

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: 11 September 2012 Log #8-9-12
Range: DMPC
Title: Convoy LFX
Problem No:

THRU: Commander, 11th Engineer Battalion, 20th Engineer Brigade
Fort Benning, GA 31905
(706) 545-7614

FROM: S3, 11th Engineer Battalion, 20th Engineer Brigade
Fort Benning, GA 31905
(706) 545-4534

SECTION I, TYPE OF TRAINING

a. Live Fire b. Non-live Fire CP/Controller Coordinates: GA 0987 8875

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

Coordinates	Type	Model/DODAC	Size of Charges
N/A			

SECTION III, WEAPONS/AMMUNITION REQUESTED

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

SECTION IV, LIVE FIRE EXERCISES Attach the following:

- Scenario of training to be conducted:
- Sketch of area:
- Risk Assessment:
- Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:

SECTION V, NON-LIVE FIRE TRAINING

- Training area(s) to be occupied:**
- Scenario of training to be conducted:
 - Sketch of area(s) to be occupied:
 - Risk Assessment:

Name/rank of requesting officer:
Smith, James R. MAJ, EN S3 OIC

Name/rank of Major Unit S3/Commander:
Hussin, Christopher LTC, EN CDR

SECTION VI, FOR RANGE DIVISION USE

DATE: 20 Sep 12

TO: S3, 11th Engineer Battalion, 20th Engineer Brigade
Fort Benning, GA 31905
(706) 545-4534

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

- a. Roadblocks to be closed: See Roadblock/Guard List.
- b. Road(s) to be closed/road barrier locations:
- c. Remarks:
- d. This approval expires: 19 Sep 14

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



DEPARTMENT OF THE ARMY
HEADQUARTERS UNITED STATES ARMY MANEUVER CENTER OF EXCELLENCE
1 KARKER STREET
FORT BENNING, GEORGIA 31905-5000

REPLY TO
ATTENTION OF
ATZB-SO

20 September 2012

MEMORANDUM FOR Commander, 11th Engineer Bn, Attn: MAJ James R. Smith, Fort Benning, GA 31905

SUBJECT: Convoy Life Fire Exercise at the DMPRC Concept and Safety Review.

1. References.

- a. Convoy Life Fire Exercise at the DMPRC, 11 September 2012.
- b. Army Regulation 385-10, The Army Safety Program, 24 August 2007
- c. Army Regulation 385-63, Range Safety, 19 May 2003
- d. Department of the Army Pamphlet 40-501, Hearing Conservation Program, 10 December 1998
- e. Department of the Army Pamphlet 385-10, Army Safety Program, RAR 19 January 2010
- f. Department of the Army Pamphlet 385-30, Mishap Risk Management, RAR 01 February 2010
- g. Department of the Army Pamphlet 385-63, Range Safety, RAR 12 May 2009
- h. Field Manual 5-19, Composite Risk Management, August 2006
- i. MCoE Regulation 350-19, Range and Terrain Regulation, 23 July 2010

2. Document received on 19 September 2012.

3. Concur w/comment.

a. Concept Paper paragraph 5s, pg 4. Recommend that route recons, ambulance exchange points, establishment of HLZ, and a detailed MEDEVAC rehearsal be conducted prior to the commencement of all exercises.

b. Concept Paper paragraph 9, pg 5. Each ammunition hold area must have segregated Ammunition (blank & live), signage, and two 10 lb. BC fire extinguishers.

ATZB-SO

SUBJECT: Convoy Life Fire Exercise at the DMPRC Concept and Safety Review.

- c. CRMW, Block 11, pg 1. "Negligent Discharge", recommend that you add "Individual".
 - d. CRMW, Block 8, pg 2. "Fratricide", recommend that you add the Improved Outer Tactical Vest (IOTV) with all plates and the Advanced Combat Helmet (ACH) as control measures.
 - e. CRMW, Block 11, pg 3. "Heat", recommend that you add "Buddy Team" and "Individual".
 - f. CRMW, Block 8, pg 3. "Severe Weather", recommend that you coordinate with the U.S. Air Force observer at Lawson Army Airfield for the time period that you will occupy the training site and update as needed.
 - g. CRMW, Block 8, pg 5. "Vehicle Rollover", recommend that you add "gunner restraint harness" as a mandatory use item for all gunners.
 - h. CRMW, Block 8, pg 6. "Gunner Tossed from vehicle", recommend that you add "gunner restraint harness" as a mandatory use item for all gunners.
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

 GS-12
JILL E. CARLSON
Director, MCoE/USAG Safety

DMPRC, 11th Engineers (Log #8-9-12) Weapons/Ammo List Enclosure

Firing Positions	Weapons	Ammunition	Left Limit, Mils Grid Azimuth	Right limit, Mils Grid Azimuth
Zero: 1027 8918 to 1028 8913	M240 M2	7.62mm Blank/Ball/Tracer .50 cal Blank/Ball/Tracer	0810 0810	1445 1425
Engagement 1: 1043 8898 to 1075 8857	M240 M2	7.62mm Blank/Ball/Tracer .50 cal Blank/Ball/Tracer	0510 0555	1405 1355
Engagement 2A: 1170 8974 to 1166 8980 (See Note Below)	M240 M2	7.62mm Blank/Ball/Tracer .50 cal Blank/Ball/Tracer	0370 0370	1305 1305
Engagement 2B: 1160 8993 to 1158 8997 (See Note Below)	M240	7.62mm Blank/Ball/Tracer	0330	1155
Engagement 3: 1242 9072 to 1256 9041	M240 M2	7.62mm Blank/Ball/Tracer .50 cal Blank/Ball/Tracer	0440 0440	1550 1495
Engagement 4A: 1242 9022 to 1252 9010	M240 M2	7.62mm Blank/Ball/Tracer .50 cal Blank/Ball/Tracer	0435 0435	1380 1300
Engagement 4B: 1254 9007 to 1264 8991	M240 M2	7.62mm Blank/Ball/Tracer .50 cal Blank/Ball/Tracer	0640 0645	1325 1325
Engagement 5: 1075 8857 to 1043 8898	M240 M2	7.62mm Blank/Ball/Tracer .50 cal Blank/Ball/Tracer	0510 0555	1405 1355
<p>NOTE: Engagement 2A Starts on Underwood Road, 30m North West From the Concrete Pad at The Intersection of Underwood Road And Lane 4 And Ends on Underwood Road 70m From the Start. Engagement 2B Starts on Underwood Road 40m South East From The Concrete Pad at The Intersection of Underwood Road And Lane 3 And Ends on Underwood Road at The Concrete Pad at The Intersection of Underwood Road And lane 3.</p>				

DEPARTMENT OF THE ARMY
HEADQUARTERS, 11th ENGINEER BATTALION
6630 WAY AVENUE, BUILDING 2827
FORT BENNING GEORGIA 31905-5637

REPLY TO
ATTENTION OF

AFVK-11

11 September 2012

MEMORANDUM FOR Chief, Range Operations, DPTMS, ATTN: MR. TESCH FORT
BENNING, GA 31905

SUBJECT: Convoy Live Fire Exercise at the DMPRC. (Day)

1. Purpose: The purpose of this scenario is to promulgate the scenario for 11th EN BN Convoy Live Fire Tables. This is to ensure that the unit is trained and proficient in their duties as well as preparing them for future operations. All company commanders and key personnel will conduct a Tactical Exercise without Troops (TEWT) prior to the scheduled training, in order to discuss proper execution of the live fire exercise as well as all safety considerations. The Simulation Center (CCTT) and wheeled gunnery will be used as a gate to the live-fire (GTLF) in order to better prepare crews for the exercise.

2. Training Objective: The purpose of this operation is to certify crews, sections and platoons. In order to achieve this, 11th EN BN will administer Section and Platoon Qualification on the DMPRC. The above mentioned convoy live fire tables on the DMPRC will consist of lanes with vehicle specific targets.

