Control Systems
- h. INF-C2-6002 Conduct Company Combat Operations Center Operations
- i. INF-C2-6003 Conduct Planning
- j. INF-C2-6007 Execute Command and Control of an Operation
- k. INF-C2-6009 Prepare for Combat Operations

3. WEAPONS/AMMUNITION TYPES:

- a. M4/M16A4/M27: 5.56 Blank/Ball
- b. M240G: 7.62 Blank/4in1 live
- c. M203: 40mm Training/Practice
- d. AT-4 TT: 9mm subcal
- e. MK153 SMAW 9mm spotting round
- f. Mortars' section will be operating dry, without ammunition, in order to exercise company fire support capability and practice section displacement in support of maneuver.

4. PYROTECHNICS: 40mm Green star Parachute, 40mm Red Star Parachute, 40mm White Star Parachute, Illumination Ground White Star Parachute, Illumination Ground White Star Cluster, Yellow Smoke, HC Smoke.

5. GENERAL CONCEPT OF THE OPERATION: The Company will be conducting operations with 3 rifle platoons, 1 weapons platoon (mortar, machinegun, and assault sections), a headquarters and Fire Support Team, and a Company Operations Center. The Company Commander will issue an operations order to conduct a deliberate attack on company objectives 1 and 2. The company will conduct dry and blank rehearsals on the range prior to live-fire execution. Squad position safety officers, Company I&I and select staff, will ensure Marines understand the range limits, sectors of fire, and direct fire control measures prior to execution. The OIC will conduct a terrain walk with all PSO's and leadership, and with the Battalion Commander present, to confirm

*Approved 9 Apr 15
Log # 1-4-15
Expiration: 7 Apr 17
Boops. W*

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all limits of the range. All squad leaders and above will have a lensatic compass during the terrain walk. In addition, the OIC will point out visibly recognizable terrain features that will serve as range limits and locations where flanking elements require supporting elements to both shift and cease fire. These markings will not be easily destroyed and will not detract from the realism of the exercise.

6. EXECUTION:

a. The company establishes a COC at GA 09862 88702.

b. The company conducts orders, reconnaissance, rehearsals, pre-combat checks and inspections at GA 09334 89032. This will also be the ammunition point. For the live-fire iteration, RSO and PSO's will conduct pre-fire checks to ensure proper protective equipment is worn and all blank firing adapters are removed.

c. On order, the company will depart COC and move east-southeast (110 degrees) by platoon to occupy their assigned Battle Position. Marines will move in weapons' condition 4 to condition 3, and finally condition 1.

d. Mortars' section, reinforced by a 3d squad, 3d platoon, will move to occupy mortar position, MP 1 at GA 1008 8937. On order, mortars notionally engage Company Objective 1 and 2.

e. 3d Platoon (-) will move north (357 degrees) towards GA 1029 8925 and will hold their position and provide security. Machinegun section reinforced by 2nd Platoon 3d squad, moves southeast (115 degrees) to occupy support by fire position, SBF 1, at GA 1085 8872LS to 1086 8870RS and start engaging there assigned targets (See Weapons, Ammo, and Target List). 1st Platoon 2nd Squad moves southeast then east-northeast (129 degrees for approximately 700m, then 65 degrees for 300m), utilizing the tree line for concealment, to occupy their attack position at GA 1101 8851. Machineguns, SBF 1, engage Co Objective 1 (See Weapons, Ammo, and Target list). 2d Platoon 3d Squad (-) remains in support in SBF 1 and will continue engaging targets.

f. Phase Line Red. 3d Platoon moves north-northeast (50 degrees) towards GA 1079 8979.

g. Mortars are ceased notionally on Co Objective 1 and continue suppression notionally on Co Objective 2. 1st Platoon, 1st squad moves north-northeast (40 degrees) to occupy SBF 2 at GA 1100 8866LS to 1102 8865RS and will start engaging there assigned targets (See Weapons, Ammo, and Target list). Both Machineguns from SBF 1 and SBF 2 will shift fire. 1st Platoon 2d squad, moves north-northeast (20 degrees) from their attack position to their assault position. 1st Platoon 3d squad follows in trace as security.

h. SBF 1 will continue to engage targets and SBF 2 will cease fire before the twp (2) assault team can occupy their fighting positions. 1st Platoon 2d and 3rd squad, will occupy their assigned objective position (2nd Squad 11224 88820LS to 11252 88821RS and 3rd Squad 11320 88836LS to 11348 88841RS). Both Squads will maneuver forward of their position (2nd Squad approximately 13 meters and 3rd Squad approximately 29 meters) and engage their assigned targets (See Weapons, Ammo, and Target List). SBF 1 and both assault teams will cease fire prior to the Platoon consolidating on Co Objective oriented north to east. 3d Platoon reaches attack position at GA 1079 8979. 2d Platoon and Machinegun Section move along the road through Co Objective 1. Phase Line Blue.

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i. 2d Platoon and Machinegun Section pass through Co Objective 1 moving northeast (15 degrees) to occupy SBF 3 at GA 11314 89529LS to GA 11325 89500RS (2nd Platoon to the northwest end, 1st Platoon on the southeast). 2nd Platoon occupies SBF 3 and starts engaging CO Objective 2. 3d Platoon 1st Squad, remains at attack position GA 1079 8979. Mortars shift to notional deep targets.

j. 3d Platoon, 2nd Squad occupies SBF 4 at GA 11218 89798 (RS) to 11223 89814 (RS) and engages Co Objective 2. 3d Platoon, 3d Squad, moves northeast to assault position at GA 11285 89955 (L) to 11259 89932 (R). SBF 4 ceases fire, SBF 3 shifts fires. 3d Platoon, 3d Squad, maneuvers forward in the direction of the trench and engages targets (See target List) and assaults the trench line at Co Objective 2. 3rd Platoon 1st Squad, moves to assault position to support 3d Squad. Once the trench is clear and Co Objective is secure, SBF 3 cease fire and Platoon consolidates oriented northwest to northeast. Mortars displace, moving northeast along the road to secondary position southwest of Co Objective 2. 1st and 2nd Platoon departs their location and moves north-northeast through SBF 3 and Co Objective 2 to occupy the ridge at GA 1165 9010, orienting north to east. Machinegun section displaces to the ridgeline at GA 1165 9010 and is emplaced within 1st Platoon. Mortars displace and occupy MP 2 in the vicinity of Co Objective 2. No live fire will be done at this stage (LOA).

k. Upon consolidation/re-organization, all Marines will unload, show clear all weapons systems. PSO and RSO will visually clear chamber and punch all machinegun barrels, to include spare barrels. Once clear and all personnel and equipment are accounted for, they will all move southwest along the roads to MP 1 for a after action debrief.

7. SAFETY

a. Communication/Signal:

1. Primary means of signaling shift/cease fire will be FM communication. Alternate signal will be pyrotechnics.

2. Position Safety Officers, Co I&I and selected staff, will be with each squad and platoon to confirm receipt of signals by non-tactical radios.

