

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: 13 July 2012 (Log #01-05-12)
Range: Griswold Range
Title: Buddy/Fire Team, Zero/AMT
Problem No:

THRU: 198th Infantry Brigase
5241 23rd Infantry Regiment Street
Fort benning, Ga. 31905

FROM: 1-50th Infantry Battalion
9747 2nd Armor Division Road
Fort Benning, Ga. 31905

SECTION I, TYPE OF TRAINING

a. Live Fire b. Non-live Fire CP/Controller Coordinates: FA 9556 7411/9556 7415

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

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

SECTION III, WEAPONS/AMMUNITION REQUESTED

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

SECTION IV, LIVE FIRE EXERCISES Attach the following:

SECTION V, NON-LIVE FIRE TRAINING

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

Training area(s) to be occupied:

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

Name/rank of requesting officer:
THOMAS M. NELSON, LTC, COMMANDING

Name/rank of Major Unit S3/Commander:
JONATHAN T NEUMANN, COL, COMMANDING

SECTION VI, FOR RANGE DIVISION USE

DATE: 20 August 2012

TO: 198th Infantry Brigase
5241 23rd Infantry Regiment Street
Fort benning, Ga. 31905

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

- a. Roadblocks to be closed: A: 8, 23A, 30, 33A, 34.
- b. Road(s) to be closed/road barrier locations:
- c. Remarks:
- d. This approval expires: 19 Aug 14

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

Brad S. Tol

Griswold Range 1-50th Buddy/Fire Team, Zero/AMT (Log #01-05-12) Weapons, Ammo Enclosure

Firing Positions	Weapons	Ammunition	Left Limit, Grid Azimuth	Right limit, Grid Azimuth
Zero/CQM/AMT: FP 1 to FP 20 9754 7418 to 9759 7417	M4/M16	5.56mm Blank/Ball/Tracer	25m: 0050 (Mils) 5m: 6300 (Mils)	25m: 0130 (Mils) 5m: 0280 (Mils)
Buddy/Fire Team Start Fire: 9749 7419 - 9753 7419 to Cease Fire: 9750 7429 - 9754 7428	M4/M16	5.56mm Blank/Ball/Tracer	350 (Deg's)	030 (Deg's)
Buddy/Fire Team Start Fire: 9749 7419 - 9753 7419 to Cease Fire: 9750 7429 - 9754 7428	Pryotechnics	Smoke Grenade M18: G940 (Green) G945 (Yellow), G950 (Red), G955 (Violet) Hand Grenade Sim: M116A1 (L601) Artillery Sim: M110 (L596)	N/A	N/A
NOTE: Various LASERs (M68, An-PEM-1, PAQ4, PEQ13, PEQ15, etc...) will be used during this Live Fire Exercise. LASER warning signs will be in place during LASER use.				



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
HEADQUARTERS, 1ST BATTALION, 50TH INFANTRY REGIMENT
198TH INFANTRY BRIGADE
FORT BENNING, GEORGIA 31905-5710

ATSH- TBT-D

26 JUL 2012

MEMORANDUM FOR CHIEF, RANGE OPERATIONS, DPTMS, Fort Benning, Georgia
31905

ATTN: MR. TESCH, FORT BENNING, GEORGIA, 31905

SUBJECT: Scenario for Griswold Range BTT, FTT (Day Only), Zero, AMT/CQM, BMS, Alt Firing Positions (Standing, Kneeling, and Squatting), Stationary Barricade Firing, Maneuver Barricade, Reflexive Fire

1. The purpose of this memorandum is to outline the scenario for the Buddy Team, Fire Team Live Fire Exercises (FTT period 4 and 5), Basic rifle Marksmanship and Advance Rifle Marksmanship to be conducted at Griswold Range. The information is provided in accordance with MCoE Regulation 350-19.

2. PURPOSE OF EXERCISE: The purpose of the exercise is to allow Soldiers to demonstrate the training concepts and scenarios for firing at Griswold range using live ammunition. The training will familiarize Soldiers on firing techniques relative to combat conditions in the contemporary operating environment, firing realistic training with different target arrays, move as member of a Buddy/Fire Team under live fire conditions, communicating with their team to maintain adequate suppressive fire on the objective (weapon status and IMT), perform correct Individual Movement Techniques to close with and engage the enemy, following the Team Leader while selecting proper cover and concealment in full combat equipment.

3. TRAINING TASKS: The tasks to be trained include the following:

1. Engage targets with an M-4
2. Zero (Day)
3. AMT/CQM (Day/Night)
4. BMS (Day)
5. ALT Firing Positions (Standing, Kneeling and Squatting (Day/Night)
6. Stationary Barricade Firing (Day/Night)
7. Maneuver Barricade Firing (Day/Night)
8. Non-Barricade Reflective Fire (Day/Night)
9. Move as member of a buddy team (Day)
10. Moves as member of a fire team (Day)
11. Individual movement techniques (Day)
12. Use visual signaling techniques while dismounted (Day)
13. Perform as a member of a patrol (Day)
14. Perform aid for casualty (Day/Night)

4. AMMUNITION: 5.56mm Ball/Tracer

5. PYROTECHNICS: Hand Smoke/ G930, G940, G945, G950, G955; Artillery Simulator, Grenade Simulator

Zero: Fire from existing fire lines (9754 7418 - 9759 7417) at the 25 meter targets with M4 carbine Backup Iron Sight (BUIS) and M68 CCO. Four foot target frames or popsicle sticks will be used throughout this scenario. Firing orders will move to their firing points at the low ready keeping their weapon generally pointed down range. Soldiers will receive their ammunition from the Ammunition Supply Point (ASP) located behind the firing line. Soldiers will place their weapon on the sandbag. Soldiers waiting fire will place their weapon to the rear of the sandbag either on the right or left side. Soldiers will not Lock and Load their weapons until told to do so by the Firing Line NCOIC. Soldiers will move down range to the 25 meter targets under the safety supervision. Weapons will be cleared and remain on the firing line prior to moving down range.

Fire Standing, Kneeling and Prone: Will be executed IAW FM 3-22-9 Chapter 7. Soldiers will fire from fixed firing points at existing 25 meter targets in their firing lane. Soldiers will determine the firing position that offers the best chance of killing the target engagement during this iteration

Fire over and around Barricade: Will be executed IAW FM 3-22-9 Chapter 7. This firing technique trains the Soldier on three firing positions used in an urban environment. Soldiers will fire from fixed firing points at existing 25 meter targets in their firing lane. Soldiers will determine the firing position behind a barricade wall that offers the best chance of hitting the target without exposing the Soldier to killing fire. Soldiers will conduct load, fire, reduce stoppage, magazine changes and target engagement during these iterations. Prior to the live fire, OIC/RSO will ensure all Soldiers will conduct a dry/blank fire.

Stress Fire: Soldiers will fire from positions at the ready line in the prone supported, unsupported and kneeling firing positions. Soldiers will carry an unspecified weight and road march a distance as determined by the commander ending at the range. Soldiers will immediately proceed to the Ammo Supply Point and be issued rounds. Soldiers will proceed to the firing line and fire the standard qualification scenario.

ARM: Soldiers will train in and fire under controlled conditions at all times. Soldiers will familiarize with Close Combat Optic (CCO), Infrared Laser Device PEQ-15, and NVG (ANPVS-14), to engage targets. During the day portion of the training, a lane official gives all firing commands. During the night portion, a firing point official gives firing commands with the OIC acting as overall safety. Soldiers will fire in the prone supported, prone unsupported and kneeling firing positions. The Soldiers will be instructed to load their weapons, and move to engage targets. At the conclusion of the exercise, Soldiers will lock and clear their weapons and exit the firing line.

Day Fire:

1. Confirm zero with the M68 (allot 10 rounds per SM)
2. Review firing stance/positions, high ready, low ready, and actions on fire commands.
3. Conduct a dry or blank fire using a 1 DS: 10 Soldiers ratio. This can identify any Soldier that needs additional training prior to getting to the live fire, and it allows the Soldier to have a better understanding of the situation. Assign a DS for a concurrent training site for Soldiers that will be identified as needing more training. Ensure that the Soldier can demonstrate the following prior to moving back to the firing line:
 - a) Low ready
 - b) High ready
 - c) Actions on fire commands

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SUBJECT: Scenario for Griswold Range Basic, Advance Marksmanship Training, BTT and FTT

- d) SPORTS and magazine changes
- e) Walk, stop, and then shoot

Once the dry fire has been conducted, have Soldier collect 5 magazines with 10 rounds (to reinforce SPORTS you can have a few induced malfunctions in the magazines) and move half the company to the firing line.