3. References:

- a. FM 3-20.21 (HBCT)
- b. FM 23-14
- c. FM 3-22.65
- d. FM 3-22.68
- e. TC 25-8, Training Ranges
- f. AR 385-63 and DA PAM 385-63, Range Safety
- g. MCoE Regulation 350-19, Range and Terrain Regulation
- h. TM 9-1300-206, Ammunition and Explosives Standards

4. The following Live Fire Exercise (LFX) outlines the scenario for the 11th EN BN: for convoy live-fire with the Medium Machine Gun (M240B) and Heavy Barrel Machine Gun (M2) on mounted machine gun platform, HMMWV. **No soldiers will be dismounted during the convoy live-fire.** Safety precautions will be in place for vehicle engagements that involves firing towards the rear of any vehicle.

5. Execution:

a. The LFX will be conducted with four vehicles in linear convoy formation with a minimum of 10 meters and maximum of 50 meter (in engagement area 2) spacing between vehicles maintaining speed of 10 mph. Each convoy will consist of 4 M1151s with crew serve weapons (CSW), two M240B and two M2. Each M1151 will consist of a driver, vehicle

commander, gunner and safety. Patrols will stage at the loading pad at DMPRC. All patrols will conduct a dry fire and a blank fire run prior to the live fire. Patrols will not move on to the blank fire until they are successful at the dry fire and will not move on to the live fire until they are successful at the blank fire.

b. All engagement areas will be marked with cones and red flags to clearly identify the beginning and end of the engagement areas. Vehicles will maintain 10 meter spacing through engagement areas 1, 3, 4a, 4b and 5. In engagement area 2, vehicles will maintain 50 meter spacing. All check points will be clearly labeled with signs. All Gunners will engage targets only when in the engagement area and within their sectors of fire. Gunners will orient weapons downrange at all times.

c. All vehicle crews will zero their mounted crew serve weapons (M2 & M240B) in the zero engagement area just south east of BP4A (see attached CLFX sketch). After entering the zero engagement area gunners will load their mounted crew serve weapons and on command, commence zeroing on targets down range (see target list).

c. After the patrol has received their range safety brief and is cleared to proceed they will travel northeast to CP 1, the intersection of Hourglass Rd and Course Rd (GA 10054 89384), and turn right on Course Rd. The mounted crew serve weapons will remain cleared, unloaded and pointed down range (9 o'clock) on the HMMWVs until reaching CP2 (BP4A). Upon reaching CP2 all four vehicles will enter the zero zone (see attached sketch of range), spaced at 10 meter intervals, lock and load weapons and zero (see target list). Zeroing will be conducted from stationary position. After all four crews have zeroed they will enter engagement area 1 (CP3) engaging targets down range (see target list). **Upon exiting engagement area 1 (CP4), vehicle weapons will be cleared and rendered safe point down range (9 o'clock).** Vehicles will execute a left turn at BP5A (CP5), traveling northeast on Lane 5 at 10 meter intervals, 10mph with vehicle 1 weapon oriented to the 12 o'clock and vehicle 2, vehicle 3 and vehicle 4 weapons oriented to the 11 o'clock. Upon reaching BP5B (CP6) vehicles will execute a left turn and vehicles will increase spacing to 50 meters. All weapons will be oriented down range (3 o'clock) and after entering engagement area 2a & 2b (CP7) crews will engage targets down range within their sector (see target list). **Upon exiting engagement area 2b (CP8) vehicle weapons will be cleared and render safe and vehicles** will continue moving to the intersection of Lane 3 and Underwood Rd (CP9) and turn right heading northeast on lane 3. All vehicles will return to 10 meter spacing, traveling 10mph for approximately 1100 meters with the lead vehicles weapon oriented to the 12 o'clock and second, third and fourth vehicles weapons oriented to the 11 o'clock. Upon reaching the intersection at BP3C (CP10), access road behind M202, vehicles will execute a right turn, weapon will be oriented down range (8 to 9 o'clock) and upon entering engagement area 3 (CP11) the gunner will load their mounted weapon and engage targets down range within their sector (see target list). **Upon exiting engagement area 3 (CP12) vehicle crew serve weapons will be cleared and render safe** and will continue moving to the intersection of Lane 4 (CP13). All vehicles will then execute a right turn traveling southwest from the intersection at 10 meter spacing, 10 mph with vehicle 1, vehicle 2 and vehicle 3 weapon oriented to the 8 o'clock and the vehicle 4 weapon oriented to the 6 o'clock. Upon reaching CP14 (first left past BP4C) vehicles will execute a left turn, crew serve weapon will be oriented down range (9 o'clock). Upon the last vehicle entering the engagement area 4a (CP15) vehicles will engage targets in there sector (see target list). Upon exiting engagement area 4a (CP16) vehicles will cease fire until entering engagement area 4b (CP17) past the intersection with lane 5. Upon entering engagement area 4b (CP17) vehicles will engage targets within their sector (see target

list). **Upon exiting engagement area 4b (CP18) vehicle crew serve weapons will be cleared and render safe** and will continue moving to the intersection of Lane 6 (CP19). Vehicles will execute a right turn at the intersection of Lane 6 (CP19) and travel southwest down Lane 6 from CP18 at 10 meter spacing, 10 mph with the vehicle 1, vehicle 2 and vehicle 3 weapons oriented to the 4 o'clock and the vehicle 4 weapon oriented to the 6 o'clock. Upon reaching BP6B (CP20) convoy will turn right on Underwood Rd heading northwest with weapons oriented down range (3 o'clock). At BP5B (CP6) convoy will turn left heading southwest with the vehicle 1, vehicle 2 and vehicle 3 weapons oriented to the 4 o'clock and vehicle 4 at the 6 o'clock. Upon reaching BP5A (CP5) vehicles will turn right and enter engagement area 5. Once all vehicles are staged, vehicle 1 will then proceed into engagement area 5, lock and load, and begin engaging targets down range. Vehicle 2, vehicle 3 and vehicle 4 will follow the same process as vehicle 1 in sequential order while maintaining 10 meter spacing between vehicles. Vehicle 1 will stage at BP4A (CP2) until all vehicles have exited engagement area 5 (CP3), are staged behind vehicle 1 (CP2), and **crew serve weapons are cleared and rendered safe. All crews' weapons will be cleared and render safe after exit engagement area 5.** At this time the convoy live fire is complete for this patrol. Once the RSO has verified all weapons are cleared patrol will then proceed back to CP1 (loading pad) via Course Road. Once the first patrol has reached CP1, the Ammunition NCO will radio the RSO that the second patrol will SP CP1 and begin the next iteration of the CLFX.

d. All vehicles will be equipped with SINGAR radios; the Patrol Leader will have dual net. Patrols will communicate via FM, all targets will be positively identified and called out. All vehicles will call up entering engagement areas, existing engagement areas, turns, weapons status and cease fire (in the event of a safety issue). The word "**CHECK FIRE**" will be used to stop all firing on the range. Each patrol will have safeties in all four vehicles. One RSO will be staged at CP2 in a HMMWV to clear all vehicles leaving the range. All vehicles will stage at CP 1 (weapons will not be loaded), the first vehicle will travel southeast on Course Rd, turn left onto Lane #3 and occupy CP 2 (BP3A). The vehicles will then proceed back to the loading point CP 1 via Course Road. RSO will proceed to CP 2 and will wait for the call from the Ammunition NCO that the first vehicle has reached CP 1 in order to start the next LFX. Vehicles will maintain their weapons up and down range at all times. Once crews are ready and they are cleared to begin the LFX by the RSO they will engage their respective targets (SEE TARGET LIST).