3. Emergency cease-fire will be called over both FM and non-tactical radio followed by a red star cluster.

4. Unit will maintain continuous contact with Range Control at all times. If communication is lost, the unit will go into a self-induced check-fire until communication is restored.

b. Medical

1. In the event of a serious accident (Urgent or Priority), injury, or illness, the OIC/RSO will immediately call a cease-fire then call E911 using the standard 9 line MEDEVAC to determine what type of evacuation is the most appropriate for the injury (loss of life, limb, or eyesight). MEDEVAC will be IAW MCoE Regulation 350-19 and USAIC 40-2. Landing zone for MEDEVAC aircraft will be established prior to use and will be marked appropriately. Range Control will be notified in this event. The cease-fire will remain in effect until cleared through Range Control.

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2. Primary means of coverage will be on-site Navy Corpsman. A Corpsman with medic bag will follow each platoon during live-fire.

3. Prior to any movement downrange, the OIC/RSO will conduct a MEDEVAC rehearsal. In addition, the OIC/RSO will conduct a daily MEDEVAC brief with all key personnel.

4. Routine and non-life threatening injuries will utilize safety vehicle for MEDEVAC to Martin Hospital.

c. Range Safety Officer will brief and ensure compliance on the following tasks:

1. All Marines are safety officers, anyone observing an unsafe act will immediately call a cease-fire.

2. All weapons will be discharged downrange and within the designated limits.

3. All Marines will follow weapons safety rules and conditions.

4. If the company does not safely complete dry/blank runs they will be retrained and will run another dry/blank run prior to going hot.

5. Marines will go condition 3 inside the AA and condition 1 when departing AA.

6. Marines will not engage targets once they have fallen.

d. Ammunition:

1. The ammunition SNCO will sign for all blank and live ammunition.

2. The blank and live ammunition will be stored in two separate field ASP's.

3. The ASP will issue only enough ammunition for one iteration of either blank or live-fire. Unused ammunition will be returned to the ASP after each run.

4. Blank Firing Adapters will be used during blank runs and removed prior to issuing live ammunition. RSO and PSOs will confirm this.

5. There will be ammunition shake-down at the completion of the blank and live-fire run.

6. When a malfunction is experienced, the OIC/RSO will suspend all firing and immediately notify Range Division Alpha Base. The weapons and components and ammunition involved will remain in place. The cease-fire will remain in effect until cleared through Range Division Alpha Base. An investigation is required and will be conducted by the ammunition and weapons inspection personnel and DOL.

e. Range Limits/Misc:

1. Company RSO and PSO's ensuring all weapons systems fire within range limits as specified in the FB 350-19-1-E-R.

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2. All key personnel from squad leader up, to include all PSO's, will conduct a terrain walk with the Battalion and Company Commander prior to execution of the range to verify understanding of the scheme of maneuver and all range limits.

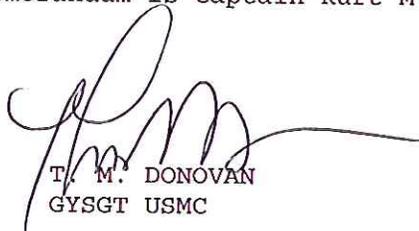
3. The scenario will remain the same for dry, blank, and live-fire.

f. Roadblocks: Gates to be closed: K-3, K-5, K9, K9A, K-16A, K-16B, K-36, K36A, K41, K47, L-10, D-1, D-2, and DMPRC barrier 1 and 2. Guards will be placed on D1, K9 and K36 gate (See MCoE 350-19 for locations).

g. 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 Division Alpha Base and the using unit's higher headquarters. The OIC/RSO will take action as directed by Range Division Alpha Base. The cease-fire will remain in effect until the problem is resolved and cleared through Range Division Alpha Base. If the incident results in an injury, the OIC/RSO will use the procedures outlined in the medical paragraph. The following will be furnished by the OIC/RSO to Range Division Alpha Base:

- a. Designation of unit.
- b. Range and location.
- c. Type of weapon involved.
- d. Type of ammunition.
- 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.

8. The point of contact for this memorandum is Captain Kurt M. Fallon and can be reached at (334) 274-3805.


T. M. DONOVAN
GYSGT USMC

SUBJECT: COMPANY LIVE-FIRE AND MANEUVER/DISMOUNTED ATTACK FOR DMPRC

Encl:

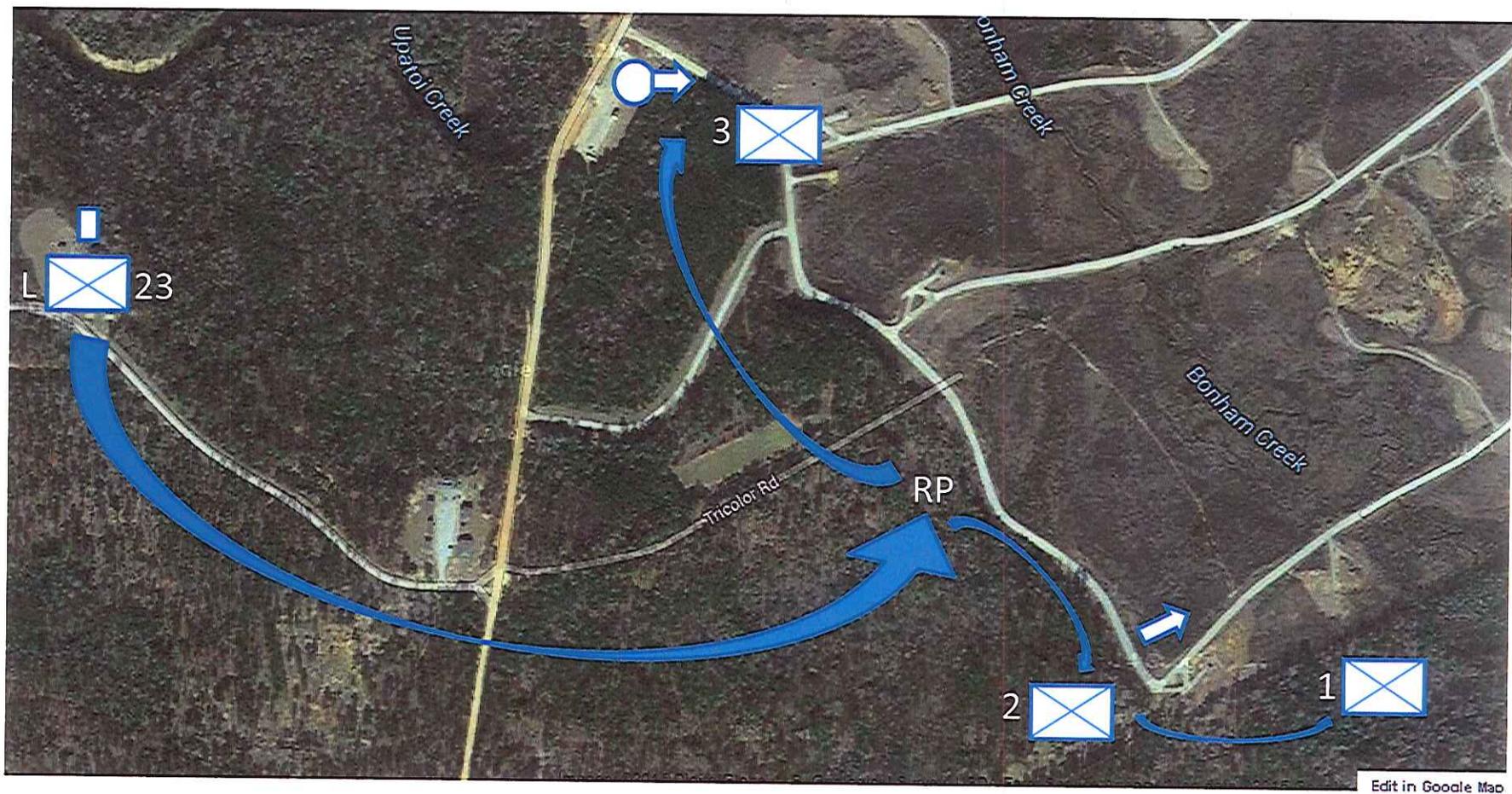
- (1) Range sketch
- (2) FB 144R
- (3) Risk Assessment

