

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: 28 May 2013
Range: Booker Breach Facility
Title: Ranger Assault Breacher Course
Problem No:

Log #

6-4-13

THRU: 75th Ranger Regiment
Fort Benning, GA. 31905

FROM: S3, RSTB, 75th Ranger Regiment
Fort Benning, GA. 31905

SECTION I, TYPE OF TRAINING

a. Live Fire b. Non-live Fire CP/Controller Coordinates: 9864 8286

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

Coordinates	Type	Model/DODAC	Size of Charges
Station 2: 9858 8285 to 9858 8284 Station 4: 9848 8279 to 9847 8278	DET CORD	M456	ALL CHARGES WILL BE UNDER 1.5 LBS NEW
Station 2: 9858 8285 to 9858 8284 Station 4: 9848 8279 to 9847 8278	DPB	X455	ALL CHARGES WILL BE UNDER 1.5 LBS NEW
Station 2: 9858 8285 to 9858 8284 Station 4: 9848 8279 to 9847 8278	ECT (300/600GR)	X470/471	ALL CHARGES WILL BE UNDER 1.5 LBS NEW
Station 2: 9858 8285 to 9858 8284 Station 4: 9848 8279 to 9847 8278	M112 (C4)	MO23	ALL CHARGES WILL BE UNDER 1.5 LBS NEW

SECTION III, WEAPONS/AMMUNITION REQUESTED

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
Station 3 Right Side 9852 8280 to 9850 8282	M870 SHOTGUN	AA54/X104	4105 MILS Grid Az	4505 MILS Grid Az
Station 3 Left Side 9853 8284 to 9854 8281	M870 SHOTGUN	AA54/X104	0905 MILS Grid Az	1305 MILS Grid Az

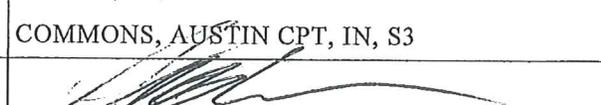
SECTION IV, LIVE FIRE EXERCISES Attach the following:

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

SECTION V, NON-LIVE FIRE TRAINING

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

Name/rank of requesting officer:
JORDAN, CAMDEN S. CPT, IN, BN AS3


Name/rank of Major Unit S3/Commander:
COMMONS, AUSTIN CPT, IN, S3


SECTION VI, FOR RANGE DIVISION USE

DATE: 24 June 2013

TO: S3, RSTB, 75th Ranger Regiment
Fort Benning, GA. 31905

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

- a. Roadblocks to be closed:
- b. Road(s) to be closed/road barrier locations:
- c. Remarks:
- d. This approval expires: 23 Jun 15

Guards place at A45A roadblock will have communications with OIC.

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





REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
SPECIAL TROOPS BATTALION, 75TH RANGER REGIMENT
6350 ASHLEY AVE. BLDG 2852
FORT BENNING, GEORGIA 31905

AORG-STB-STC

28 May 2013

MEMORANDUM FOR: Chief, Range Operations, Fort Benning, Georgia, 31905

THRU: Regimental Selection and Training Company, Regimental Special Troops Battalion, 75th Ranger Regiment, 6350 Ashley Ave., Fort Benning, Georgia 31905

SUBJECT: Ranger Assault Breacher Course (RABC), Ranger Assessment and Selection Program (RASP) - Booker Range