e. Upon completion of each engagement the weapon will be cleared by and verified by the RSO. After the weapon system has been cleared the crew will proceed.

f. Ammunition will be taken from the ammo pad and placed on the back of the designated vehicle and transported to CP 2 (BP4A). Ammo pad is located at: (SEE ATTACHED SKETCH OF RANGE).

g. Each vehicle will conduct a radio check with the Control Station prior to heading down to load their ammunition (at BP4A). All Commands will be given by the Control Station to the firing vehicles by radio.

h. When instructed to do so the vehicle firing will place all weapon systems on manual fire and engage targets down range IAW target list.

i. When all firing has been completed the RSO will move forward CP 2 (vic BP4A) and clear each vehicle as they complete the CLFX.

j. Concurrent training will be conducted IAW unit SOP. All concurrent training will be conducted at the vehicle staging area with no ammunition. Location of concurrent training is grid GA 1002 8925 (SEE ATTACHED SKETCH OF THE RANGE).

k. Zeroing of all weapons will be conducted in the Zero Area (see attached sketch) before conducting the live fire (see target list).

l. All road blocks will be placed IAW MCOE REGULATION 350-19 and roadblock enclosure. All participants will receive a detailed safety briefing from the RSO prior to conducting training. A thorough range orientation will be given to all personnel on the range. Hearing protection will be provided to all personnel on the range. Medics will be present on the range at all times during the live fire/non-live fire training. The OIC will ensure all key personnel and medical support will be briefed on the evacuation Route and Medics have the correct forms needed on the range for live fire.

mi. All weapons firing will be observed to ensure that rounds are impacting within the range fan. Each VC will enforce positive target ID ensuring that the targets being engaged are IAW the target list and engagement area. All weapons will be cleared by the RSO or Master Gunner prior to movement from the range.

n. Constant radio communication will be maintained by the OIC with Range Control during the entire exercise and will receive the appropriate opening and closing codes from Range Control prior to the commencement and conclusion of training.

o. All safety procedures for direct weapons will be in accordance with the attached risk assessment. Radio communications will be maintained with all vehicles via FM from a control radio at the Control Station. If Communication is lost between the crews and the Control Station, crews will cease fire until communications have been restored. Anyone witnessing an unsafe act will immediately give the verbal, Hand and Arm signal, and make sure all range operations shut down.

p. All misfire procedures will be handled IAW FM 3-20.21 HBCT manual. All live ammo will be turned into the AMMO NCO at the end of each LFX for proper turn in to the ASP. The OIC, RSO, and AMMO NCO will be notified of any live or damaged ammunition found on the firing vehicles and turned into the Ammo point for the proper disposal at the ASP.

q. All weapons malfunctions will be corrected by the gunner and/or vehicle commander on the vehicle, if the problem cannot be corrected the crew will notify the Tower and the Master Gunner will move to the vehicle and correct the problem.

r. All vehicles will place their weapon system on manual safe after each engagement and prior to moving to their next position.

s. The OIC will ensure medical personnel on the range have the evacuation routed to the hospital along with 9-Line MEDEVAC procedures at the medic point. The OIC will also be able to call a MEDEVAC using the radios on the E911 frequency. The landing zone location will be located behind the range (SEE ATTACHED SKETCH).

7. **Communications:** Unit will maintain continuous contact with Range Control at all times. If communications are lost the unit will go into a self induced check fire until communications are restored.

8. **Medical:** In the event of an accident, injury or illness, the OIC/RSO will immediately call a cease fire then call 911 using the standard 9 Line MEDEVAC to determine what type of evacuation is the most appropriate for the injury (loss of life, limb or eyesight). MEDEVAC will

be IAW MCoE Regulation 350-19 and USAIC 40-2. Landing zone for MEDEVAC aircraft will be established prior to use and will be marked appropriately. Range Control will be notified in this event. The cease fire will remain in effect until cleared through Range Control.

9. **Ammunition:** Blank and live ammunition will be marked and separated at the ammunition point and only issued for the correct iteration. There will be no de-linking or re-linking of any ammunition. Any ammunition that has been de-or re-linked is considered nonstandard and is prohibited from the range.

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

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

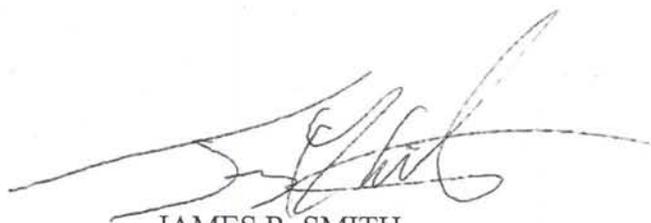
- a. Designation of Unit
- b. Range and location
- c. Type of weapon involved
- d. Type of ammunition involved
- e. Brief summary of what happened
- f. Personnel injuries and extent
- g. Full name, SSN, Rank and unit of injured personnel
- h. Extent of Property damage
- i. Intentions regarding an AR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

13. Responsibilities:

- a. Battalion will provide necessary range personnel and equipment.
- b. Provide range personnel with the firing orders 1 week prior to first range day.

14. Unit will maintain continuous contact with Range Control at all times. If communications are lost the unit will go into a self induced check fire until communications are restored.

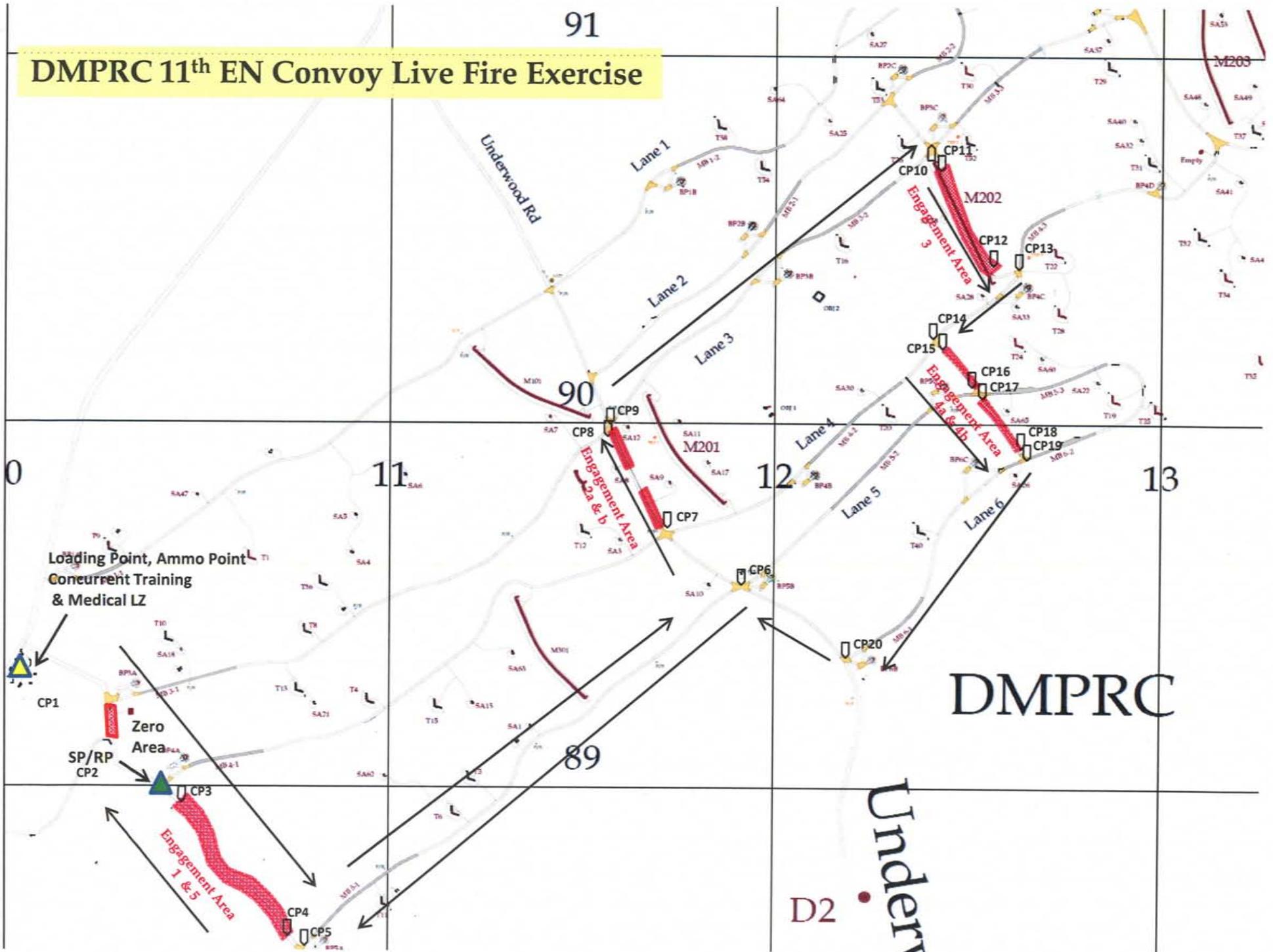
15. POC for this exercise is CPT Christopher Baker at 706-545-5047 or christopher.a.baker2.mil@mail.mil.