DMPRC Range, I Co 3dBN23dMAR Company LFX (Log #1-4-15) Weapons and Ammunition List Enclosure

Firing Positions	Weapons	Ammunition	Left Limit of Fire Degrees, Grid Azimuth	Right Limit of Fire Degrees, Grid Azimuth
SBF1- GA 10857 88703 (R) to GA 10846 88719 (L)	M4, M27, M240B	5.56mm Blank/Ball, 7.62 Blank/Ball/Tracer	5	45
SBF 1 Shift Fire-GA 10857 88703 (R) to GA 10846 88719 (L)	M4, M27, M240B	5.56mm Blank/Ball, 7.62 Blank/Ball/Tracer	5	20
SBF 2- GA 11016 88654 (R) to GA 10996 88659 (L)	M4, M27, M203	5.56mm Blank/Ball, 40mm TP	10	45
SBF 2 Shift Fire-GA 11016 88654 (R) to GA 10996 88659 (L)	M4, M27, M203	5.56mm Blank/Ball/40mm TP	10	30
Assault Obj 1- 1st Plt, 2d Sqd(LS)-GA 11251 88820 to GA 11251 88832 (RS) to 11222 88820 to 11222 88833 (LS)	M4, M27, M203, SMAW spotting round	5.56mm Blank/Ball/40mm TP/9mm Subcal.	357	15
Assault Obj 1- 1st Plt, 3d Sqd (RS)-GA 11379 88841 to 11378 88860 (RS) to GA 11355 88833 to 11354 88854 (LS)	M4, M27, M203, SMAW Spotting Round	5.56mm Blank/Ball/40mm TP/9mm subcal.	355	10
SBF 3- GA 11325 89500 (R) to GA 11316 89529 (L)	M4, M27, M240B	5.56mm Blank/Ball, 7.62 Blank/Ball/Tracer	37	85
SBF 3 Shift Fire-GA 11325 89500 (R) to GA 11316 89529 (L)	M4, M27, M240B	5.56mm Blank/Ball, 7.62 Blank/Ball/Tracer	50	85
SBF 4- GA 11218 89798 (R) to GA 11223 89814 (L)	M4, M27, M203, SMAW spotting round	5.56mm Blank/Ball, M203 TP	75	105
Assault Obj 2- 3d Plt, 3d Sq GA 11259 89932 (R) to GA 11285 89955 (L)	M4, M27, M203	5.56mm Blank/Ball	105	120
Trench Assault GA 11484 89851	NA	NA	NA	NA

DMPRC Range, I Co 3dBN23dMAR Company LFX (Log #1-1-15) Target List Enclosure

Firing Positions	Weapons	Ammunition	Targets
SBF1- GA 10857 88703 (R) to GA 10846 88719 (L)	M4, M27, M240B	5.56mm Blank/Ball, 7.62 Blank/Ball/Tracer	T6, T5, SA1, M7, M301, SA13
SBF 1 Shift Fire- GA 10857 88703 (R) to GA 10846 88719 (L)	M4, M27, M240B	5.56mm Blank/Ball, 7.62 Blank/Ball/Tracer	SA62, T15, SA13, T4
SBF 2- GA 11016 88654 (R) to 10996 88659	M4, M27, M203	5.56mm Blank/Ball, 40mm TP	T5, T6, SA1, T15
SBF 2 Shift Fire- GA 11016 88654 (R) to GA 10996 88659 (L)	M4, M27, M203	5.56mm Blank/Ball/40mm TP	T15, T5
Assault Obj 1- 1st Plt, 2d Sqd, (LS) GA 11251 88820 to 11251 88832 (RS) to GA 11222 88820 to 11222 88833 (LS)	M4, M27, M203, SMAW spotting round	5.56mm Blank/Ball, 40mm TP, 9mm Subcal.	Portable Targets, Locations - 11222 89007 (LS), 11248 89022 (RS)
Assault Obj 1- 1st Plt, 3d Sqd (RS), GA 11379 88841 to 11378 88860 (RS) to GA 11355 88833 to 11354 88854 (LS)	M4, M27, M203	5.56mm Blank/Ball, 40mm TP	Portable Targets, Locations - 11351 89060 (LS), 11375 89070 (RS)
SBF 3- GA 11325 89500 (R) to GA 11316 89529 (L)	M4, M27, M240B	5.56mm Blank/Ball, 7.62 Blank/Ball/Tracer	SA8, T12, SA3, SA9
SBF 3 Shift Fire-GA 11325 89500 (R) to GA 11316 89529 (L)	M4, M27, M240B	5.56mm Blank/Ball, 7.62 Blank/Ball/Tracer	SA3, SA10
SBF 4- GA 11218 89798 (R) to GA 11223 89814 (L)	M4, M27, M203, SMAW spotting round	5.56mm Blank/Ball, M203 TP	SA8, T12, SA3
Assault Obj 2- 3d Plt, 3d Sq GA 11259 89932 (R) to GA 11285 89955 (L)	M4, M27, M203	5.56mm Blank/Ball	Portable Targets, Locations - 11492 89367 (LS), 11479 89837 (RS)
Trench Assault GA 11484 89851	NA	NA	NA