ARM reflexive fire table: (1 DS: 3 Soldiers) Start at a line 25M line, Soldier facing front, ready up (controlled pair) twice firing at 9MM targets (4 rounds). Once rounds are complete, Soldier ensures the weapon is set to safe and moves forward to a line 15M line. At 15M line, Soldier facing front, ready up (controlled pair) twice firing at 9MM targets (4 rounds). Once rounds are complete, Soldier ensures the weapon is set to safe and moves forward to a line 10M line. At 10M line, Soldier facing front, ready up (controlled pair) twice firing at 9MM targets (4 rounds). Once rounds are complete, Soldier ensures the weapon is set to safe stays at the 10M line. Once instructed to do so, Soldiers will walk and shoot to the 5M line, then stop and ready up until all rounds are complete (8 rounds). Target description incorporated as proficiency builds (i.e. on the E-type silhouette targets you could place colored shapes and only have them fire at blue squares from the 25 M line and orange circles from the 15 M Line). Magazine changes/malfunctions incorporated throughout.

Night fire:

1. Zero IR Laser (40 total rounds per Soldier)
2. During the transition from day fire to night fire the Soldiers are taught how to bore light their lasers.
3. After all the lasers are bore lighted, begin set up for the night fire: magazines preloaded and NVGs tested (make sure you have batteries).
4. Teach the Soldiers to co-witness their M68 zero to the PEQ 4 (field zero).
 - a) Use 20 rounds to confirm zero with the IR Laser with the first iteration of firers and other soldiers use weapons that have already been zeroed.

CQM: Slow-aimed fire, controlled pairs, and rapid-aimed fire:

Firing from a stationary position 5, 10, 15 and 25m firing lines Soldiers will stay generally online with the Soldier to their left and right when moving forward; weapon pointed to the ground and on safe until audible signal is initiated to engage their target. During the movement portions of CQM training a ratio of one safety NCO to six Soldiers will be maintained when moving in-depth or in-width of the range. Soldiers will always center on the target they are engaging to stay within range fan limits and keeping the weapon pointed to the ground and on safe. On command of the line NCOIC the Soldiers will move forward at the low ready. Soldiers will engage their designated target upon an audible signal, verbal command, whistle or air horn. Again, the Range OIC / RSO are responsible to designate a line safety that will clear weapons after each phase of firing is complete, ensure safe employment of the weapon system, and range limits are observed. The techniques used in marksmanship training are primarily derived from FM 3-23-35, FM 3-06-11, and FM 3-22-9

BTT Buddy Team/ FTT Fire Team Live Fire:

GENERAL CONCEPT OF OPERATION: The buddy team/fire team encounters an OP/ lookout vicinity target 1 and vicinity target 2. The team leader is prompted by cadre to instruct the team to fight thru the contact. The team will move in a wedge formation. All buddy/fire teams will conduct a dry run then blank run on the objective prior to executing the live fire iteration. OIC and RSO ensure all Soldiers understand the range limits, sectors of fire, and direct fire control measures prior to execution. Battalion leadership

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will certify company leadership on any range requiring movement with a loaded weapon per 198th Infantry Brigade policy, and all company leadership will certify their cadre prior to the day of execution. The OIC will conduct a terrain walk with all cadre with the company commander present. This walk will confirm all limits of the range. All cadre will have a lensatic compass during this walk (Note: Directions of fire listed on FB Form 350-19-1-E-R are grid azimuth. Add 4 degrees to grid azimuth to read magnetic azimuth).

EXECUTION:

- a) The buddy/fire team files through the ASP (FA 9753 7405) to receive ammunition.
- b) The buddy/fire Team then moves to the assembly area (FA 9753 7412) to await their turn on the lane. Once the range cadre is ready for the fire team to execute the lane, the team will move to the start point (See Sketch). On command of the range cadre, the team will lock and load their weapons. The team leaves from the line of departure in a fire team wedge formation, with a direction of 5-10 degrees. (Pneumatic gun will be emplaced and providing sound effects for enemy fires).
- c) During the exercise PYROTECHNICS will be in use and thrown at least 30 meters from the closes friendly elements to the east 30degrees to prevent injury. This will also prevent the stoppage of the event in case the pyrotechnic failure to explode. In case of pyrotechnic failure to function, Range Control will be notified to coordinate EOD removal. OIC/RSO will deny access to the area where the pyrotechnic device is located. Contact will be made immediately after the conclusion of that iteration.
- d) Engagement 1 (OP1): The fire team makes contact with the enemy observation post (1). (See sketch). The fire team engages and assaults through the enemy OP utilizing individual and buddy team movement techniques. The fire team's sector of fire throughout this engagement is 350 degrees left to 030 degrees right. After the fire team assaults past the OP, the team establishes a limit of advance, conducts consolidation and reorganization, and reports its status to the drill sergeant (lane walking cadre). It then continues to travel north (5-10 degrees) remaining in a fire team wedge formation.
- e) Engagement 2 (OP2): While continuing to move north, the fire team makes contact with the enemy observation post (2). (See sketch). The fire team engages and assaults through the enemy OP utilizing individual and buddy team movement techniques. The fire team's sector of fire throughout this engagement is 350 degrees left to 030 degrees right. After the fire team assaults past the OP, the team establishes a limit of advance, conducts consolidation and reorganization, and reports its status to the drill sergeant (lane walking cadre)
- f) Once the exercise is completed, team members will clear their weapons, dry fire them then place their weapon on SAFE while keeping the weapon oriented down range. At this point there will be no further enemy contact or the necessity to continue the live fire beyond this point in the scenario. The lane walker/Drill sergeant will then clear each Soldier and his weapon. Once all weapons are cleared, the team will move back to the CP area to conduct an AAR. Any unused ammunition will be returned to the ASP.

SAFETY:

- 1) The "Crawl-Walk-Run" method of training will be standard for all LFX. A detailed leader's TEWT will be conducted and will outline all range fans, restrictions, and safety considerations. Fire Team rehearsals, Drill Sergeant demonstrations, dry runs, and blank runs will be conducted prior to any element getting the clearance to conduct a live fire iteration. All iterations (dry, blank and live) will have dedicated observer/controller teams.
- 2) Primary means of signaling will be FM communication. Alternate signaling will be by walkie talkie. Contingency signaling will colored smoke or VS-17 panel.

- 3) Company leadership will be with each fire team to confirm receipt of signals by tactical radios.
- 4) Emergency cease fire signal will be RED SMOKE/Air Horn held by the lane walker.
- 5) Soldiers will not lock/load weapons until on the firing line/position and the command to do so is given.
- 6) During CQM/AMT all Soldiers movement will be on line with each other under supervision.
- 7) Weapons will be visually inspected and rodded upon arrival on the range and after the exercise is finished before exiting. This will be conducted by qualified personnel not in a training status.
- 8) All weapons will be confirmed cleared prior to anyone moving forward to check, score, set up or remove targets.
- 9) Day live fire will be successfully conducted prior to conducting night live fire.
- 10) Range Safety Officer will cover the following in his safety brief to all Soldiers:
 - a. All Soldiers are Safety Officers.
 - b. Anyone observing an unsafe act will immediately call a cease fire.
 - c. All weapons will be discharged downrange and within the designated limits.
 - d. All weapons will remain on SAFE unless actively engaging a target.
 - e. All Soldiers must practice muzzle awareness and aim their weapon only at a target they intend to shoot.
- 11) If the fire team does not safely complete the dry or blank fire iteration they will be retrained on the task and will fire the blank iteration again prior to executing the live fire iteration.
- 12) All Soldiers will conduct a five-point safety check prior to moving from one position.
 - a. The Five Point Safety Check consists of the following:
 - Place the weapon on SAFE
 - Close dust cover/ ejection port cover
 - Identify next covered and concealed position
 - Look left
 - Look right
- 13) Soldiers will lock and load upon direction of the Drill Sergeant at the Line of Departure (LD).
- 14) Weapons will be cleared at the Limit of Advance (LOA). As the team moves back to the AAR site, weapons will be on SAFE and carried in the 'shotgun' position.
- 15) Soldiers will not engage target position boxes after they have fallen.
- 16) Soldiers will avoid all identified dud areas and report any UXO to Company Leadership if found.
- 17) The ammunition NCO will sign for all blank and live ammunition and control the storage, issue and collection of all unused ammunition.
- 18) The blank and live ammunition will be physically separated within the ASP.
- 19) The ASP will issue only enough ammunition for one iteration of the blank/live fire.
- 20) Each Soldier will return all unused ammunition to the ASP at the completion of their iteration on the range.
- 21) A weapon/ammunition check will be made before training to ensure no one has unauthorized ammunition in their possession.
- 22) Company leadership will ensure all weapons systems fire within range limits as specified in the FB 350-19-1-E-R.
- 23) All company leadership will conduct a terrain walk with the OIC prior to execution of the range to verify understanding of the range limits.
- 24) The scenario will be the same for dry, blank and live fire for all fire teams.
- 25) All Soldiers must practice muzzle awareness and aim their weapon at a target they intend to shoot.
- 26) Weapons will be on safe during all movements. Weapons will only be placed on fire when engaging a target within the range fan.

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SUBJECT: Scenario for Griswold Range Basic, Advance Marksmanship Training, BTT and FTT

LASER's: Class III A lasers are not eye safe on dual low mode within 25 meters. PEM – 1A is not a tactical laser and must be used within 25 meters. Laser Warning Signs will be in place prior to opening the range. **Range safety briefing will include hazards using Lasers and NVD's.**

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.