A handwritten signature in black ink, appearing to read 'J.R. Smith', with a long horizontal flourish extending to the right.

JAMES R. SMITH
MAJ, EN
Operations Officer

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DMPRC 11th EN Convoy Live Fire Exercise



Loading Point, Ammo Point
 Concurrent Training
 & Medical LZ

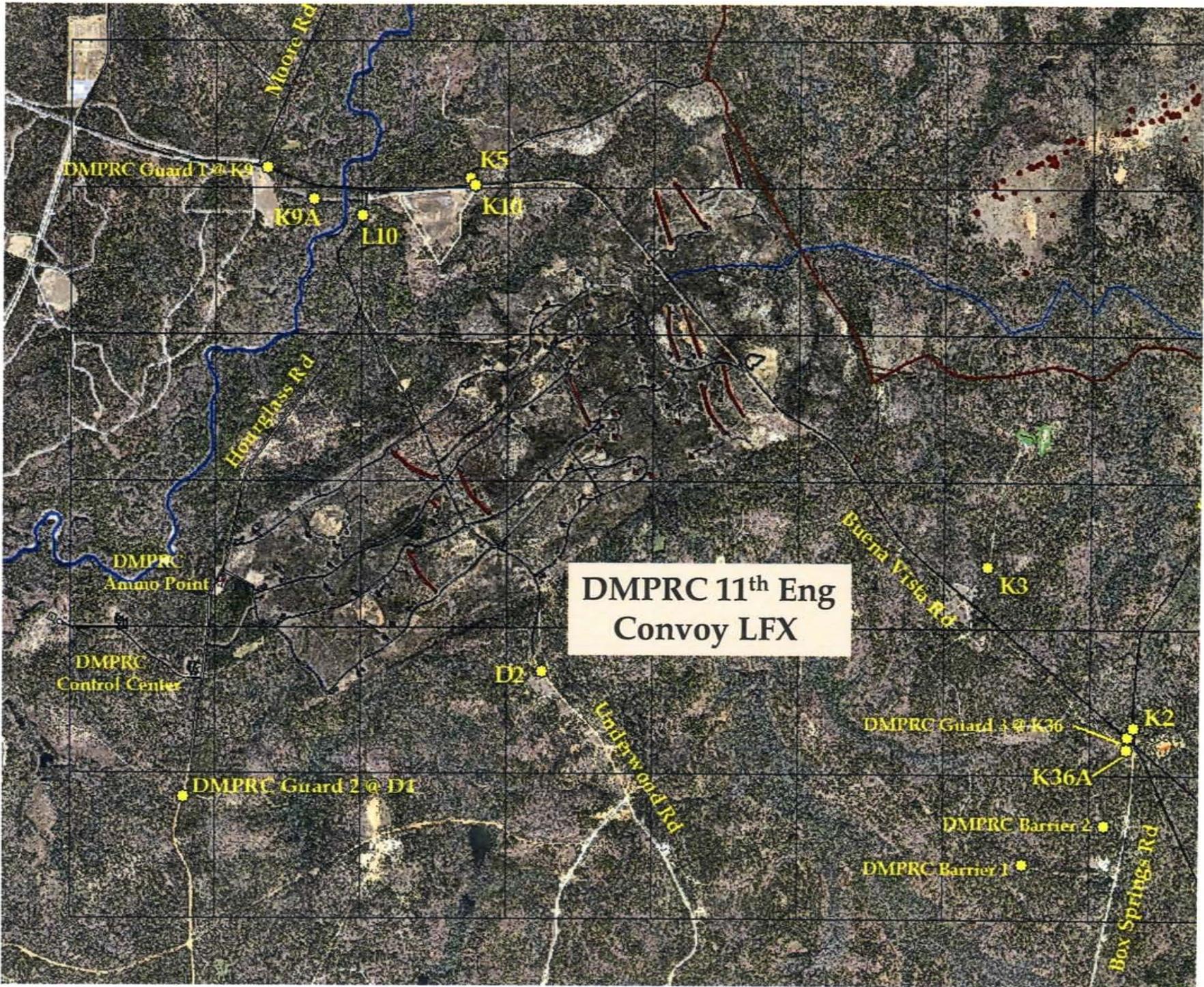
DMPRC

Under

D2

DMPRC, 11th Engineers (Log #8-9-12) Target List Enclosure

Firing Positions	Weapons	Targets
Zero: 1027 8918 to 1028 8913	M240 M2	T: 8, 13, 36. SA: 4, 5. SA: 3, 4, 5, 6, 7, 8, 9, 11, 12, 17, 63. M: 201.
Engagement 1: 1043 8898 to 1075 8857	M240 M2	T: 15. SA: 1, 13, 63. (T4 from 1st 1/2; T: 5 & 6, SA63 From 2nd 1/2). SA: 3, 8, 9, 10, 11, 12, 13, 17, 63. M: 201, 301. (SA 1 & 62 From 2nd 1/2).
Engagement 2A: 1170 8974 to 1166 8980	M240 M2	SA: 9. M: 201 (See Note Below). SA: 9. M: 201 (See Note Below).
Engagement 2B: 1160 8993 to 1158 8997	M240	SA: 12.
Engagement 3: 1242 9072 to 1256 9041	M240 M2	T: 29, 37. (T31 from 2nd 1/2). SA: 32, 37, 40, 43, 48, 49, 53. M: 203, 204. SA: 32, 37, 40, 43, 48, 49, 53, 54, 57, 61. M: 203, 204, (RT 1/2 M103).
Engagement 4A: 1242 9022 to 1252 9010	M240 M2	T: 22, 28, 31, 32, 34, 37. SA: 32, 33, 40, 41, 42, 48. SA: 21, 32, 33, 40, 41, 42, 43, 44, 48, 49, 50, 53. M: 203, 204.
Engagement 4B: 1254 9007 to 1264 8991	M240 M2	T: 32, 34. SA: 41, 42. M: 302. (T 19 & 35, SA 22 & 24 From 2nd 1/2). SA: 38, 41, 42, 44, 50, 52 (SA 22 & 34 From 2nd 1/2). M: 302, 303.
Engagement 5: 1075 8857 to 1043 8898	M240 M2	T: 15. SA: 1, 13, 63. (T4 from 1st 1/2; T: 5 & 6, SA63 From 2nd 1/2). SA: 3, 8, 9, 10, 11, 12, 13, 17, 63. M: 201, 301. (SA 1 & 62 From 1st 1/2).
NOTE: The Engagement Area For M201 Starts 92m From The Right End And Ends 78m From The Start.		