- b. The company conducts orders, reconnaissance, rehearsals, pre-combat checks and inspections at GA 09338 89030.
- c. On order, the company will move east-southeast to a release point in the vicinity of GA 1045 8868.
- d. Platoons and sections will break off from the release point. Mortars' section and 3d Platoon, will move north-northeast to occupy mortar position, MP 1 at GA 1008 8937. 3d platoon will maintain security position until signal to move to Obj 2. On order, mortars notionally engage Company Objective 1 and 2.
- e. Machinegun section reinforced by 3d squad, 2d Platoon, move southeast to occupy support by fire position, SBF 1, at GA 10845 88719 to 10857 88702. 1st Platoon moves southeast then east-northeast hugging the tree line for concealment, to occupy their attack position at GA 1101 8851

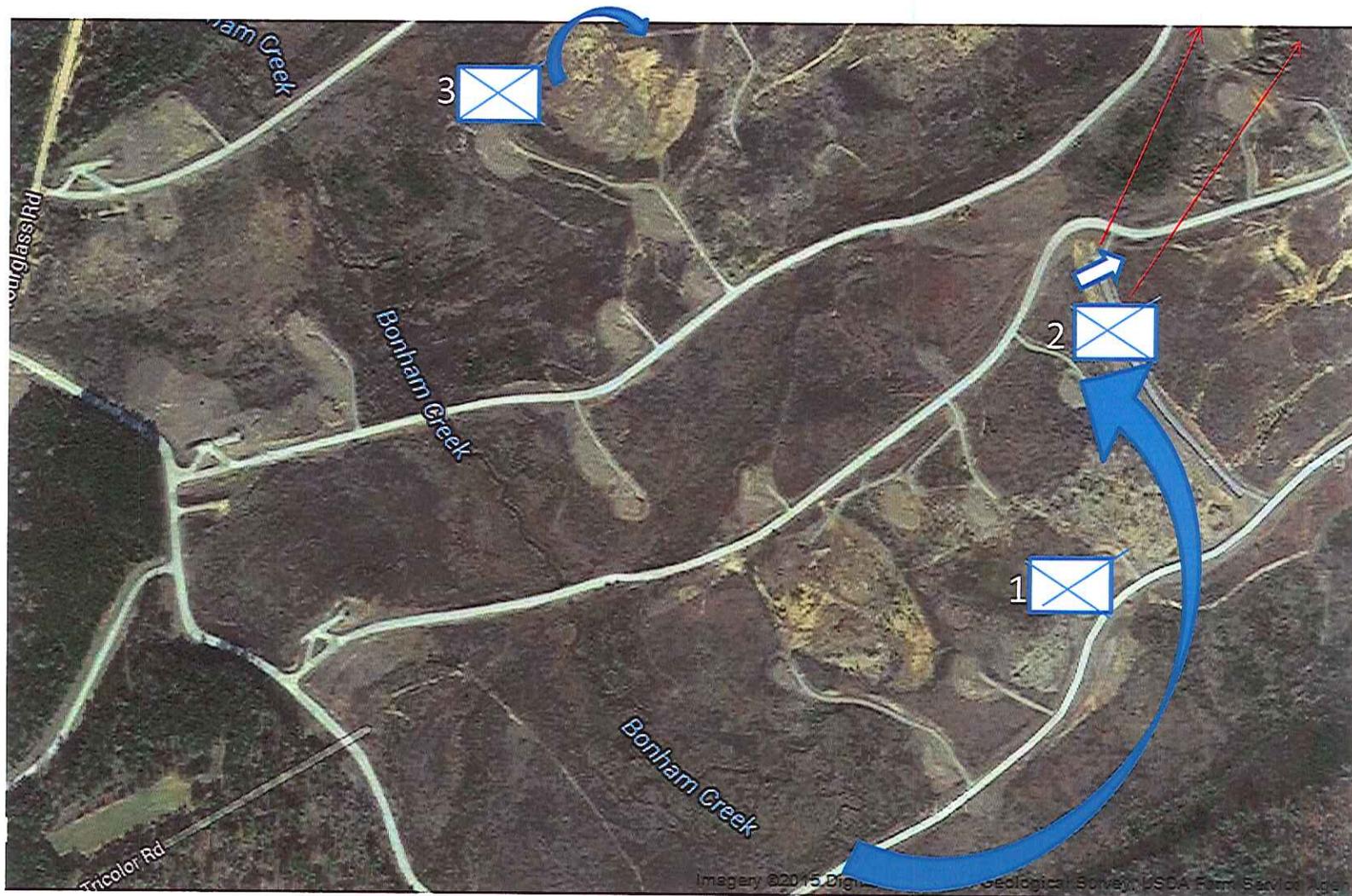


f. Machineguns, SBF 1, engage Co Obj 1. 2d Platoon (-) remains in support behind SBF 1.

g. 3d Platoon moves north-northeast towards GA 1079 8979.

h. Mortars are ceased on Co Obj 1 and continue suppression on Co Obj 2. 1st Platoon, 1st squad moves north-northeast to SBF 2 at GA 11004 88709 to 11025 88691. SBF 2 engages Co Obj 1. 2d and 3rd squad, 1st Platoon, moves north-northeast to assault position. SBF 1 shifts fires and SBF 2 ceases fire. 2d Platoon (-) moves to GA 1075 8849 in order to support 1st Platoon and exploit a successful assault of Obj 1.