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

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

Medical: Primary means of coverage will be an on-site FLA with 2 medics. A medic with aid bag will walk with each fire team during live fire iterations. 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. First Sergeant will go through a daily MEDEVAC rehearsal with the medics.

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

NOTE: The Zero/CQM/AMT and Buddy/Fire Team events will not run simultaneously.

9. The POC for this memorandum is Mr. Michael McCardell at 706-544-0103



THOMAS M. NELSON
LTC, IN
Commanding

**Griswold Range 1-50th IN
Buddy/Fire Team, Zero/AMT**

OP/Engagement 2



OP/Engagement 1



SP/LD



Zero/CQM/AMT

Zero ASP

AA

ASP



Griswold Range 198th, 1/50th IN Buddy /Fire Team, Zero/AMT (Log #01-5-12) Roadblock List 12 July 2012

BLOCK	GRID	LOCATION	TYPE
A-1	FA 911 792	Across firebreak 200m down Fiske Range at right end of KD berm. Permanently closed.	Cable
A-2	FA 910 783	Off Sightseeing Rd on unnamed trail opposite of entrance to LRC.	Gate
A-4	FA 925 766	Off Sunshine Rd 1,200 m W. of entrance to Grandstaff range.	Gate
A-5	FA 936 762	Across entrance road to Grandstaff Range. 10m N. of Sunshine Rd.	Gate
A-6	FA 939 763	Off Sunshine Rd 100m W. of Oswichee Creek. Permanently closed.	Cable/ Berm
A-8	FA 968 740	Across unnamed trail 30m N. of Sunshine Rd and 800m N.W. of entrance to Griswold Range.	Gate
A-10	GA 018 730	Across entrance road to Flint Range. 50m N. of Sunshine Rd.	Gate
A-11	GA 019 731	Across Lumpkin Trail 30m N. of its intersection with Sunshine Rd.	Gate
A-11A	GA 032 729	Rd guard pos # 2 for Garnsey Rng Obj 'E' (intersection Jamestown/Sunshine Rd's	Rd Grd # 2
A-12	GA 033 742	Across Garnsey Rd 50m W. of its intersection with Jamestown Rd.	Gate
A-12A	GA 029 744	Across Garnsey Rd 400m W. of A-12 Roadblock.	Gate
A-12B	GA 028 741	Across trail 150m SW of A-12A Roadblock. 50m W. of Range Bldg.	Gate
A-12C	GA 036 746	Road guard position # 3 for Garnsey Rng Objective 'E' (Jamestown at Lightning Rd)	Road Guard # 3
A-13	FA 936 762	Across Sunshine Rd 10m E. of the entrance to Grandstaff Range. (Road guard location)	Gate
A-14	FA 974 733	Across Sunshine Rd 10m W. of the entrance to Griswold Range. (Road guard location)	Gate
A-15	GA 021 799	Across entrance road to Buchanan Range.	Gate
A-15A	GA 021 798	Gate Across Good Luck Rd	Gate
A-15B	GA 022 796	Road guard position # 1 for Garnsey Rng Objective 'E' (Jamestown road SW corner of Engineer building)	Road Guard # 1
A-18	FA 993 828	Across Buckeye Rd 225m S. of its intersection with 1st Div Rd. and 50m E. of entrance to Duke Range	Gate
A-19	FA 973 825	Across entrance road to Patton Range 400m S. of its intersection with 1st Div Rd.	Gate
A-20	FA 974 827	Across entrance road to Dianda Range. 300m S. its intersection with 1st Div Rd.	Gate
A-22	GA 015 817	Across unnamed trail 50m N. of Brinson Range and 10m off Jamestown Rd.	Gate
A23	FA 983 756	Across Lumpkin Trail 200m E. of Griswold Range	Gate
A-23A	GA 005 748	On Lumpkin trail 50m NW of Objective 'E' on Garnsey Range.	Gate
A-23B	GA 005 747	Adjacent to A-23A gate on trail near intersection of Lumpkin trail	Install Gate
A-24	GA 015 811	10m inside entrance gate of Brinson Rng south of entrance road.	Gate
A-25	GA 016 789	Across fire break 10m W. of its intersection with Good Luck Rd.	Gate
A-26	GA 013 798	On L/S of Buchanan Range 50 meters W. of chow area across entrance to fire break.	Cable
A-27	GA 018 805	Across unnamed trl 175m N of intersection of Hourglass and Jamestown roads	Gate

BLOCK	GRID	LOCATION	TYPE
A-28	GA 012 774	20 meters off Yankee road on south side of Galloway range.	Gate
A-28A	GA 011 776	30 meters south of Range Tower	Gate
A-30	GA 026 758	Across fire break leading to Garnsey Range. 140m SW of Brann Flat Range.	Gate
A-30A	GA 027 758	Across trail leading to Garnsey Range 50m E. of A-30 Roadblock	Gate
A-31	GA 020 745	Across fire break leading to Brann	Cable
A-32	FA 989 724	Across entrance road to Kunzig Range.	Gate
A-33	FA 974 734	Across entrance to Griswold Range.	Gate
A-33A	FA 979 739	150 meters west of Target Systems bldg on trail leading to move to contact site	Gate
A-33B	FA 982 739	20m N of Target Sys bldg on trail running on west side of bldg.	Install Gate
A-34	FA 947 760	Across entrance to Minter Hill 700m E. of Oswichee Creek.	Gate
A-38	FA 952 816	Across fire break 300m down range of firing line on Red Cloud Range on L. side of range.	Cable
A-39	FA 956 822	Across unnamed trail 100m S. of bldgs on Buckner Range on L. side of range	Cable
A-40	FA 967 823	Across fire break 50m down range on the left side of Pierce Range.	Gate
A-41	FA 972 820	Across fire break located on the right side of the firing line on Patton Range.	Cable
A-42	FA 978 820	Across fire break located on the left side of the firing line on Patton Range.	Cable
A-43	FA 983 823	Across fire break located on the right side of	Cable
A-44	FA 986 823	Across fire break 100m E. of the 25m flat	Gate
A-45	FA 990 827	Across fire break located on the right side of the firing line on Duke Range.	Gate
A-45A	FA 991 829	Across Booker Breach site entrance road 200m past Duke Rng entrance gate	Gate
A-46	FA 984 832	Across unnamed trail 100m W. of the intersection of 1st Div Rd and Ivy Rd.	Gate
A-47	FA 990 833	Across unnamed trail 500m W. of the intersection with 1st Div & Buckeye Rd's	Gate
A-48	FA 995 827	Across fire break located on the right side of the firing line on Porter Range.	Cable
A-49	FA 998 827	Across fire break located on the left side of the firing line on Porter Range.	Cable
A-50	GA 000 830	Across unnamed trail 200m W. of entrance to Maertens Range.	Gate
A-51	GA 031 791	Barrier on Furman Rd	Barrier 1
A-52	GA 034 776	Barrier on Yankee Rd	Barrier 2
A-53	GA 035 776	Gate to Cole Range	Barrier 3
A-54	GA 046 749	Barrier off Lightning Rd on unnamed trail	Barrier 5
A-55	GA 057 759	Barrier off Lightning Rd on unnamed trail	Barrier 4



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

ATZB-SO

13 August 2012

MEMORANDUM FOR Commander, 1/50th IN Bn., Attn: Mr. Michael McCardell, Fort Benning, GA 31905

SUBJECT: 1/50th IN Bn Scenario for Griswold Range BTTFTT, Zero, AMT/CQM, BMS, Alt Firing Positions, Stationary, Barricade Firing, Maneuiver Barricde and Reflexive Fire Concept and Safety Review

1. References.

- a. 1/50th IN Bn Scenario for Griswold Range BTTFTT, Zero, AMT/CQM, BMS, Alt Firing Positions, Stationary, Barricade Firing, Maneuiver Barricde and Reflexive Fire, 26 July 2012.
- b. Army Regulation 385-10, The Army Safety Program, 24 August 2007.
- 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, RAR 01 February 2010.
- g. Department of the Army Pamphlet 385-63, Range Safety, 30 January 2012
- h. Field Manual 5-19, Composite Risk Management, August 2006
- i. MCoE Regulation 350-19, Range and Terrain Regulation, 23 July 2010

2. Concur w/comment.

a. Concept Paper, pg 4, Execution. The placement of explosive charges (L594, L601, etc) within 30M of Soldiers is prohibited. Observe SDZ from unprotected personnel at all times. SDZ distances less than 30 meters are only acceptable for protected personnel. The projectile ground-burst simulator must not be used near personnel due to potential hazard from fragmentation (AIN) 149-11).

b. CRMW (Basic Rifle Marksmanship (Periods 4-8)), Block 6, pg 1. Recommend that

ATZB-SO

SUBJECT: 1/50th IN Bn Scenario for Griswold Range BTTFTT, Zero, AMT/CQM, BMS, Alt Firing Positions, Stationary, Barricade Firing, Maneuver Barricade and Reflexive Fire Concept and Safety Review

“Accidental Discharge” be replaced with “Negligent Discharge”.

c. CRMW (Basic Rifle Marksmanship (Periods 4-8)), Blocks 7 & 9, pg 1. “Accidental Discharge”, recommend that the initial and residual risks be elevated to HIGH and MODERATE which more accurately reflect the severity and probability matrix for Accidental/Negligent Discharge scenario.