**DMPRC 11th Eng
Convoy LFX**

DMPRC 11th Engineers Convoy LFX Roadblock List, Log #8-9-12, 11 September 2012							
BLOCK	GRID	LOCATION	TYPE	BLOCK	GRID	LOCATION	TYPE
K-2	163 883	Across Box Springs Rd 125m N. of its intersection with Buena Vista Rd.	Gate	K-38	201 941	Across unnamed trail 35m W. of its intersection with the east boundary road. Permanently closed.	Cable
K-3	153 894	Across entrance road leading to Concord OP 250m N. of its intersection with Buena Vista Rd.	Gate				
K-5	117 920	Across Shamanski Rd 25m N. of its intersection with Buena Vista Rd.	Gate	K-39	202 949	Across unnamed trail 15m W. of its intersection with the east boundary road. Permanently closed.	Cable
K9	103 921	On Buena Vista Road 50m East of its intersection with Moore Road.	Gate				
K9A	107 919	On Tank Trail approximately 220m East of Upatoi Creek.	Gate				
K10	118 920	Across Buena Vista Rd at K-5 road block.	Gate				
K-16	190 003	Across Rinehart Rd 100m W. of its intersection with Box Springs Rd.	Gate	K-41	192 944	Across Kennesaw Trail 30m W. of its intersection with Box Springs Rd.	Cable
K-28	191 885	Across Whitson Rd 15m W. of its intersection with Cactus Rd.	Cable	K-42	194 956	Across Box Springs Rd 1200m N. of its intersection with Cactus Rd.	Gate
K29	189 888	Across un-named trail on Cactus Range approximately 290m West of Cactus Road.	Gate				
K-30	190 890	Across un-named trail on Cactus Range approximately 370m West of Cactus Road.	Gate	L-10	110 918	North on Hourglass road South of Buena Vista road 175 meters past tank trail.	Gate
K-32	192 915	Across Shamanski Rd 35m W. of its intersection with Cactus Rd.	Gate	D-1	098 878	On Hourglass Road, 700 meters north of 1st Division Road.	Gate
K-36	162 882	Across Buena Vista Rd 50m W. of its intersection with Box Springs Rd.	Gate	D-2	122 887	On Underwood road approximately 900 meters north of Underwood and Plymouth road intersection.	Gate
K36A	163 882	Across tank Trail 35m W. of its intersection with Box Springs Rd.	Gate				

DMPRC 11th Engineers Convoy LFX Roadguard List, Log #8-9-12, 11 September 2012					
Guard #1	On Buena Vista Road at 103 921 (K9 roadblock) blocking traffic going East on Buena Vista Road.		Guard #3	On Buena Vista Road at 1628 8822 (K36 Roadblock) blocking traffic going North-West on Buena Vista Road.	
Guard #2	On Hourglass Road at 098 878 (D1 roadblock) blocking traffic going North on Hourglass Road. OIC will coordinate with Mr Cribb (706-626-2678) to inform Guard to allow limited access to the DMPRC Control Center.				

DMPRC 11th Engineers Convoy LFX Roadguard List, Log #8-9-12, 11 September 2012					
Barrier #1	On un-named trail at 1553 8738 blocking traffic going West.		Barrier #2	On un-named trail at 1608 8766 blocking traffic going West.	

COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK: 11 th EN Convoy Live Fire at DMPRC	2a. DTG BEGIN 2012/09/24	2b. DTG END 2013/09/24	3. DATE PREPARED (YYYYMMDD) 2012/07/19
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4. PREPARED BY

a. LAST NAME HARRIS		b. RANK 1LT	c. POSITION Battalion Safety				
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Convoy Live Fire Exercise	I.Negligent Discharge	H	<p>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 receive ammo. Soldiers will not receive ammo until they enter the firing line. Soldiers will only operate weapon systems that they are currently qualified on.</p> <p>2. All safeties will ensure weapons are treated as if they are loaded at all times and ensure Soldiers maintain muzzle awareness.</p> <p>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.</p> <p>4. Range OIC and safety NCO will go to a self imposed Check-Fire during accidents or injuries due to weapons fire.</p> <p>5. Any Soldier identified as a risk will be immediately removed from training, retrained and reinserted into training.</p> <p>6. Any Soldier who has an negligent discharge will be removed from training, retrained, and reinserted into training.</p> <p>7. RSO will visually observe Soldiers perform weapons clearing procedures in accordance with FM 3-22.9.</p> <p>8. OIC will ensure medics are on site to perform immediate aid if needed.</p>	M	<p>Range Safety brief</p> <p>Leader Involvement</p> <p>Rehearsal</p> <p>Continuous / Direct supervision</p>	<p>OIC/RSO</p> <p>NCO Supervision</p> <p>Range Safeties</p> <p>PL/PSG/SL</p>	

Additional space for entries in Items 5 through 11 is provided on Page 2.

13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check one)

LOW
 MODERATE
 HIGH
 EXTREMELY HIGH

14. RISK DECISION AUTHORITY

a. LAST NAME HUSSIN, CHRISTOPHER A.	b. RANK LTC, EN	c. DUTY POSITION BATTALION COMMANDER	d. SIGNATURE <i>Christopher A. Hussin</i>
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ITEMS 5 THROUGH 12 CONTINUED

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Convoy Live Fire Exercise	2. Fratricide	H	<p>1. Safeties will ensure weapons are elevated and pointed down range when moving on and off the range.</p> <p>2. Safeties will ensure weapons are on safe, and fingers are out of the triggers well unless Soldiers are engaging targets. No vehicle will begin moving unless his weapon is on SAFE.</p> <p>3. Soldier will conduct dry and blank exercises prior to live fire. Safeties will supervise Soldiers during dry and blank fire exercises to ensure Soldier use proper muzzle orientation during turning movement, and forward/lateral movement. Soldiers unable to show proficiency during dry and blank exercise will not be allowed to conduct live fire exercises until they are properly re-trained.</p> <p>4. Soldier that do not show proficiency during dry exercises will be sent to a remedial training station. Soldiers sent to the remedial training will be assessed by the remedial training NCO, OIC, and RSO prior to them being sent to live fire exercise.</p> <p>5. Soldiers unable or unwilling to execute dry runs to standard will not be allowed to execute the live fire exercise.</p> <p>6. All vehicles will communicate via FM calling up check points, engagements, status throughout entire Live Fire Exercise.</p> <p>7. Heightened awareness will be maintained throughout all live fire exercise and zero tolerance of negligent discharge will be enforced.</p>	M	<p>Range safety Brief</p> <p>Leader involvement</p> <p>Rehearsals</p> <p>Continuous/ Direct supervision</p>	<p>OIC/RSO</p> <p>NCO Supervision</p> <p>Range Safeties</p> <p>PL/PSG/SL</p>	
Convoy Live Fire Exercise	3. Ammunition Handling	M	<p>1. OIC/RSO will ensure blank and live ammunition is separated and not intermixed.</p> <p>2. No live ammunition will be kept at the designated range ammo point while blank ammunition is being used. If live ammo is on sight it will be kept in a containment area at least 50 feet away in sight of Ammo NCO at all times.</p> <p>3. Ammo point will be under positive control of the Ammo NCO.</p>	L	<p>Range safety Brief</p> <p>Leader involvement</p> <p>Rehearsals</p> <p>Continuous/ Direct supervision</p> <p>BN SOP for Ammo handling and storage</p>	<p>OIC/RSO</p> <p>NCO Supervision</p> <p>Range Safeties</p> <p>PL/PSG</p>	