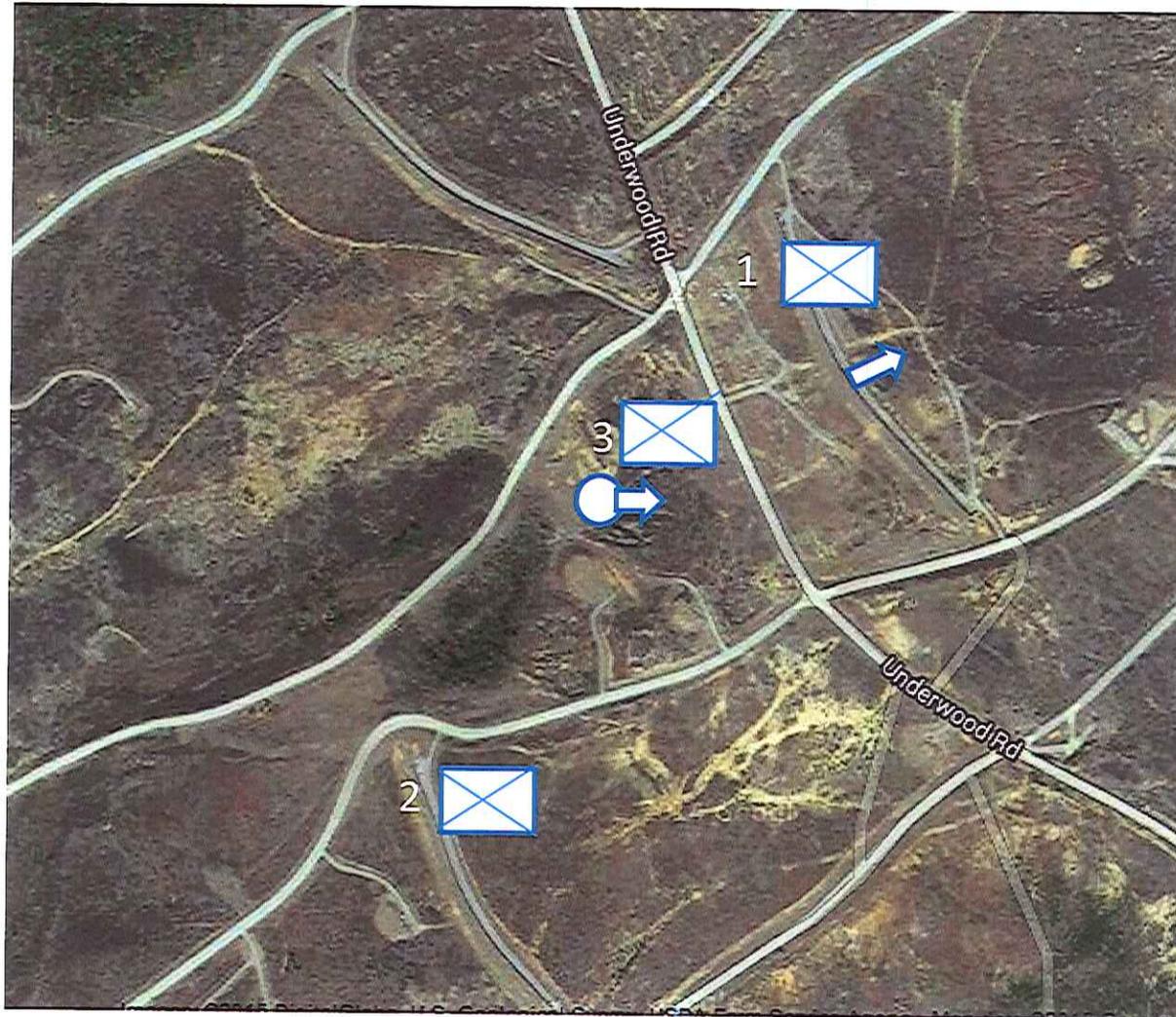
i. SBF 1 ceases fire, 2d and 3rd squad, 1st Platoon, assaults Co Obj 1, 2d squad from GA 11194 88838 to 11164 88833, 3rd squad from GA 11252 88836 to 11223 88832.



- j. 1st Platoon consolidates on Co Obj 1 oriented north to east.
- k. 3d Platoon reaches attack position at GA 1079 8979.
- l. 2d Platoon and Machinegun Section move along the road through Co Obj 1. Phase Line Blue.
- m. 2d Platoon and Machinegun Section pass through Co Obj 1 moving northeast to occupy SBF 3 at GA 11317 89529 to GA 11344 89445 (MG to the north end, 2d Platoon on the south).
- n. SBF 3 engages CO Obj 2.
- o. 3d Platoon moves east (90 degrees) towards GA 1121 8975. Mortars shift to notional deep targets.



- p. 2d Squad, 3d Platoon, occupies SBF 4 at **GA 11259 89818 to 11259 89849** and engages Co Obj 2.
- q. 1st and 3d Squad, 3d Platoon, moves northeast to assault position at **GA 11323 89901 to 11374 89948**.
- r. SBF 4 ceases fires. SBF 3 shifts fires. 3d Squad, 3d Platoon, assaults the trenchline at Co Obj 2.
- s. SBF 3 ceases fires.



- t. Once the trench is clear and Co Obj is secure, 3d Platoon consolidates oriented northwest to northeast.
- u. 2d Platoon (SBF 3) orients northeast to southeast.
- v. Mortars displace, moving northeast along the road to secondary position southwest of Co Obj 2.
- w. 1st Platoon departs Co Obj 1 and moves north-northeast through SBF 3 and Co Obj 2 to occupy the ridge at GA 1165 9010, orienting north to east.
- x. Machinegun section displaces to the ridgeline at GA 1165 9010 and is emplaced within 1st Platoon. Mortars occupy MP 2 in the vicinity of Co Obj 2. LOA.



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

18 December 2014

MEMORANDUM FOR Commander, L/2/23rd Marine (USMC), Attn: GySgt Thomas M Donovan, Fort Benning, GA 31905

SUBJECT: L -3-23d Marines Company Maneuver Live Fire on DPMRC DRAW Review

1. References.

a. L -3-23d Marines Company Maneuver Live Fire on DPMRC DRAW Review (13 March – 12 April 2015)

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

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

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, 02 December 2014.

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

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

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

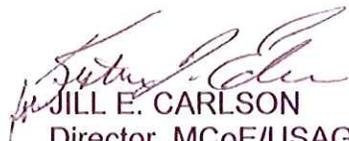
2. Document received on 17 December 2014.

3. Concur/ comment.

a. DRAW, Block 12, pg 7. The Risk Approval Authority is the Commanding General, MCoE for this event, in accordance with MCoE Policy Memorandum 385-6-1, paragraph 3b(6), dated 30 October 2014.

ATZB-SO
SUBJECT: L -3-23d Marines Company Maneuver Live Fire on DPMRC DRAW Review

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



JILL E. CARLSON
Director, MCoE/USAG Safety

DELIBERATE RISK ASSESSMENT WORKSHEET

1. MISSION/TASK DESCRIPTION COMPANY LIVE FIRE AND MANEUVER DMPRC	2. DATE (DD/MM/YYYY) 13MAR2015-12APR2015
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3. PREPARED BY