d. CRMW (Basic Rifle Marksmanship (Periods 4-8)), Block 11, pg 1. “Accidental Discharge”, recommend that you add “individual” to the “How to Supervise” block.

e. CRMW (Basic Rifle Marksmanship (Periods 4-8)), Block 8, pg 1. “Ammunition Point”, recommend that you reword the sentence to prohibit the concurrent storage of blank and live ammunition together. These ammunitions must be physical separate and identifiable.

f. CRMW (Basic Rifle Marksmanship (Periods 4-8)), Blocks 7 & 9, pg 2. “Fratricide”, recommend that the initial and residual risks be elevated to HIGH and MODERATE which more accurately reflect the severity and probability for such an incident.

g. CRMW (Basic Rifle Marksmanship (Periods 4-8)), Blocks 8, pg 2. “Weather and changing conditions during training”, recommend that you add a morning weather check with the U.S. Air Force Weather forecasters/briefers at Lawson Army Airfield.

h. CRMW (Advanced Rifle Marksmanship (ARM 2, 3, and 5)), Block 6, pg 1. Recommend that “Accidental Discharge” be replaced with “Negligent Discharge”.

i. CRMW (Advanced Rifle Marksmanship (ARM 2, 3, and 5)), Blocks 7 & 9, pg 1. “Accidental Discharge”, recommend that the initial and residual risks be elevated to HIGH and MODERATE which more accurately reflect the severity and probability matrix for Accidental/Negligent Discharge.

j. CRMW (Advanced Rifle Marksmanship (ARM 2, 3, and 5)), Block 11, pg 1. “Accidental Discharge”, recommend that you add “individual” to the “How to Supervise” block.

k. CRMW (Advanced Rifle Marksmanship (ARM 2, 3, and 5)), Block 8, pg 1. “Mixed Ammo and Fires”, recommend that you reword the sentence to prohibit the concurrent storage of blank and live ammunition together. These ammunitions must be physical separate and identifiable.

ATZB-SO

SUBJECT: 1/50th IN Bn Scenario for Griswold Range BTTFTT, Zero, AMT/CQM, BMS, Alt Firing Positions, Stationary, Barricade Firing, Maneuiver Barricde and Reflexive Fire Concept and Safety Review

l. CRMW (Advanced Rifle Marksmanship (ARM 2, 3, and 5)), Blocks 7 & 9, pg 2. “Fratricide”, recommend that the initial and residual risks be elevated to HIGH and MODERATE which more accurately reflect the severity and probility for such an incident.

m. CRMW (Advanced Rifle Marksmanship (ARM 2, 3, and 5)), Block 11, pg 2. “Eye/Hearing Loss or Injury”, recommend that you add “Buddy Team” and “Individual”.

n. CRMW (Advanced Rifle Marksmanship (ARM 2, 3, and 5)), Blocks 8, pg 2. “Weather and changing conditions during training”, recommend that you add a morning weather check with the U.S. Air Force Weather forecasters/briefers at Lawson Army Airfield.

o. CRMW (Buddy Team Training (BTT 2-3)), Blocks 6, pg 1. Recommend that “Accidental Discharge” be replaced with “Negligent Discharge”.

p. CRMW (Buddy Team Training (BTT 2-3)), Block 11, pg 1. “Accidental Discharge”, recommend that you add “individual” to the “How to Supervise” block.

q. CRMW (Buddy Team Training (BTT 2-3)), Blocks 6, pg 2. Recommend that “Accidental Discharge” be replaced with “Negligent Discharge”.

r. CRMW (Buddy Team Training (BTT 2-3)), Blocks 7 & 9, pg 2. “Fratricide”, recommend that the initial and residual risks be elevated to HIGH and MODERATE which more accurately reflect the severity and probility for such an incident.

s. CRMW (Buddy Team Training (BTT 2-3)), Block 11, pg 2. “Eye/Hearing Loss or Injury”, recommend that you add “Buddy Team” and “Individual”.

t. CRMW (Buddy Team Training (BTT 2-3)), Blocks 8, pg 2. “Weather and changing conditions during training”, recommend that you add a morning weather check with the U.S. Air Force Weather forecasters/briefers at Lawson Army Airfield.

u. CRMW (Fire Team Training (FTT 4-5)), Blocks 6, pg 1. Recommend that “Accidental Discharge” be replaced with “Negligent Discharge”.

v. CRMW (Fire Team Training (FTT 4-5)), Block 11, pg 1. “Accidental Discharge”, recommend that you add “individual” to the “How to Supervise” block.

ATZB-SO

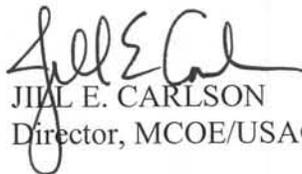
SUBJECT: 1/50th IN Bn Scenario for Griswold Range BTTFFT, Zero, AMT/CQM, BMS, Alt Firing Positions, Stationary, Barricade Firing, Maneuver Barricade and Reflexive Fire Concept and Safety Review

w. CRMW (Fire Team Training (FTT 4-5)), Block 8, pg 1. "Injuries from explosives and flying debris", recommend that you add specific individual PPE for the use and handling and mandatory standoff distance for the use of pyrothenics.

x. CRMW (Fire Team Training (FTT 4-5)), Block 11, pg 2. "Eye/Hearing Loss or Injury", recommend that you add "Buddy Team" and "Individual".

y. All CRMWs submitted did not address "Heat Injuries/Sickness".

3. 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

COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK Advanced Rifle Marksmanship (ARM 2,3,5)	2a. DTG BEGIN 26 JUL 2012	2b. DTG END 25 JUL 2013	3. DATE PREPARED (YYYYMMDD) 20120629
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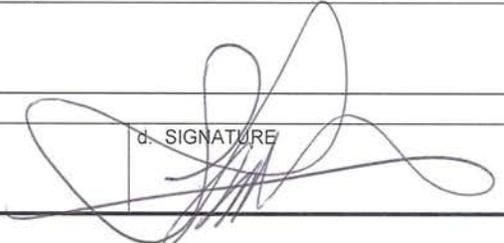
4. PREPARED BY		
a. LAST NAME McCardell	b. RANK GS-9	c. POSITION ADSO 706-544-7187

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?
Marksmanship Training	Negligent Discharge	H	- Soldiers and Cadre will treat weapons as if they are loaded at all times. - Safeties will supervise soldiers during firing - No running on Range when Weapon is loaded	M	- Safety Briefings - Supervision and oversight.	- Drill Sergeant - Range Safety Officer - Individual	
	Negligent Discharge	H	- Safeties will observe clearing barrel procedures. - DS will supervise and assist soldiers with malfunctions on the firing line	M	- Safety Briefings - Supervision and oversight.	- Range OIC - Range Safety Officer - Drill Sergeant - Individual	
	Negligent Discharge	H	- Any Soldier that has an accidental discharge will be removed from the firing line and retrained, recertified and reinserted into training at the Company Commanders discretion	M	- Safety Briefings - Supervision and oversight. - Unit SOP	- Drill Sergeant - Range Safety Officer - Company Commander	
Fire Weapon	Weapons Control Firing in Burst Mode	M	- Enforce disciplined fire control techniques Soldiers will be briefed not to fire on Burst	L	- Safety Briefings - Supervision and oversight.	- Range Officer in Charge - Drill Sergeant	
Ammunition Point	Improper Ammunition	M	- Range OIC will insure the proper ammunition is used and delivered to the range for the weapon system that is to be fired. - Ammo NCO will report any discrepancy	L	- Safety Briefings - Supervision and oversight.	- Range OIC - Ammunition NCO - Drill Sergeant	
Ammunition Point	Mixed ammo and Fires	M	- Blank and Live ammunition will stored separately by DODIC at the ammunition point. - Ammo Point will have Fire extinguisher on hand. No smoking within 50ft of AP	M	- Safety Briefings - Supervision and oversight.	- Range OIC - Ammunition NCO	

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 NELSON	b. RANK LTC	c. DUTY POSITION Battalion Commander	d. SIGNATURE 

ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Marksmanship Training	Fratricide	H	- Weapon is carried at the low ready when moving on and off range. - Soldier will ensure his weapon is on safe, finger is out of the trigger well.	M	- Safety Briefings - Supervision and oversight.	- Range OIC - Range Safety Officer - Drill Sergeant - Individual	
	Fratricide	H	- Ensure weapon is cleared before the soldier leaves the firing point. During BRM Periods Drill Sergeant will visually inspect the weapon, during ARM Battle Buddy visually inspect	M	- Safety Briefings - Supervision and oversight.	- Range OIC - Range Safety Officer - Drill Sergeant - Individual	
	Fratricide	H	WEAPONS WILL BE CLEARED BY THE SOLDIERS AT THE CLEARING BARREL AND VISUALLY CHECKED BY CADRE BEFORE MOVING OFF FIRING LINE	M	- Safety Briefings - Supervision and oversight. - Clearing Barrel Procedures	- Range OIC - Range Safety Officer - Drill Sergeant - Individual	
Eye/Hearing	Eye/Hearing Loss or Injury	M	- Soldiers will wear ballistic eyewear while on the range and firing. - Soldiers will wear hearing protection on the firing line.	L	- Safety Briefings - Supervision and oversight.	- Drill Sergeant - Range Safety Officer - Buddy Team - Individual	
Ammunition	Unauthorized removal of ammunition from range	M	- Cadre will conduct a through brass and ammo check prior to leaving the range - Ammunition NCO will maintain accountability of ammunition and expenditures.	L	- Safety Briefing - Unit SOP - Command Oversight	- All Cadre - Ammunition NCO	
Weather	Weather and Changing Conditions during Training	M	- Company Commander will adjust his daily risk management worksheet as conditions change ie weather (Storms, hot, cold), range malfunctions, cadre availability, etc.	L	- Command Oversight - Daily Risk Assessment - Weather updates by SDNCO	Company Commander	
Clear Weapon	Muzzle Obstructions	M	- Soldiers weapons will be checked by a cadre member before firing. - Weapons will be checked for obstructions any time a Soldier falls or drops his weapon.	L	- Safety Briefing - Unit SOP	- Drill Sergeant - Range Safety Officer	
	Lost Soldier	M	- When units discover a Soldier is unaccounted for they will immediately cease training, Notify Range Control and follow the procedures outlined in FT Benning Range reg. 210-4	L	- MCOE Reg 350-19 - Unit SOP	- All Cadre	
	Moving up and downrange to check targets	M	- Drill Sergeants and Soldiers will check weapons to insure they are clear and on safe prior to Soldier being allow to move up and downrange to check Targets	L	- Safety Briefing - Unit SOP	- Drill Sergeant - Range Safety Officer - Soldiers	
3 Firers per Lane	Injury from ejecting cartridge	M	-Soldiers will be seperated far enough apart to mitigate the likly hood of getting hit by cartridge - DS will insure Each Soldiers knows his left and right limit within his lane	L	- MCOE Reg 350-19 - Safety Briefing - Unit SOP	- 1 Drill Sergeant per lane - Range Safety Officer - Soldiers	

COMPOSITE RISK MANAGEMENT WORKSHEET

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

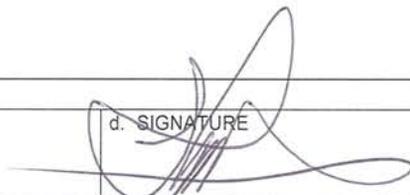
1. MSN/TASK Basic Rifle Marksmanship (Periods 4-8)	2a. DTG BEGIN 26 JUL 2012	2b. DTG END 25 JUL 2013	3. DATE PREPARED (YYYYMMDD) 20120609
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4. PREPARED BY		
a. LAST NAME McCardell	b. RANK GS-9	c. POSITION Training Tech 706-544-7187

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?
Marksmanship Training	Negligent Discharge	H	- Soldiers and Cadre will treat weapons as if they are loaded at all times. - Safeties will supervise soldiers during firing - No running on Range when Weapon is loaded	M	- Safety Briefings - Supervision and oversight.	- Drill Sergeant - Range Safety Officer - Individual	
	Negligent Discharge	H	- Safeties will observe clearing barrel procedures. - DS will supervise and assist soldiers with malfunctions on the firing line	M	- Safety Briefings - Supervision and oversight.	- Range OIC - Range Safety Officer - Drill Sergeant - Individual	
	Negligent Discharge	H	- Any Soldier that has an accidental discharge will be removed from the firing line and retrained, recertified and reinserted into training at the Company Commanders discretion	M	- Safety Briefings - Supervision and oversight. - Unit SOP	- Drill Sergeant - Range Safety Officer - Company Commander	
	Weapons Control Firing in Burst Mode	M	- Enforce disciplined fire control techniques Soldiers will be briefed not to fire on Burst	L	- Safety Briefings - Supervision and oversight.	- Range Officer in Charge - Drill Sergeant	
	Improper Ammunition	M	- Range OIC will insure the proper ammunition is used and delivered to the range for the weapon system that is to be fired. - Ammo NCO will report any discrepancy	L	- Safety Briefings - Supervision and oversight.	- Range OIC - Ammunition NCO - Drill Sergeant	
	Ammunition Point	M	- Blank and Live ammunition will not be stored separately by DODIC at the ammunition point. - Ammo Point will have Fire extinguisher on hand. No open flame within 50m of AP	M	- Safety Briefings - Supervision and oversight.	- Range OIC - Ammunition NCO	

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

13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check one)			
<input type="checkbox"/> LOW	<input checked="" type="checkbox"/> MODERATE	<input type="checkbox"/> HIGH	<input type="checkbox"/> EXTREMELY HIGH

14. RISK DECISION AUTHORITY			
a. LAST NAME NELSON	b. RANK LTC	c. DUTY POSITION Battalion Commander	d. SIGNATURE 

ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Marksanship Training	Fratricide	H	- Weapon is carried at the low ready when moving on and off range. - Soldier will ensure his weapon is on safe, finger is out of the trigger well.	M	- Safety Briefings - Supervision and oversight.	- Range OIC - Range Safety Officer - Drill Sergeant - Soldiers	
	Fratricide	H	- Ensure weapon is cleared before the soldier leaves the firing point. During BRM Periods Drill Sergeant will visually inspect the weapon, during ARM Battle Buddy visually inspect	M	- Safety Briefings - Supervision and oversight.	- Range OIC - Range Safety Officer - Drill Sergeant - Soldiers	
	Fratricide	H	WEAPONS WILL BE CLEARED BY THE SOLDIERS AT THE CLEARING BARREL AND VISUALLY CHECKED BY CADRE BEFORE MOVING OFF FIRING LINE	M	- Safety Briefings - Supervision and oversight. - Clearing Barrel Procedures	- Range OIC - Range Safety Officer - Drill Sergeant - Soldiers	
	Eye/Hearing Loss or Injury	M	- Soldiers will wear ballistic eyewear while on the range and firing. - Soldiers will wear hearing protection on the firing line.	L	- Safety Briefings - Supervision and oversight.	- Drill Sergeant - Range Safety Officer	
	Unauthorized removal of ammunition from range	M	- Cadre will conduct a through brass and ammo check prior to leaving the range - Ammunition NCO will maintain accountability of ammunition and expenditures.	L	- Safety Briefing - Unit SOP - Command Oversight	- All Cadre - Ammunition NCO	
	Weather and Changing Conitions during Training	M	- Company Commander will adjust his daily risk management worksheet as conditions change ie weather (Storms, hot, cold), range malfunctions, cadre availability,etc.	L	- Command Oversight . - Inspect CLS/Evac Equipment - Weather Updates SDNCO	Company Commander	
	Muzzle Obstructions	M	- Soldiers weapons will be checked by a cadre member before firing. - Weapons will be checked for obstructions any time a Soldier falls or drops his weapon.	L	- Safety Briefing - Unit SOP - Drill Sergeants	- Drill Sergeant - Range Safety Officer	
	Lost Soldier	M	- When units discover a Soldier is unaccounted for they will immediatly cease training, Notify Range Control and follow the procedures outlined in FT Benning Range reg. 210-4		- MCOE 350-19 - Unit SOP	- All Cadre	
	Moving up and down range to Check targets	M	- Drill Sergeants will safe weapons prior to Soldiers moving downrange to check targets. -	L	- Safety Briefing - Unit SOP - Drill Sergeants	- Drill Sergeant - Range Safety Officer	

COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK Fire Team Training (FTT 1-5)	2a. DTG BEGIN 26 JUL 2012	2b. DTG END 25 JUL 2013	3. DATE PREPARED (YYYYMMDD) 20120629
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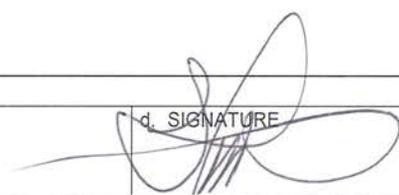
4. PREPARED BY		
a. LAST NAME McCardell	b. RANK GS-9	c. POSITION ADSO 706-544-7187

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?
Fire Team Training	Negligent Discharge	H	- Soldiers and Cadre will treat weapons as if they are loaded at all times. - Safeties will supervise soldiers during blank and Live Firing engagements	M	- Safety Briefings - Supervision and oversight.	- Drill Sergeant - Range Safety Officer - Individual	
Firing Weapons at close Range	Ricochet	H	- DS will brief soldiers not to engage targets closer than 5 meters with Blanks. - Closely supervise Soldiers engaging targets that are closer than 50m with live ammo.	M	- Safety Briefings - Supervision and oversight.	- Lane Safety - Range Safety Officer - Drill Sergeant	
Pyrotechnics	Injuries from explosions and flying debris	M	- Drill Sergeants will handle all pry devices and will throw simulators in safe direction away from soldiers. - PPE use is mandatory deploying pyrotechnics	L	- Safety Briefings - Supervision and oversight. - Unit SOP	- Drill Sergeant - Range Safety Officer - Company Commander	
Wildlife	Animal/Insect Bites	M	- Brief Soldiers to be alert of wildlife along the route especially snakes. Brief Soldiers to avoid contact with wildlife and to not step over snakes dead or alive.	L	- Safety Briefings - Supervision and oversight.	- Drill Sergeant	
Ammunition Point	Improper Ammunition	M	- Range OIC will insure the proper ammunition is used and delivered to the range for the weapon system that is to be fired. - Ammo NCO will report any discrepancy	L	- Safety Briefings - Supervision and oversight.	- Range OIC - Ammunition NCO - Drill Sergeant	
Ammunition Point	Mixing Ammo Fire at ammo point	M	- Blank and Live ammunition will not be stored separately by DODIC at the ammunition point. - Ammo Point will have Fire extinguisher on hand. No open flame within 50m of AP	L	- Safety Briefings - Supervision and oversight.	- Range OIC - Ammunition NCO	