ITEMS 5 THROUGH 12 CONTINUED

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Convoy Live Fire Exercise	4. Heat	M	Uniform will be enforced: Camelback will be worn. Soldiers who have had a previous heat injury will be identified prior to the operation, and will be closely monitored by leaders. OIC will ensure water buffalo is on site, and parked under shade. Continuously monitor weather advisories.	L	Range safety Brief Leader involvement Inspections Continuous/ Direct supervision	OIC/ RSO NCO supervision Buddy checks Leaders checks Medic	
Convoy Live Fire Exercise	5. Severe Weather	H	In the event of severe weather such as lightning Soldiers will discontinue firing and move to the designated lighting protection area.	M	Safety brief Leader Involvement Continuous / Direct supervision	OIC/ RSO Leader supervision PL/PSG	
Convoy Live Fire Exercise	6. Hearing loss	M	Soldiers will receive a clear, detailed safety brief. Soldiers will wear hearing protection when firing ammunition. Additional earplugs will be available and Soldiers will be notified of the existence.	L	Safety brief Leader Involvement PCC/PCI's Enforce Buddy checks	OIC/RSO Safeties NCO supervision Buddy checks	
Convoy Live Fire Exercise	7. Eye Injuries	L	All soldiers will wear prescription or ballistic glasses while firing on the Range. Any soldier sustaining an eye injury will be evacuated immediately to higher level medical care.	L	Safety Brief Leader involvement/ Leaders checks PCC/PCI's Enforce buddy checks	OIC/RSO Safeties NCO supervision Buddy system MEDIC	
Convoy Live Fire Exercise	8. 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 shocks.	L	Safety brief Leader involvement PCC/PCI's	OIC/RSO NCO supervision	
Convoy Live Fire Exercise	9. Soldiers Crushing Hands in HMMWV Doors and Turrets	M	1. Ensure all Soldiers understand how to properly enter and exit a HMMWV. A demonstration on door usage will be given prior to range operation. 2. Soldiers briefed to keep hands and fingers out of turrets gears.	L	Safety Brief Leader involvement	OIC/RSO NCO supervision	

ITEMS 5 THROUGH 12 CONTINUED

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Convoy Live Fire Exercise	10. Lost Soldiers	M	1. Safety brief will include measures to take if lost or separated. Should a Soldier become lost a sitrep will be provided to chain of command, BN, BDE, and range control. A thorough search will be conducted for the lost Soldier using all available manpower.	L	Safety brief Leader involvement Continuous/Direct supervision	OIC/RSO NCO supervision	
Convoy Live Fire Exercise	11. Road Conditions	M	1. Planned route will be briefed and a recon'ed prior to start of range. 2. Any significant hazards will be identified prior to the start of the range and all drivers will be briefed on road conditions and proper action to negotiate these hazards. 3. Weather conditions and their potential impact on the route will be briefed during the safety brief. 4. Standard Vehicle operating speed will be adjusted accordingly to conditions if necessary.	L	Safety Brief Leader involvement Continuous/Direct supervision	OIC/RSO NCO supervision	
Convoy Live Fire Exercise	12. Vehicle Fire Hazard	M	1. Each vehicle is to be regularly serviced at the motor pool and PMCSD daily by the driver. 2. Each vehicle will have a working fire extinguisher 3. There is no smoking within 60 ft of any vehicle.	L	Safety brief Leader involvement Continuous/Direct supervision Inspection	OIC/RSO NCO supervision	
Convoy Live Fire Exercise	13. Range Fire Hazard	M	1. There is no smoking within 60 ft of the ammunition point and there will be two 10 lb ABC fire extinguishers available. 2. A cease fire will be called if the fire has a potential to cause harm to Soldiers or equipment and the range control will be notified.	L	Safety brief Leader involvement Continuous/Direct supervision	OIC/RSO NCO supervision	

ITEMS 5 THROUGH 12 CONTINUED

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Convoy Live Fire Exercise	14. Vehicle Rollover	H	<ol style="list-style-type: none"> 1. All drivers will be properly licensed and certified in handling their assigned vehicle and know its weight and turn radius. 2. All drivers will be briefed on potential road hazards and weather conditions that may lead to rollovers. 3. Drivers will not drive faster than the briefed convoy speed. 4. All soldiers will receive rollover prevention and survival brief prior to the start of the range 5. All Gunners will remain at name-tape defilade while conducting training. 	M	<p>Safety brief</p> <p>Leader involvement</p> <p>Continuous/ Direct supervision</p> <p>Inspection</p>	<p>OIC/RSO</p> <p>NCO supervision</p>	
Convoy Live Fire Exercise	15. Vehicle Accident	H	<ol style="list-style-type: none"> 1. Each vehicle will be regularly serviced and PMCSD daily by the driver. 2. All drivers will be properly licensed and certified for their assigned vehicles 3. A thorough recon of the range will be conducted and driving speeds will be based on road and weather conditions. 4. Drivers will adhere to briefed driving speed at all times and maintain proper intervals. 5. A mounted rehearsal will be conducted prior to any Soldiers getting into a vehicle. 6. Driver will be briefed to no brake suddenly, unless in an emergency situation. 7. Drivers will be briefed on their one and only purpose: to safely drive the vehicle. They will understand that anything else must wait until they are stopped. 8. Ground guides will be used at times when moving the vehicles, except during the training iteration. 9. The safety brief will be include proper usage of seatbelt and proper latching of doors. 10. All Soldiers will wear protective equipment to include: IOTV with front and back plates, ACH, eye protection, and gloves. 	M	<p>Safety brief</p> <p>Leader involvement</p> <p>Continuous/ Direct supervision</p> <p>Inspection</p>	<p>OIC/RSO</p> <p>NCO supervision</p>	

ITEMS 5 THROUGH 12 CONTINUED

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Convoy Live Fire Exercise	18. Gunner Tossed from Vehicle	M	<ol style="list-style-type: none"> 1. Each vehicle is to be regularly serviced at the motor pool and PMCS daily by the driver. 2.. All drivers will be properly licensed and certified for their assigned vehicles 3. A thorough recon of the range will be conducted and driving speeds will be based on road and weather conditions. 4. Driver will be briefed to no brake suddenly, unless in an emergency situation. 5. All Soldiers will wear protective equipment to include: IOTV with front and back plates, ACH, eye protection, and gloves. 6. Drivers will be briefed on their one and only purpose: to safely drive the vehicle. They will understand that anything else must wait until they are stopped. 7. All Gunnery will remain at name-tape defilade while conducting training. 8. Drivers will follow briefed speeds at all times ad maintain intervals 	L	<p>Safety brief</p> <p>Leader involvement</p> <p>Continuous/ Direct supervision</p>	<p>OIC/RSO</p> <p>NCO supervision</p>	
Convoy Live Fire Exercise	19.Brakes Fail on Vehicle	M	<ol style="list-style-type: none"> 1. Each vehicle will be regularly serviced at the motor pool and PMCS daily by the driver. 2. Drivers conduct PMCS between training iterations. 3. Vehicle is FMC and Properly dispatched. 	L	<p>Safety brief</p> <p>Leader involvement</p> <p>Continuous/ Direct supervision</p> <p>Inspection</p>	<p>OIC/RSO</p> <p>NCO supervision</p>	
Convoy Live Fire Exercise	20. Flat Tire	M	<ol style="list-style-type: none"> 1. A thorough recon will be conducted and potential hazards will be identified and briefed to drivers. 2. Each vehicle will be regularly serviced at the motor pool and PMCS daily by the driver. 3. Driver will conduct PMCS between training iterations. 	L	<p>Safety brief</p> <p>Leader involvement</p> <p>Continuous/ Direct supervision</p> <p>Inspection</p>	<p>OIC/RSO</p> <p>NCO supervision</p>	