a. Name (Last, First Middle Initial) DONOVAN, THOMAS M	b. Rank/Grado GYSGT/E-7	c. Duty Title/Position OPERATIONS CHIEF
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d. Unit L CO 3D BN 23D MAR	e. Work Email thomas.donovan@usmc.mil	f. Telephone (DSN/Commercial (Include Area Code)) (334)274-3805 ext 258
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g. UIC/CIN (as required) M14138	h. Training Support/Lesson Plan or OPORD (as required)	i. Signature of Preparer DONOVAN.THOMAS. MICHAEL.1028289339 <small><i>Digitally signed by DONOVAN.THOMAS.MICHAEL.1028289339, DN: cn=DONOVAN.THOMAS.MICHAEL.1028289339, o=USMC, ou=USMC, email=DONOVAN.THOMAS.MICHAEL.1028289339, Date: 2015.02.11 11:34:59 -0500</i></small>
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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
<input type="checkbox"/> + <input type="checkbox"/> -	COMPANY LFAM	ACCIDENTAL DISCHARGE	II	1. Issue a safety brief prior to the start of training. Strictly enforce weapons safety and ammunition accountability after the exercise. Wear full PPE (MTV with front and rear SAPI, helmet, hearing protection, eye protection, gloves), during practice and live runs. All weapons will be visually and physically inspected prior to coming off the range.	How: 1. Ensure Marines follow all weapon safety procedures. Who: 1. OIC/RSO, PSOs, SMUL	M
<input type="checkbox"/> + <input type="checkbox"/> -		FRATRICIDE	II	1. BN Commander will validate the range and scheme of maneuver prior to the training. 2. Conduct range reconnaissance prior to training. Verify targets and scheme of maneuver is in accordance with range fans and SDZ. 3. Ensures all Marines	How: 1. Proper training in accordance with T&R Manual. Who: 1. CO, OIC/RSO, SMUL	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
<input type="checkbox"/> + <input type="checkbox"/> - <input type="checkbox"/> + <input type="checkbox"/> - <input type="checkbox"/> + <input type="checkbox"/> - <input type="checkbox"/> + <input type="checkbox"/> - <input type="checkbox"/> + <input type="checkbox"/> -				<p>have completed familiarization and qualification with their respective weapon system.</p> <p>4. Ensure all Marines are following proper weapons handling techniques during movement to prevent flagging or unsafe condition.</p> <p>5. Ensure company</p>	<p>How: 2. Detailed planning, reconnaissance, walk-thru, and dry, and blank-run prior to execution.</p> <p>Who: 1. OIC/RSO, PSOs, SMUL.</p>	
				<p>conduct rehearsals prior to execution of live fire exercise.</p> <p>6. Ensure that all billet assignments remain the same during live fire rehearsals and execute the same scheme of maneuver.</p> <p>7. A PSO will be positioned with each squad during rehearsals</p>	<p>How: 3. Conduct pre-combat inspection completed on personnel and equipment.</p> <p>Who: 1. SMUL.</p>	
				<p>and live fire.</p> <p>8. Maintain communication between support and maneuver elements and have a redundant signal plan.</p> <p>9. Maintain safe geometries of fire.</p> <p>10. Machineguns utilize tripod, traversing and depression stops to</p>	<p>How: 4. Detailed safety brief to all Marines and Sailors</p> <p>Who: 1. OIC/RSO</p>	
				<p>ensure safe geometries of fire.</p> <p>11. PPE (MTV with front and rear SAPI, helmet, hearing protection, eyeprotection, gloves) will be worn downrange.</p> <p>12. Corpsman with medical bag will follow each platoon during execution. Safety vehicle</p>	<p>How: 5. Corpsman follows in trace of each platoon.</p> <p>Who: RSO, corpsman</p>	
				<p>and Corpsman will be staged at the tower. Rehearse MEDEVAC procedures with key personnel.</p> <p>13. All weapons will be visually inspected prior to coming off the range.</p>	<p>How: 6. Line out every Marine after consolidation at the end of the range. Punch machinegun barrels.</p> <p>Who: RSO</p>	

	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
<input type="checkbox"/> + <input type="checkbox"/> -	COMPANY LFAM (cont)	WEAPONS/ AMMUNITION MALFUNCTIONS	II	1. Ensure all Marines have been trained on loading, firing, remedial and immediate action, misfire procedures, and clearing weapons. Clean weapons before and after firing.	How: 1. Ensure Marines have rehearsed weapons handling in accordance with corresponding TM	M
					Who: 1. OIC/RSO, SMUL, INDIVIDUAL MARINES	
<input type="checkbox"/> + <input type="checkbox"/> -		HEARING LOSS	II	1. Conduct inspections to ensure each Marine has proper hearing protection prior to firing	How: 1. Conduct PCC/PCIs IOT ensure Marines are in accordance with MCO 6260.1 and unit SOP.	M
					Who: 1. OIC/RSO, SMUL	
<input type="checkbox"/> + <input type="checkbox"/> -		HEAT CASUALTY	II	1. Water cans staged on range. Water levels monitored and re-filled as needed. 2. Enforce hydration. Monitor water consumption. 3. Check weather reports routinely. 4. Ensure Marines bring cold and wet weather gear.	How: 1. Briefs hazards to Marines during safety brief. Monitor weather. Supervise hydration.	M
					Who: OIC/RSO, Co GySgt, SMUL	
<input type="checkbox"/> + <input type="checkbox"/> -				5. Ensure time is allowed for donning/stripping of gear. PCC/PCI conducted to make sure Marines are properly dressed and carrying water.	How:	
					Who:	
<input type="checkbox"/> + <input type="checkbox"/> -		SNAKE BITES/ WILDLIFE ALLERGIC REACTION	M	1. Inform Marines during safety brief of local plants and wildlife that are hazardous. 2. Marines will notify OIC/RSO and corpsman of any incident. MEDEVAC plan in case of emergency. 3. ID Marines with allergies.	How: 1. RSO will issue safety brief warning Marines of indigenous hazards.	L
					Who: 1. OIC/RSO, PSO, SMUL	

	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
+		MINOR BODILY INJURY/ FALLS	M	1. Issue a safety brief to all Marines prior to the start of training. Include an orientation of the training area.	How: 1. Marines will be advised of the hazards of the terrain and given a safety brief.	L
	-				Who: 1. OIC/RSO	
+		SEVERE WEATHER	M	1. Monitor Range Control net for storm warnings. If lightning is imminent within 5m, radios will be turned off, Marines will move to a safe location away from ammunition storage.	How: 1. Monitor Range Control net. Designate consolidation area.	L
	-				Who: 1. CO, OIC/RSO	
+	MOVEMENT	VEHICLE ACCIDENT	M	1. Adequate rest plan 2. Detailed Movement/ Convoy Briefs. 3. Preventative maintenance/vehicle inspections. 4. Use of ground guide when near Marines. 5. Minimum of two Marines, driver and A-driver, to each vehicle.	How: 1. Issue movement/ convoy brief/safety brief. 2. Inspect vehicles prior to movement.	L
	-				Who: 1. OIC/RSO, Co GySgt, drivers	
+					How:	
	-				Who:	
+					How:	
	-				Who:	

	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
<input type="checkbox"/> + <input type="checkbox"/> -					How:	
					Who:	

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
FALLON KURT M	CAPT/0-3	INSPECTOR-INSTRUCTOR	FALLON.KURT.MICHAEL.1275028009 CHAEL.1275028009

Digitally signed by
FALLON KURT MICHAEL 1275028009
DN: c=US, o=U.S. Government, ou=DOD,
ou=FAA, ou=USMC,
cn=FALLON KURT MICHAEL 1275028009
Date: 2014.12.17 14:23:57 -0500