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 NELSON	b. RANK LTC	c. DUTY POSITION Battalion Commander	d. SIGNATURE 

ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Fire Team Training	Fratricide	H	- Weapon is carried at the low ready while moving. - Soldier will ensure his weapon is on safe, finger is out of the trigger well.	M	- Safety Briefings - Supervision and oversight.	- Range OIC - Range Safety Officer - Drill Sergeant - Soldiers	
Fire Team Training	Negligent Discharge / Fratricide	H	Left handed firers will be placed on the right flank of the fire team to reduce the chance of masking another Soldier.	M	- Safety Briefings - Supervision and oversight - Rehearsal	- Drill Sergeant - Range Safety Officer	
Fire Team Training	Muzzle Obstructions	H	- Soldiers weapons will be checked by a cadre member before firing. - Weapons will be checked for obstructions any time a Soldier falls or drops his weapon.	M	- Safety Briefings - Supervision and oversight. - Rehearsal	- Drill Sergeant - Range Safety Officer	
Fire Team Training	Weapons Carried at the Low Ready	H	Soldiers will carry weapons at the Low/High ready. At time muzzles may be oriented out of range fan, Soldiers and Cadre will enforce muzzle awareness.	M	- Safety Briefing - Unit SOP	- Drill Sergeant - Range Safety Officer	
Fire Team Training	Weapons Carried at the Low Ready	M	-Soldier will clear his weapon at the Clearing barrel prior to moving to the range admin area. - Soldiers will clear his weapon prior to leaving the firing point.	L	- Safety Briefing - Unit SOP - Command Oversight		
Clear Weapons	Weapons Malfunction/Misfires	M	- If a weapon is not cleared by applying immediate or remedial actions, Cadre will clear the weapon at the firing point before taking it off the firing line.	L	- Safety Briefing - Unit SOP	- Drill Sergeant - Range Safety Officer	
Clear Weapons	Ammunition Malfunction/Misfires	M	- RSO will suspend all firing if a malfunction involves damage to a weapon or injury to personnel. - RSO will notify QASAS at 544-7490/7489	L	- Safety Briefing - Unit SOP - Supervised Rehearsals	- Drill Sergeant - Range Safety Officer	
Eye and Hearing	Eye/Hearing Injuries	M	- Soldiers will wear ballistic eyewear while firing. - Soldiers will wear hearing protection while conducting all scenarios.	L	- Safety Briefing - Unit SOP - Command Oversight	- Drill Sergeant - Range Safety Officer - Buddy Team - Individual	
Removal of ammunition from range	Unauthorized removal of ammunition from range	M	- Cadre will conduct a through brass and ammo check prior to leaving the range - Ammunition NCO will maintain accountability of ammunition and expenditures.	L	- Safety Briefing - Unit SOP - Command Oversight	- All Cadre - Ammunition NCO	
Weather	Weather and Changing Conditions during Training	M	- Company Commander will adjust his daily risk management worksheet as conditions change ie weather (Storms, hot, cold), range malfunctions, cadre availability,etc.	L	- Command Oversight - Conduct Daily Risk assessment - Updates by SDNCO	Company Commander	

COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK Buddy Team Training (BTT 2-3)	2a. DTG BEGIN 26 JUL 2012	2b. DTG END 25 JUL 2013	3. DATE PREPARED (YYYYMMDD) 20120629
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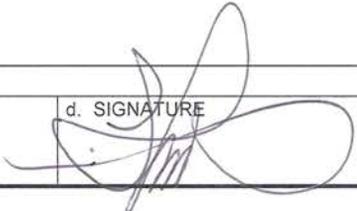
4. PREPARED BY			
a. LAST NAME McCardell	b. RANK GS-9	c. POSITION ADSO 706-544-7187	

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?
Buddy Team Training	Negligent Discharge	H	- Soldiers and Cadre will treat weapons as if they are loaded at all times. - Safeties will supervise soldiers during blank and Live Firing engagements	M	- Safety Briefings - Supervision and oversight.	- Drill Sergeant - Range Safety Officer - Individual	
Firing Weapons at close Range	Ricochet	H	- DS will brief soldiers not to engage targets closer than 5 meters with Blanks. - Closely supervise Soldiers engaging targets that are closer than 50m with live ammo.	M	- Safety Briefings - Supervision and oversight.	- Lane Safety - Range Safety Officer - Drill Sergeant	
Pyrotechnics	Injuries from explosions and flying debris	M	- Drill Sergeants will handle all pyro devices and will throw simulators in safe direction away from soldiers.	L	- Safety Briefings - Supervision and oversight. - Unit SOP	- Drill Sergeant - Range Safety Officer - Company Commander	
Wildlife	Animal/Insect Bites	M	- Brief Soldiers to be alert of wildlife along the route especially snakes. Brief Soldiers to avoid contact with wildlife and to not step over snakes dead or alive.	L	- Safety Briefings - Supervision and oversight.	- Drill Sergeant	
Ammunition Point	Improper Ammunition	M	- Range OIC will insure the proper ammunition is used and delivered to the range for the weapon system that is to be fired. - Ammo NCO will report any discrepancy	L	- Safety Briefings - Supervision and oversight.	- Range OIC - Ammunition NCO - Drill Sergeant	
Ammunition Point	Mixing Ammo Fire at ammo point	M	- Blank and Live ammunition will not be stored separately by DODIC at the ammunition point. - Ammo Point will have Fire extinguisher on hand. No open flame within 50m of AP	M	- Safety Briefings - Supervision and oversight.	- Range OIC - Ammunition NCO	

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 NELSON	b. RANK LTC	c. DUTY POSITION Battalion Commander	d. SIGNATURE 

ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Buddy Team Training	Fratricide	H	- Weapon is carried at the low ready while moving. - Soldier will ensure his weapon is on safe, finger is out of the trigger well.	M	- Safety Briefings - Supervision and oversight.	- Range OIC - Range Safety Officer - Drill Sergeant - Soldiers	
Buddy Team Training	Negligent Discharge / Fratricide	H	- Cadre will strictly enforce muzzle awareness - Before Soldier leaves the Firing Point he will be instructed to clear his weapon.	M	- Safety Briefings - Supervision and oversight - Rehearsal	- Drill Sergeant - Range Safety Officer	
Buddy Team Training	Muzzle Obstructions	H	- Soldiers weapons will be checked by a cadre member before firing. - Weapons will be checked for obstructions any time a Soldier falls or drops his weapon.	M	- Safety Briefings - Supervision and oversight. - Rehearsal	- Drill Sergeant - Range Safety Officer	
Weapons Carried at the Low Ready	Fratricide/Round out of Impact area	H	Soldiers will carry weapons at the Low/High ready. At time muzzles may be oriented out of range fan, Soldiers and Cadre will enforce muzzle awareness.	M	- Safety Briefing - Unit SOP	- Drill Sergeant - Range Safety Officer	
Weapons Carried at the Low Ready	Negligent Discharge	M	-Soldier will clear his weapon at the Clearing barrel prior to moving to the range admin area. - Soldiers will clear his weapon prior to leaving the firing point.	L	- Safety Briefing - Unit SOP - Command Oversight		
Clear Weapons	Weapons Malfunction/Misfires	M	- If a weapon is not cleared by applying immediate or remedial actions, Cadre will clear the weapon at the firing point before taking it off the firing line.	L	- Safety Briefing - Unit SOP	- Drill Sergeant - Range Safety Officer	
Clear Weapons	Ammunition Malfunction/Misfires	M	- RSO will suspend all firing if a malfunction involves damage to a weapon or injury to personnel. - RSO will notify QASAS at 544-7490/7489	L	- Safety Briefing - Unit SOP - Supervised Rehearsals	- Drill Sergeant - Range Safety Officer	
Eye and Hearing	Eye/Hearing Injuries	M	- Soldiers will wear ballistic eyewear while firing. - Soldiers will wear hearing protection while conducting all scenarios.	L	- Safety Briefing - Unit SOP - Command Oversight	- Drill Sergeant - Range Safety Officer - Buddy Team - Individual	
Removal of ammunition from range	Unauthorized removal of ammunition from range	M	- Cadre will conduct a through brass and ammo check prior to leaving the range - Ammunition NCO will maintain accountability of ammunition and expenditures.	L	- Safety Briefing - Unit SOP - Command Oversight	- All Cadre - Ammunition NCO	
Weather	Weather and Changing Conditions during Training	M	- Company Commander will adjust his daily risk management worksheet as conditions change ie weather (Storms, hot, cold), range malfunctions, cadre availability,etc.	L	- Command Oversight - Conduct Daily Risk assessment - Updates by SDCNO	Company Commander	