1. Commander's Intent: Train RASP students on all tools and components of the Regimental Breacher's kit, as well as exterior door breaching charges used in a MOUT environment. RASP students will have a technical and tactical understanding of the tactical directive of breaching and a full understanding of a skill level one breacher's duties and responsibilities. This will include the MDMP, understanding ROE, and mission requirements related to breaching. Upon completion, students will be able to employ the mechanical, ballistic, and explosive (limited) components of the breacher's kit in a tactical setting under various circumstances. Students will also be trained to build the standard Ranger door breaching charges, calculate the NEW and MSD of those charges, determine which charges to use in various circumstances, understand the capabilities and limitations of the charges used in the course, and understand TTPs for their use.
2. Concept of the Operation: The RASP RABC Course is a five day course which includes one day of classroom instruction and four days of practical exercises using all the tools in the Regimental Breaching Kit, including building and detonating various external door charges. All bays will be utilized for training.
3. Timeline:
 - a. Day 1
 - (1) 0830-0900 – Occupy range
 - (2) 0915-1215 – Classroom instruction (mechanical/thermal/ballistic)
 - (3) 1215-1300 – Chow
 - (4) 1300-UTC – Classroom instruction (explosive)
 - b. Day 2
 - (1) 0830-0900 – Occupy range
 - (2) 0930-1200 – Ballistic hands on
 - (3) 1200-1300 – Chow
 - (4) 1300-1500 – Ballistic hands on
 - (5) 1500-UTC – Thermal hands on

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c. Day 3

- (1) 0830-0900 – Occupy Range
- (2) 0900-1300 – Ballistics hands on
- (3) 1300-1330 – Chow
- (4) 1330-1500 – Ballistics hands on
- (5) 1500-UTC – Thermal and Kwiki Saw hands on

d. Day 4

- (1) 0830-0900 – Occupy Range
- (2) 0900-1300 – Explosives hands on
- (3) 1300-1330 – Chow
- (4) 1330-UTC – Explosives hands on

e. Day 5

- (1) 0800-0815 – Occupy range
- (2) 0815-0915 – Classroom written exam
- (3) 0915-1300 – Explosives hands on
- (4) 1300-1330 – Chow
- (5) 1330-UTC – Explosives hands on

4. Range Operations: During the range occupation process, the shotgun ammunition and explosives will be delivered and broken down at the ammunition holding area (AHA) located at Station 7. Storage of explosives in the ammunition point will be IAW DA-PAM 385-63, TM 9-1300-206 and FM 3-34.214/MCRP 3-17.7L. Blasting caps and explosives will be separated and stored in field ammunition supply points. A guard will maintain control of the AHA. A minimum of two 10 BC fire extinguishers will be in the AHA. No meals will be eaten in the AHA, and all trash will be removed as it is generated. The NCOIC will conduct all range orientation and safety briefs, issue radios as necessary, and post a guard at the entrance gate to Booker Breaching Facility (A45A). The guard will remain in place while the range is occupied. The NCOIC will request a hot opening code from Range Control prior to conducting live fire training.

5. Description of hands on training: Students will receive hands on training at Station #1 pertaining to the safe employment of military explosives and various methods of ballistic, thermal, mechanical, thermal and explosive breaching, utilizing all inert training aides. Students will learn to build 11 charges utilizing MK 54 and M81 dual initiators and Pen Guns. Students will also train on mechanical and ballistic (frangible shotgun rounds) breaching of metal doors and locks.

6. Description of Live Fire: NCOIC/leaders will maintain supervision of explosives (Station 5) during the construction and placing of charges. Students will transport charges by hand, with the

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charge in one and the detonating system in the other, from Station 5 to Station 2 and/or 4. The charge will not be connected to the detonating system during any movement. Movement of charges will be under close supervision of range cadre. All charges will be dual primed after they are placed on the door. Once all charges are placed, students will return to the bunker (Station 6) except for the breach team, which will remain outside the MSD at a 90 degree angle from the charge behind blast shields in accordance with the current approved waiver and MSD charge calculations outlined in RTC 350-19 with an instructor and RSO. Once the charges are detonated, the NCOIC/RSO will determine the all clear, at which time students will exit the bunker to inspect their charges. All training will be conducted at a 10 to 1 student to instructor ratio to maximize training safety. In the event of a misfiring demo charge, the call of "misfire" will be made and all personnel will remain in the bunker for no less than 30 minutes. After 30 minutes, the NCOIC or RSO will move to the charge and conduct a visual inspection. If the NCOIC/RSO deems conditions of the charge to be stable/safe, another charge will be placed next to the misfiring charge and they will be blown in place. If the RSO/NCOIC deems the charge to be unstable/unsafe he will notify EOD and all personnel will remain in the bunkers until EOD eliminates the unstable charge.