ITEMS 5 THROUGH 12 CONTINUED

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Convoy Live Fire Exercise	21. Shooting out of Range Fan	M	Soldiers will be briefed on their left and right range limits prior to the start of the range.	L	Safety brief Leader involvement Continuous/ Direct supervision	OIC/RSO NCO supervision Safeties	
Convoy Live Fire Exercise	22. Environmental Considerations	L	Soldiers will be briefed on the location of the latrines. The Range will be thorough policed of all range garbage, trash and dunage prior to closing. All vehicles on the range will use drip pans and chalk blocks when parked and a POL spill kit will be on the range.	L	Safety brief Leader involvement PCC/PCI's	OIC/RSO NCO supervision	
Convoy Live Fire Exercise	23. CASEVAC/MEDEVAC to Hospital	L	<p>1. OIC will conduct a reconnaissance of Martin Army Hospital's Emergency Room prior to the execution of the range in order to identify the location of 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.</p> <p>2. The OIC will call in a 9-line MEDEVAC through range control net in order to coordinate a medical exchange.</p> <p>3. The OIC will evacuate all serious injuries by air by calling a 9-line MEDEVAC through the range control net. The primary marking signal for air evacuation is red smoke</p> <p>4. The company ISG will go through a daily MEDEVAC rehearsal with the medics.</p>	L	Safety brief Leader involvement PCC/PCI's	OIC/RSO NCO supervision	

Risk Assessment Matrix

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

RISK LEVELS

Extremely High - Loss of ability to accomplish the mission.

High - Significantly degrades mission capability.

Medium - Degrades mission capability.

Low - Little or no impact to mission capability.

Examples

I/A = Extremely High

II/B = High

III/C = Medium

IV/D = Low

EFFECT

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

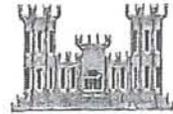
PROBABILITY

- A. FREQUENT - Occurs often - resources are continuously exposed.
- B. LIKELY - Occurs frequently - resources are exposed frequently and/or several times.
- C. OCCASIONAL - Occurs sometimes - resources are exposed sporadically.
- D. SELDOM - Remote occurrence - resources are possibly exposed.
- E. UNLIKELY - Rare occurrence of exposure



IMCOM
SOLDIERS + FAMILIES + CIVILIANS

RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



EMD Number: 1123001 Project#: WAR4A8 Project Title: Hammer Focus

Description of proposed action:

Unit will conduct a Combined Arms Live Fire Exercise (CALFEX)with Bradleys, Tanks, HMMWVs, and dismounted troops maneuvering downrange, along established lanes, utilizing the weapons systems listed below. See attached document for concept of operations. (Renewal -KP)

Project Location:

Digital Multipurpose Range Complex

Amount, Description, Location of Disturbance/Digging:

Tent Pegs

Number/Types of Vehicles:

29 Tank, 29 BFV, 8 M113, 6 LMTV, 20 HMMWV

Number of Personnel:

150

Type of Ammunition:

5.56,7.62,.50 cal,120mm,120mm mortar, pyro, grenade Live and Blank

Number/Types of Trees:

None

Size of Project Area: 11,000Square Meters

Duration of Action:Start: 10/1/2011 Stop: 9/30/2012

Proponent: craig.black 544-3865

Organization/Unit: 3RD BDE, 3RD ID

DECISION: Concur with conditions

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

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

REC APPROVED THROUGH 30 SEPTEMBER, 2012

Hazardous Materials/Waste

Conditions:

Dudley Carson (706 545 7570), 8/26/2011

Considerations for Field Training Exercises and Range Operations

1. Appropriate precautions must be taken to prevent hazardous material spills. Have adequate quantities of spill response supplies on hand. If a spill occurs use notification procedures as outlined in the Fort Benning Hazardous Waste Management Plan. Contain and clean up spill according to guidance provided by the Environmental Protection Management Branch. Any waste generated must undergo a waste stream analysis to determine appropriate management requirements. If any hazardous waste is generated it must be managed in accordance with Federal, State, Army and Fort Benning regulations.

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

-Closed containers (ammunition can marked 'MISFIRES") will be used for the collection of misfires at each firing range.

-The MISFIRE container will stay closed except to add or remove misfires.

-Misfires SHALL NOT BE COLLECTED in any open container or cardboard box.

All excess, unused munitions (including smoke canisters) must be returned to the Ammunition Supply Point (ASP) after the range operation is complete. Defective, misfired, or otherwise unserviceable munitions may be destroyed on the range, as part of the training exercise, in coordination with EOD.

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, dated 23 July 2010.

3. Rubbish, empty containers and other waste shall be removed from the training area after the exercise. Contact EPMB for detailed information on the proper disposal of waste products resulting from the exercise.

4. Contact POC for questions or additional guidance.

EMD Number: 1123001

IJO# WAR4A8

Project Title: Hammer Focus

CWA - Training

Conditions:

Jesse Taylor (706 545 0276), 9/2/2011

Environmental Review: Caution within training areas and motor pools should be taken to protect all nearby waterways (including perennial, intermittent streams and wetlands); as well as ground surfaces and any other sensitive areas in the vicinity of the training areas. Potential spills/releases from this activity that may occur before and/or during the FTX include: 1. Discharge and/or improperly disposal of oil or hazardous substances into or upon land, water, or into ground water areas from storage, handling and/or transportation of hazardous materials/waste; 2. Vehicle/equipment/generators leaks; 3. Fuel loading/unloading/refueling operations; 4. Field mess facilities/equipment/operations, and/or 5. Ammunitions /explosives (as applicable, before and/or during the FTX).

General SPCC Requirements: Ensure all hazardous materials are properly storage to prevent spill/discharges, to meet safety requirements for storage, and that containers are not exposed to the weather. Have adequate spill response supplies available during exercise for any spills that may likely occur. Use drip pans under vehicles and provide secondary containment for any fueling activities and hazardous material/waste storage. Locate all refueling operations and storage of hazardous materials/waste away from waterways and sensitive areas. See attached section on prevention procedures and CHECKlist (Figure 6.9.1) 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.

SPECIAL NOTE: See 2010 ASP SOP Training and Deployment.doc for further training requirements.

Natural Resources - RCW

Conditions:

Michael Barron (706 544 7080), 8/29/2011

Note: although this 144R does not mention the use of live fire from helicopters, this has been done recently. No existing EIS or EO authorizes the use of live fire from helicopters and thus is not allowed at this time. Helicopters may be used, but may not be fired from.

Cultural Resources - Archeological

Conditions:

Edward Howard (706-545-1898), 8/18/2011

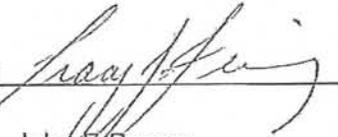
See attached JPEG maps for reference. The project area contains federally protected sensitive sites. These sites may be marked with Siebert stakes placed 20 - 30 meters apart which contain labels warning against ground disturbance. Training may be conducted in these sites so long as it does not disturb 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.