COMPOSITE RISK MANAGEMENT WORKSHEET

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

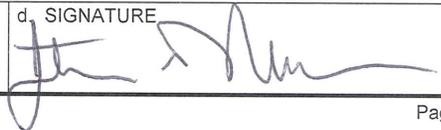
1. MSN/TASK Fire Team Training (FTT 4-5)	2a. DTG BEGIN 17 OCT 2013	2b. DTG END 16 OCT 2014	3. DATE PREPARED (YYYYMMDD) 20130930
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4. PREPARED BY		
a. LAST NAME Burruss	b. RANK GS-11	c. POSITION ADSO 706-544-0074

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?
Fire Team Training	Accidental Discharge	H	- Soldiers and Cadre will treat weapons as if they are loaded at all times. - Safeties will supervise soldiers during blank and Live Firing engagements	M	- Safety Briefings - Supervision and oversight.	- Drill Sergeant - Range Safety Officer	
Firing Weapons at close Range	Ricochet	H	- DS will brief soldiers not to engage targets closer than 5 meters with Blanks. - Closely supervise Soldiers engaging targets that are closer than 50m with live ammo.	M	- Safety Briefings - Supervision and oversight.	- Lane Safety - Range Safety Officer - Drill Sergeant	
Pyrotechnics	Injuries from explosions and flying debris	M	- Drill Sergeants will handle all pry devices and will throw simulators in safe direction away from soldiers.	L	- Safety Briefings - Supervision and oversight. - Unit SOP	- Drill Sergeant - Range Safety Officer - Company Commander	
Wildlife	Animal/Insect Bites	M	- Brief Soldiers to be alert of wildlife along the route especially snakes. Brief Soldiers to avoid contact with wildlife and to not step over snakes dead or alive.	L	- Safety Briefings - Supervision and oversight.	- Drill Sergeant	
Ammunition Point	Improper Ammunition	M	- Range OIC will insure the proper ammunition is used and delivered to the range for the weapon system that is to be fired. - Ammo NCO will report any discrepancy	L	- Safety Briefings - Supervision and oversight.	- Range OIC - Ammunition NCO - Drill Sergeant	
Ammunition Point	Mixing Ammo Fire at ammo point	M	- Blank and Live ammunition will not be stored together at the ammunition point. - Ammo Point will have Fire extinguisher on hand. No open flame within 50m of AP	L	- Safety Briefings - Supervision and oversight.	- Range OIC - Ammunition NCO	

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

13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check one)
<input type="checkbox"/> LOW <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> HIGH <input type="checkbox"/> EXTREMELY HIGH

14. RISK DECISION AUTHORITY			
a. LAST NAME NEUMANN	b. RANK COL	c. DUTY POSITION Brigade Commander	d. SIGNATURE 

ITEMS 5 THROUGH 12 CONTINUED:							
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC-TIVE?
Fire Team Training	Fratricide	H	- Drill Sergeant will move with each Fire Team - Soldier will ensure his weapon is on safe, finger is out of the trigger well while bounding in between positions.	M	- Safety Briefings - Supervision and oversight.	- Range OIC - Range Safety Officer - Drill Sergeant - Soldiers	
Fire Team Training	Negligent Discharge / Fratricide	H	Left handed firers will be placed on the right flank of the fire team to reduce the chance of masking another Soldier.	M	- Safety Briefings - Supervision and oversight - Rehearsal	- Drill Sergeant - Range Safety Officer	
Fire Team Training	Muzzle Obstructions	H	- Soldiers weapons will be checked by a cadre member before firing. - Weapons will be checked for obstructions any time a Soldier falls or drops his weapon.	M	- Safety Briefings - Supervision and oversight. - Rehearsal	- Drill Sergeant - Range Safety Officer	
Fire Team Training	Weapons Carried at the Low Ready	H	Soldiers will carry weapons at the Low/High ready. At time muzzles may be oriented out of range fan, Soldiers and Cadre will enforce muzzle awareness.	M	- Safety Briefing - Unit SOP	- Drill Sergeant - Range Safety Officer	
Fire Team Training	Weapons Carried at the Low Ready	M	-Soldier will clear his weapon at the Clearing barrel prior to moving to the range admin area. - Soldiers will clear his weapon prior to leaving the firing point.	L	- Safety Briefing - Unit SOP - Command Oversight		
Clear Weapons	Weapons Malfunction/Misfires	M	- If a weapon is not cleared by applying immediate or remedial actions, Cadre will clear the weapon at the firing point before taking it off the firing line.	L	- Safety Briefing - Unit SOP	- Drill Sergeant - Range Safety Officer	
Clear Weapons	Ammunition Malfunction/Misfires	M	- RSO will suspend all firing if a malfunction involves damage to a weapon or injury to personnel. - RSO will notify QASAS at 544-7490/7489	L	- Safety Briefing - Unit SOP - Supervised Rehearsals	- Drill Sergeant - Range Safety Officer	
Eye and Hearing	Eye/Hearing Injuries	M	- Soldiers will wear ballistic eyewear while firing. - Soldiers will wear hearing protection while conducting all scenarios.	L	- Safety Briefing - Unit SOP - Command Oversight	- Drill Sergeant - Range Safety Officer	
Removal of ammunition from range	Unauthorized removal of ammunition from range	M	- Cadre will conduct a through brass and ammo check prior to leaving the range - Ammunition NCO will maintain accountability of ammunition and expenditures.	L	- Safety Briefing - Unit SOP - Command Oversight	- All Cadre - Ammunition NCO	
Weather	Weather and Changing Conditions during Training	M	- Company Commander will adjust his daily risk management worksheet as conditions change ie weather (Storms, hot, cold), range malfunctions, cadre availability,etc.	L	- Command Oversight - Conduct Daily Risk assessment	Company Commander	



RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



EMD Number: 1126902

Project#: Unknown

Project Title: 25 - 200 meter Zero, Basic, Advanced, Barricade, and Reflexive Fire Marksmanship Training BTT 1-3, FTT 1-5

Description of proposed action:

These training events will access Basic, Advance Rifle Marksmanship, Buddy Team Movement and Fire Team Movement Training. Both Blank and Live Fire. Company elements will utilize old portions of Griswold Range to include Known Distance and 25 meter Zero Range.

Project Location:

Griswold Range

Amount, Description, Location of Disturbance/Digging:

None

Number/Types of Vehicles:

1 1/2 Ton Truck (2ea), Chevy S10

Number of Personnel:

220

Type of Ammunition:

5.56mm, Smoke, Grenade Sims Live and Blank

Number/Types of Trees:

None

Size of Project Area:

Duration of Action: Start: 10/31/2011 Stop: 9/30/2012

Proponent: michael.mccardell 544-0103

Organization/Unit: 1st Battalion, 50th Infantry Regiment

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

Natural Resources - RCW

Conditions:

Michael Barron (706 544 7080), 10/17/2011

See attached conditions. Unit may not use special objective set up for 3-75th Rangers. Note locations of red-cockaded woodpeckers (RCW) on attached maps. Training restrictions apply. Unit commanders must make sure that all troops know the locations of restricted areas and understand these training restrictions. This is imperative since night training may occur. Boundaries are often hard to see at night, but this is no excuse for violations to occur. Two hour time restriction is for 2 hours once every 24 hour period. Note where digging may not occur. All trenches, fighting positions, etc must be filled in prior to leaving an area. There must be no cutting down or intentional destruction of any pine trees throughout the requested area(s).

Noise

Conditions:

Ellis Leeder (706 545 7576), 9/26/2011

This is normal training operations that must be conducted. If there is any noise complaints received, the Environmental Management Division Installation Operational Noise Monitoring Program (IONMP) and or Public Affairs Office (PAO) programs will investigate 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 into public areas or roads. CS gas use should be utilized in designated areas only, contact Range Control for a listing of approved sites. If any assistance or a copy of MCoE Regulation 350-19 or the IONMP noise program is needed for review, please feel free to contact Ellis Leeder at 706.545.2400 or email ellis.leeder@us.army.mil

EMD Number: 1126902

IJO# Unknown

Project Title: 25 - 200 meter Zero, Basic, Advanced, Barricade, and Reflexive Fire Marksmanship

CWA - Training

Conditions:

Jessica Taylor (706-604-4572), 10/3/2011

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.

Hazardous Materials/Waste

Conditions:

Dudley Carson (706 545 7570), 9/29/2011

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.

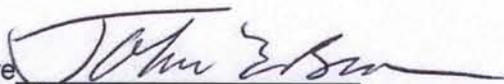
All excess, unused munitions (including smoke canisters) must be returned to the Ammunition Supply Point (ASP) after the range operation is complete. Defective, misfired, or otherwise unserviceable munitions may be destroyed on the range, as part of the training exercise, in coordination with EOD.