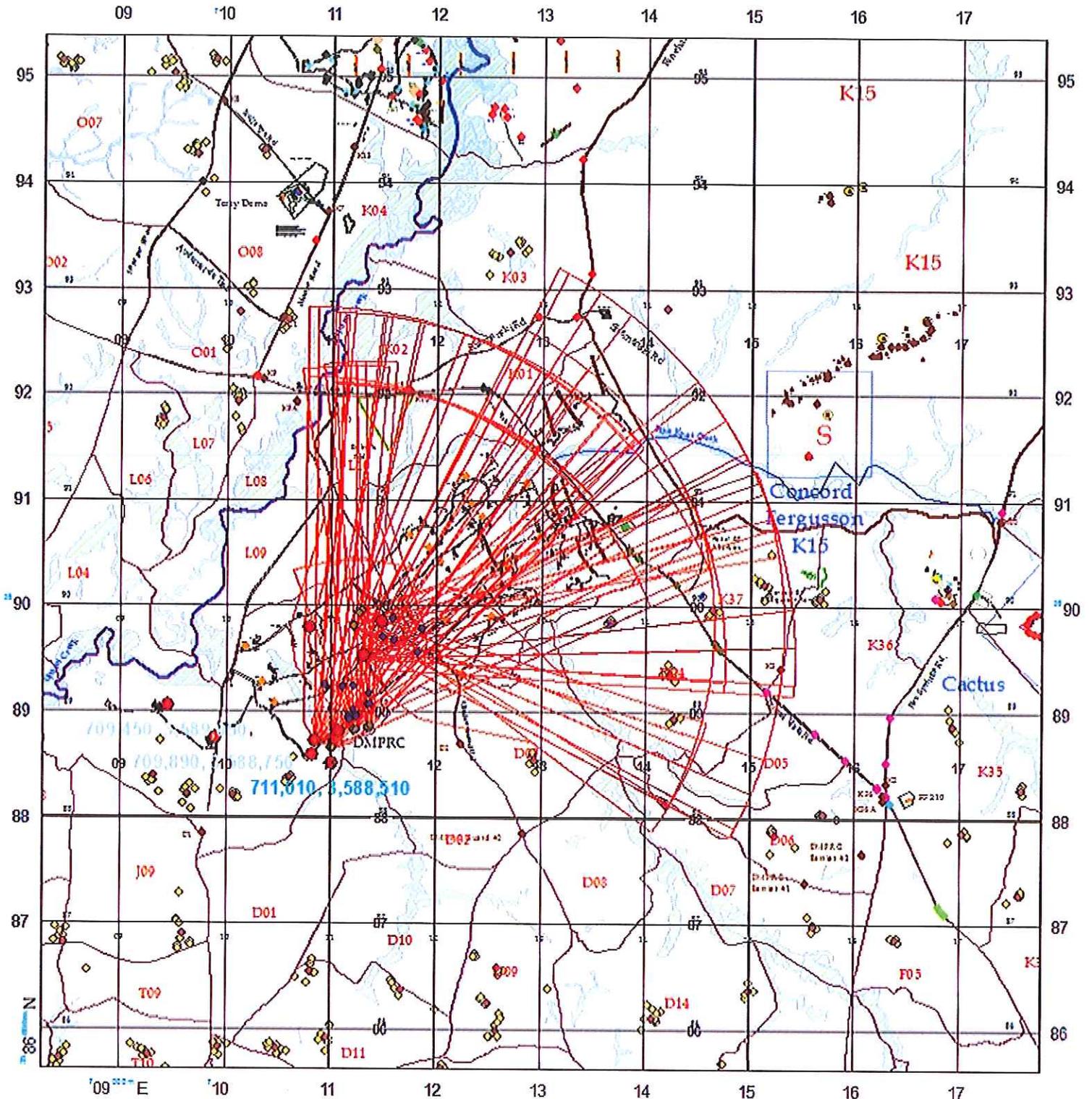
e. Additional Guidance:

Risk Assessment Matrix		Probability (expected frequency)				
		Frequent: Continuous, regular, or inevitable occurrences	Likely: Several or numerous occurrences	Occasional: Sporadic or intermittent occurrences	Seldom: Infrequent occurrences	Unlikely: Possible occurrences but improbable
Severity (expected consequence)		A	B	C	D	E
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

Weapon Type: SMALL ARMS

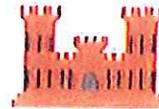
Weapon Caliber: composite



Range Manager Signature Authority:	Date:			
Approving Authority: Mr. Bolding	Date:			
SDZ Created By:	Date: 04/01/2016	Unit: Marines	Phone: 334-272-8843	Email:
SDZ Name: dmprcmrns log 1-4-15codis m/fx	FP: 16SGA1101788654	FP: 16SGA1131789529	FP: 16SGA1122489815	FP: 16SGA1121989799
Installation: Fort Benning	FP: 16SGA1084788719	FP: 16SGA1132689501	FP: 16SGA1122089798	FP: 16SGA1128589955
Range Name: DMPRC	FP: 16SGA1085888702	FP: 16SGA1132689500	FP: 16SGA1101688654	FP: 16SGA1126089933
Range Officer: GySgt Donovan	FP: 16SGA1122488820	FP: 16SGA1128589954	FP: 16SGA1135688824	FP: 16SGA1126899927
Direct Fire	FP: 16SGA1125288820	FP: 16SGA1126189931	FP: 16SGA1138088842	FP: 16SGA1084688719
Aerial Target	FP: 16SGA1122388822	FP: 16SGA1129899947	FP: 16SGA1135488865	FP: 16SGA1111869239
FP: 16SGA1089788659	FP: 16SGA1125288822	FP: 16SGA1126089920	FP: 16SGA1137888601	TP: 16SGA113689105



RECORD OF ENVIRONMENTAL CONSIDERATION
REC



Date Submitted: 03/31/2015

EMD Number: 1509008

Project IJO#: na

Project Title: Light Infantry Company dismounted attack

Description of proposed action:

Preparation, rehearsal, and staging time for company prior to executing company attack on the DMPCRC. Will travel from D-01 to the DMPCRC on foot. Upon entering the DMPCRC, the USMC Infantry company will fire and maneuver in a deliberate, dismounted attack.

Project Location:

D-01 training area and DMPCRC

Amount, Description, Location of Disturbance/Digging:

None

Number of Personnel:

150

Type Of Ammunition:

Ammunition Status: Live-A059-5.56 ball, A131- 7.62,

Number/Types of Trees:

None

Size of Project Area:

3000 Square Meters

Duration of Action:

Start:4/10/2015 Stop:9/30/2015

Unit, Section or Dept :

L Co 3dBN 23dMAR

Number/Types of Vehicles

No vehicles will be used in this training exercise.

Types of Aviation

None

Other Concerns

None

Proponent: Thomas Donovan

Decision: Concur with conditions

(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 2015

Hazardous Materials/Waste

Conditions:

Carlos Arlaschoa (706-545-1857), 4/1/2015

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 off 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 according to guidance provided by the

EMD Number: 1509008 **Project#** na

Project Title: Light Infantry Company dismounted attack

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.

Cultural Resources - Archeological **Conditions:** Edward Howard (706-545-1898), 4/1/2015

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

Natural Resources - TES **None** Mark Thornton (706-544-7079), 3/31/2015

No Comment.