Noise

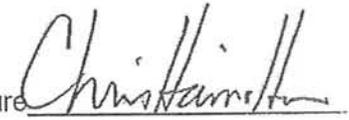
Conditions:

Ellis Leeder (706 545 7576), 8/22/2011

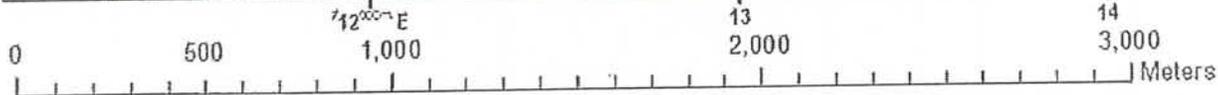
This is normal training operations that must be conducted. If there are any noise complaints received, the Environmental Management Division IONMP and or POA programs will investigate by determining if the noise was detected by noise detection monitors, and then recommending operational noise mitigation actions to the appropriate personnel for the training actions. In accordance with the Army's policy on environmental noise management, all efforts shall be made to minimize noise annoyances to the highest extent practicable with training operations without interfering with the proposed missions. Please follow the fly friendly program avoiding no fly zones. Please follow good smoke management practices not allowing smoke to travel off Installation boundary. If any assistance or a copy of MCoE Regulation 350-19 is needed please feel free to contact Ellis Leeder at 706.545.2400 or email ellis.leeder@us.army.mil

Signature 
for John E. Brown
NEPA Program Manager

Date 6 September 2011

Signature 
Christopher E. Hamilton, PhD
EPMB Chief

Date 7 Sep 11

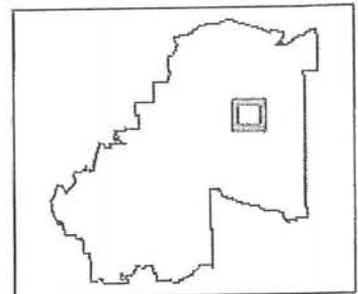


**Historic_bldings
STATUS**

- Historic
- Historic/FRL
- Not Evaluated
- Not Eligible
- Not Historic
- Demolished
- Moved to New NIM
- Frgm Cmt
- Frgm Cmt/FRL

**Historic Districts
Name**

- Lawson Army Airfield
- Main Post
- Parachute Jump Tower
- No Vehicles or ground disturbance

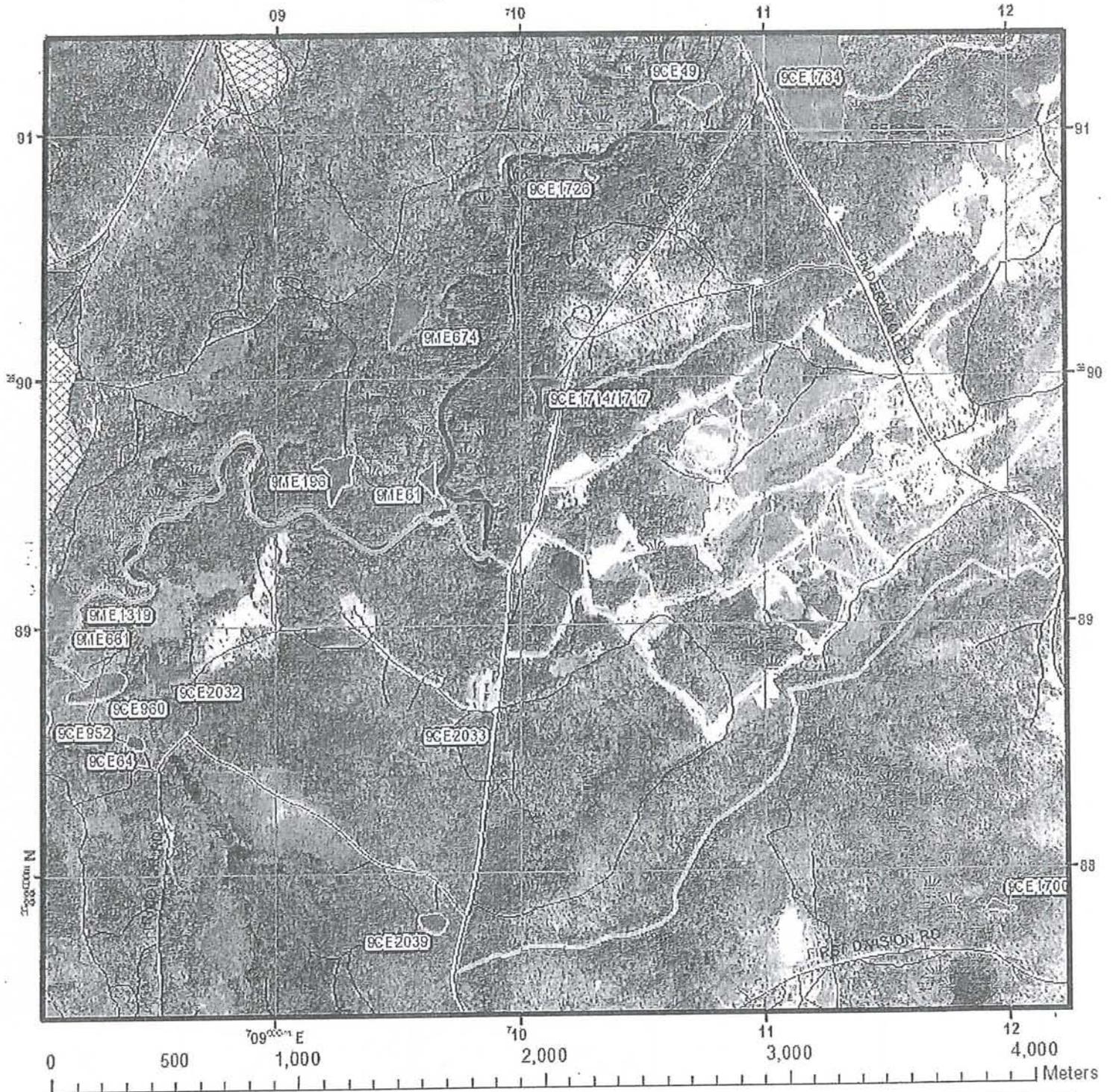


DPW-EPMB
Cultural Resources

DMPRC west

For Official Use Only, Not for Public Release
Ground Disturbing Activity In Protected Sites
Subject to Criminal and/or Civil Penalties

NAD 83
Grid in Meters



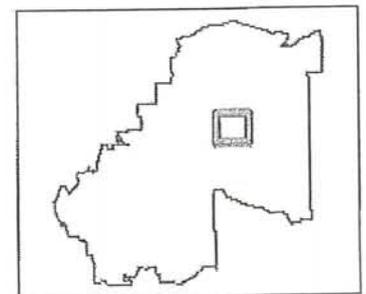
**Historic_bldings
STATUS**

- Historic
- Historic/FRL
- Not Evaluated
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- Demolished
- Moved to New NIM
- Prgm Cnt
- Prgm Cnt/FRL

Historic Districts

Name

- Lawson Army Airfield
- Main Post
- Parachute Jump Tower
- No Vehicles
or
ground
disturbance



DPW-EPMB
Cultural Resources

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 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 ~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 or 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**

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.)

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/NCIOC: _____

Training Area: _____

Grid Coordinates: _____

Date and Name: _____

Signature: _____

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

FIELD TRAINING EXERCISES AND DEPLOYMENT
GENERAL SPCC CHECKLIST
Figure 6.9.1

Units should continually keep HM/HW areas clean and orderly by applying the principals of Monitoring and Housekeeping. Vehicle Maintenance and Fuelling Points, HW Collection Points and HM Storage & Supply Areas may not be set up at your filed training area and/or deployment destination.

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

Plan to build your areas to prevent HM accidents before they occur. 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. If water is contaminated, dispose of it IAW the Unit Hazardous Waste Management Plan.

HM/HW locations:

- ___ Make sure the locations of your HM/HW are well chosen. Stay away from waterways, drainage, sensitive areas, living areas, bunkers, ammunition storage, fence lines and/or dining facilities. Place them near the areas where hazardous materials are used.
- ___ 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 HM/HW areas.
- ___ Spill Kits should also be available on vehicles transporting hazardous material/waste.

SPILL RESPONSE RECORD

PHASE I - IMMEDIATE ACTIONS FOR EVALUTING AND REPORTING SPILLS:

IMMEDIATELY REPORT ALL SPILLS TO YOUR SUPERVISOR AND CALL 911

****BE PREPARED TO PROVIDE THE FOLLOWING INFORMATION TO 911 OPERATOR:
During Duty Hours also Call Mr. Felix Seda, EPMB Spill Manager at 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 or 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 EPMB Spill Program Manager or FAX to 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: _____