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.

Signature



John E Brown

NEPA Program Manager

Date

17 Oct 2011

Signature



Christopher E. Hamilton, PhD

EPMB Chief

Date

17 Oct 11

RECORD OF ENVIRONMENTAL CONSIDERATION (FB FORM 144R) CONTINUED....

RECORD NUMBER: 1126902

1. Backfill all fighting positions before leaving the training area.
2. There are several Red-cockaded woodpecker clusters located in the area. Note locations on attached map. An exception is granted to conduct live fire on Griswold Range but restrictions apply to the clusters and area adjacent to the Range (see attached). Units must not fire in the direction of the banded trees on the either side of the range. All fire should be to the north and must be concentrated at established targets. Two white bands mark cavity (nest) trees. The cluster boundaries extend approximately 200 feet from the cavity trees and are marked by signs indicating the area is an RCW cluster. All target positions must be backstopped to minimize bullet damage to surrounding trees. These backstops must be maintained to be effective. No positions may be created, moved or expanded without concurrence with Conservation Branch. The Griswold LFX located to the west of Griswold Range in A25 is currently closed and may not be used for live fire exercises.
 - a. **Activities in cluster boundaries are limited to 2 hours with the following activities allowed:** Hasty defense-light infantry-hand digging, foot traffic, wheeled-vehicle traffic (must stay 50 feet from marked trees), vehicle maintenance, 7.62-mm and lower blank firing, artillery/hand grenade simulators, Hoffman type devices, smoke/haze operations-generators or pots (smoke can drift into, but source must be outside boundary), star cluster/parachute flare, cutting of hardwoods for camouflage (do not cut pines).
 - b. **The following activities are not allowed in the cluster boundary:** No other digging, establishment of command post, assembly area operations, established CS/CSS sites, live fire, noise generators, incendiary devices (including trip flares), CS/Riot gas, HC smoke, tank ditches, deliberate individual fighting positions, crew served fighting positions, vehicle fighting positions, force reduction positions, vehicle survivability postings.
 - c. Within ½ mile of a cluster, there is no mechanical digging within 20 feet of a mature pine tree (8 inches diameter at breast height or greater).
3. Report all wildfires to Range Control ASAP.

MICHAEL G. BARRON
Wildlife Biologist, NRMB
544-7080/7319

TRAINING ACTIVITY WITHIN 200' BUFFER ZONE	
Maneuver and Bivouac:	
Hasty defense, Light Infantry, Hand digging only, 2 hrs max	yes
Foot Transit	yes
Wheel/Track Vehicle Transit	yes (1)
Cutting Hardwood Camouflage	yes
Vehicle Maintenance, 2 hrs max	yes
Hasty defense, Mechanized Infantry/Armor	no
Deliberate Defense, Light Infantry	no
Deliberate Defense, Mechanized Infantry/Armor	no
Established Command Post, Light Infantry	no
Assembly Area Operations, Light Infantry, Mech Infantry/Armor	no
Established CS/CSS Sites	no
Weapons Firing:	
7.62mm and Below Blank Firing	yes
.50 Cal Blank Firing	yes
Artillery Firing Position	no
MLRS Firing Position	no
All Others	no
Noise:	
Artillery/Hand Grenade Simulators	yes
Hoffman Type Devices	yes
Generators	no
Pyrotechnics/Smoke:	
Smoke, Haze Operations, Generators or Pots	yes (2)
Smoke Grenades	yes
Star Cluster/Parachute Flares	yes
Incendiary Device to Include Trip Flares	no
CS/Riot Gas	no
HC smoke of Any Type	no
Digging:	
Hasty Individual Fighting Positions, Hand Digging Only	yes
Tank Ditches	no
Deliberate Individual Fighting Positions	no
Crew-served Weapons Fighting Positions	no
Vehicle Fighting Positions	no
other survivability/Force Reduction positions	no
Vehicle Survivability Postings	no

Note: Yes means that the activity may be conducted within 200 feet of a marked cavity tree

- (1) Vehicles (wheel and track) will not get closer than 50 feet of a marked cavity tree unless on an existing road or trail
- (2) Smoke generators and smoke pots will not be set up within 200 feet of a marked cavity tree, but the smoke may drift inside the 200 foot buffer



red-cockaded
woodpecker

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 measure, 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**

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/NCOIC: _____

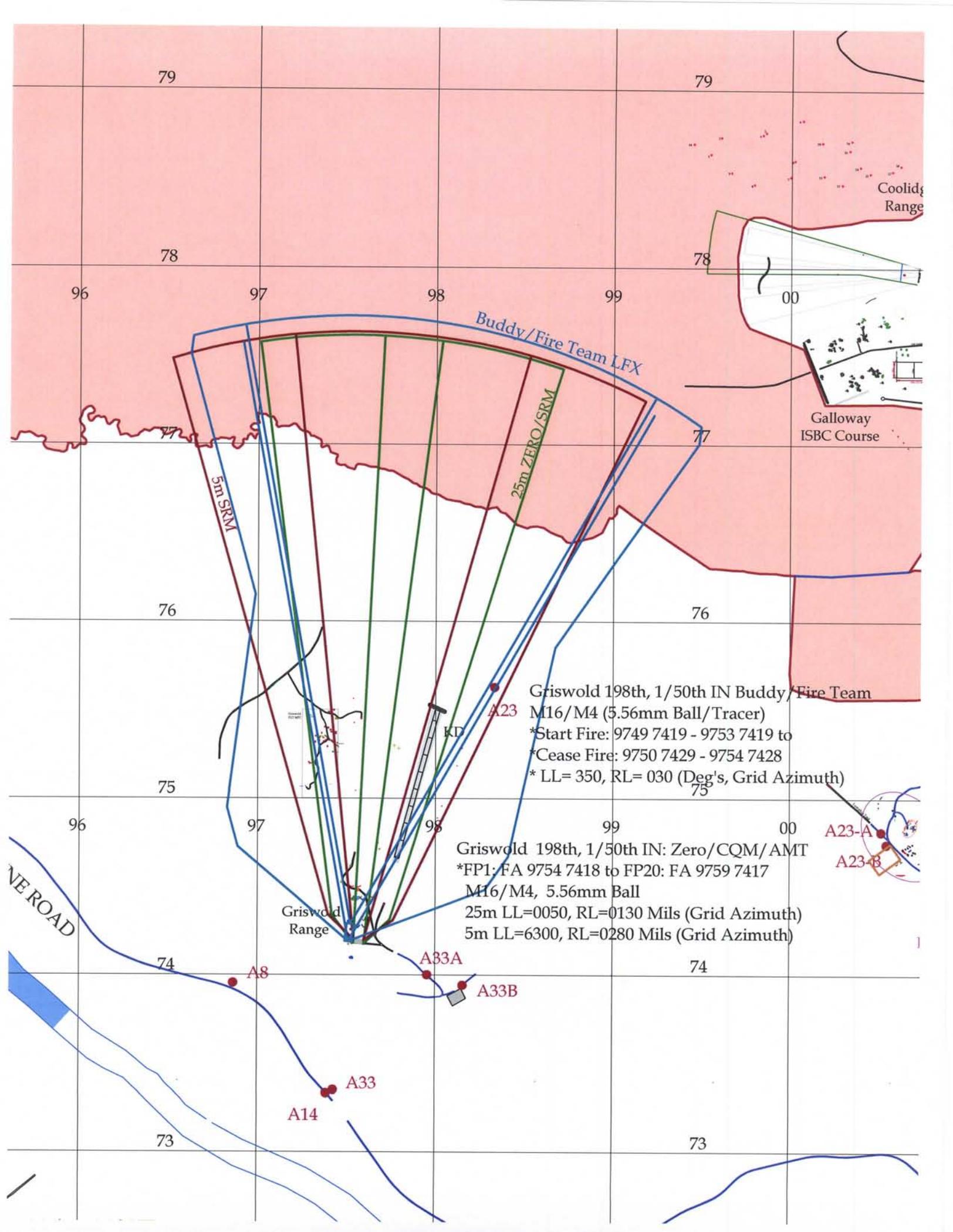
Training Area: _____

Grid Coordinates: _____

Date and Name: _____

Signature: _____

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



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Buddy/Fire Team LFX

Coolidge Range

Galloway ISBC Course

5m SRM

25m ZERO/SRM

76

76

75

75

Griswold 198th, 1/50th IN Buddy/Fire Team
 M16/M4 (5.56mm Ball/Tracer)
 *Start Fire: 9749 7419 - 9753 7419 to
 *Cease Fire: 9750 7429 - 9754 7428
 * LL= 350, RL= 030 (Deg's, Grid Azimuth)

Griswold 198th, 1/50th IN: Zero/CQM/AMT
 *FP1: FA 9754 7418 to FP20: FA 9759 7417
 M16/M4, 5.56mm Ball
 25m LL=0050, RL=0130 Mils (Grid Azimuth)
 5m LL=6300, RL=0280 Mils (Grid Azimuth)

A23-A
 A23-B

NE ROAD

Griswold Range

KD

A23

A8

A33A

A33B

74

A33

A14

73

73