Solid Waste/Recycling **None** Dorinda Morpeth (706-545-5337), 4/1/2015

No Comment.

CWA - Training **Conditions:** Jessica Loughman (706-604-4572), 4/2/2015

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 improper 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.

Natural Resources - RCW **Conditions:** Michael Barron (706-544-7080), 4/1/2015

See comments from Jonathan Neufeldt

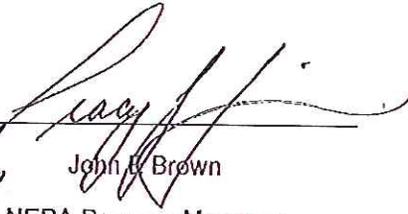
Natural Resources RCW - BRAC **Conditions:** Jonathan Neufeldt (706-544-7705), 4/3/2015

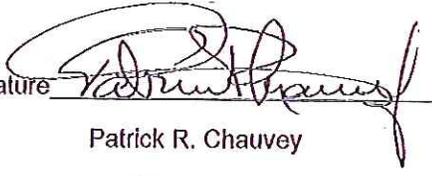
No live fire in woods. Only on DMPRC Range. See attached files 2007 Army RCW Guidelines Permitted Training in Clusters and DMPRC RCW Cluster-Cavity Tree and 200ft Buffer Map. Read the documents to prevent violations from occurring. Biologist

EMD Number: 1509008 Project# na

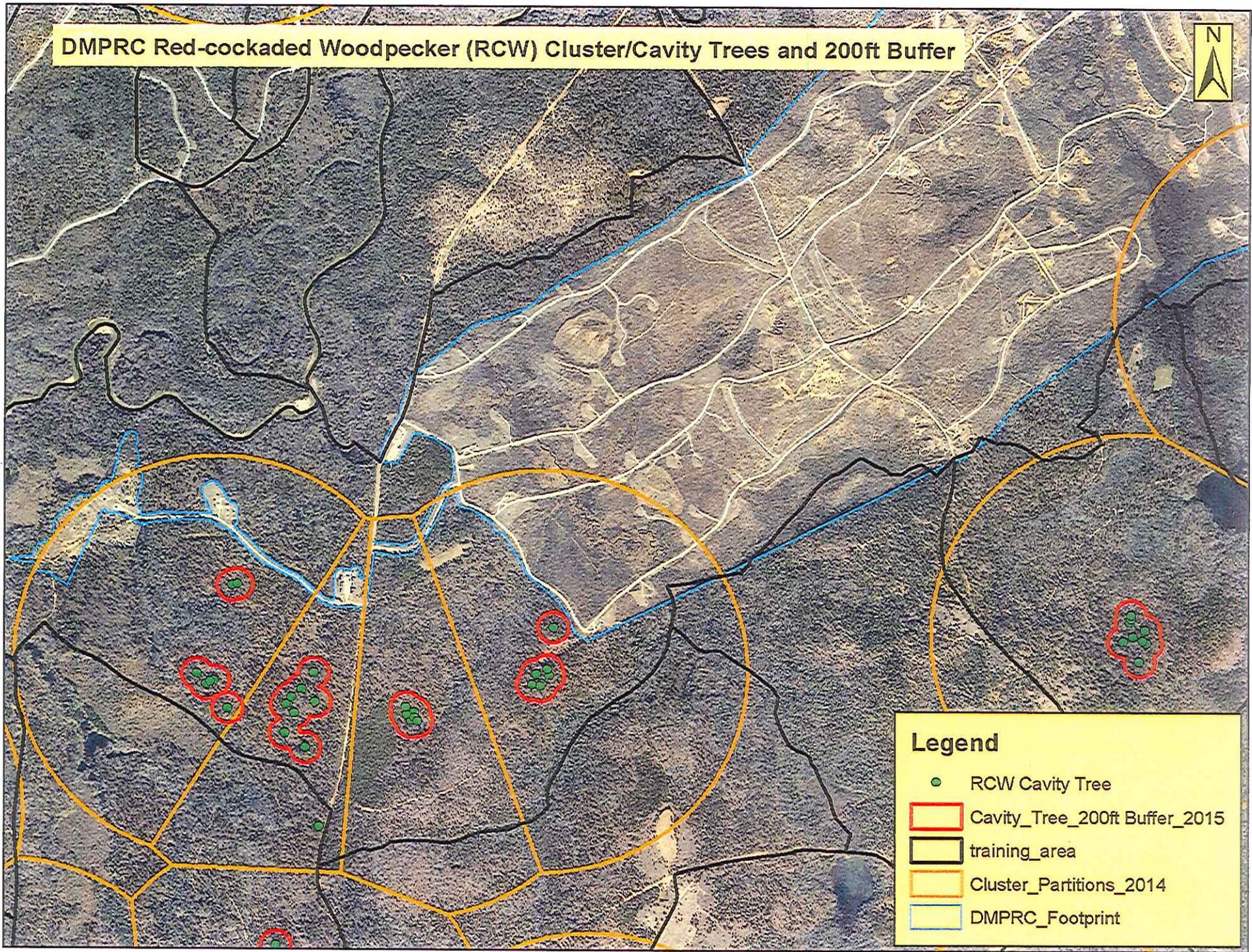
Project Title: Light Infantry Company dismounted attack

POCs are: Jonathan Neufeldt (706)544-7705, and Timothy Marston (706)544-7069.

Signature 
John W. Brown
NEPA Program Manager
Date 8 APRIL 2015

Signature 
Patrick R. Chauvey
EPMB Chief
Date 08 APR 2015

DMPRC Red-cockaded Woodpecker (RCW) Cluster/Cavity Trees and 200ft Buffer



Legend

- RCW Cavity Tree
- Cavity_Tree_200ft Buffer_2015
- training_area
- Cluster_Partitions_2014
- DMPRC_Footprint

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
<p>Spill kits should be maintained in and around all locations where hazardous material and hazardous waste are stored, handled, or disposed.</p> <p>The contents of a spill kit will vary depending on the hazardous materials and their characteristics.</p> <p>Hazardous materials other than POL will require spill kits to meet their specific requirements, (i.e., acid spill kit for Battery Shop that handles lead acid batteries).</p>	<p>Spill kits should include as a minimum:</p> <ul style="list-style-type: none"> ✓ Rubber gloves, ✓ Safety goggles, ✓ Putty, rubber mallet, ✓ Wooden plugs, ✓ Absorbent booms, ✓ Absorbent pads, ✓ Plastic bags, and ✓ In some cases, a disposal barrel.
<p>The Unit/Activity must check the material's MSDS for specific information on PPE and spill supplies.</p>	<p>Units/activities transporting hazardous materials should also plan for having a minimum amount of response materials on hand.</p> <ul style="list-style-type: none"> ✓ 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 field 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 ~17x19
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 than 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**