- a. ECT 300 Grain, .14 NEW/MSD 10'/FMSD 155'
 - b. ECT 600 Grain, .22 NEW/MSD 11'/FMSD 180'
 - c. ECT 300 Grain Nun-Chuck, .21 NEW/MSD 11'/FMSD 179'
 - d. C1 Rubber Strip, .11 NEW/MSD 9'/FMSD 135'
 - e. C2 Rubber Strip, .13 NEW/MSD 10'/FMSD 148'
 - f. Flex Linear Charge (Data Sheet), .24 NEW/ MSD 12'/FMSD 188'
 - g. Flex Linear Charge (Det. Cord), .32 NEW/ MSD 13'/FMSD 206'
 - h. Flex Linear Lock Buster (Det. Cord), .8 NEW/MSD 8'/FMSD 124'
 - i. Flex Linear Lock Buster (Data Sheet), .24 NEW/MSD 12'/ FMSD 188'
 - j. Rubber Pad (Data Sheet) C2, .24 NEW/ MSD 12'/ FMSD 188'
 - k. Rubber Pad (Data Sheet) C3, .24 NEW/ MSD 12'/ FMSD 188'
7. Ballistic (shotgun) breaching will be conducted in Stations 1, 2, and 3. Metal racks and BTI doors are secured to the ground inside each station. BTI doors are specifically designed for

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ballistic (shotgun) breaching and are equipped with a bullet catching system to prevent shrapnel and debris. Prior to conducting live fire exercises, students will receive weapons familiarization and conduct multiple dry fire iterations. Door hinges and door strike locks will be made of metal and attached prior to conducting live fire operations. Five students will participate in each iteration. The NCOIC will control the issue of weapons systems upon completion of dry rehearsals, and their collection after live fire training. No ammunition will be issued from the AHA until all rehearsals are complete. Any unused ammunition will be returned to the AHA. Each student will go through a scenario of loading, unloading, right/left shoulder, and hip positions. Each student will be issued ten rounds from the AHA and instructed not to load their weapon until told to do so. Each student will move to the live fire area under supervision of the RSO. The NCOIC will issue the command to clear the weapon and prepare it to load by placing the weapon on fire and conducting a dry fire. Students will then be instructed to load three rounds into magazine tube of the weapon with the chamber left empty. Students will then be instructed to breach the door. They will tactically move to the door, chamber a round, and place the barrel zero to two inches off the striker of the door at a 45 degree angle in and down. Students will then fire two rounds in a figure eight pattern around the strike plate, leaving the empty shell husk in the chamber. Students will then kick the door open and rotate back out of the doorway. Students will then load two more rounds into the magazine tube of the weapon and move up to the hinges and fire one round at the center hinge, waist level with the barrel of the weapon pointing 10 to 45 degrees down. Students will then fire one round into the lower hinge from a kneeling position, with the barrel pointed 10 to 45 degrees down and 45 degrees in with the barrel zero to two inches off the hinge. Students will then rotate back out of the doorway and be given the order to clear the weapon. Instructors will inspect each weapon system to ensure all chambers are clear.

8. Thermal Breaching: Thermal breaching (oxygen and plasma torch) will be conducted outside of Station 6 in a gravel pit. Prior to conducting live fire operations, students will receive familiarization on the use of the torch system and conduct dry fire iterations. Students will be supervised by an instructor and RSO during live fire iterations. All cuts will be conducted facing the northwest of the range.

9. General Safety: Ballistic and explosive breaching will not be conducted simultaneously. A guard with communications equipment will be posted at the entrance to the range to control access during live fire operations. The guard will maintain continuous communications with the OIC/NCOIC/RSO. Range control frequency will be monitored by the NCOIC/RSO. Charges will only be fired in designated areas. Students will remain in the bunker (Station 2 or 4) after every blast until the all clear is given by the NCOIC. All misfires will be handled IAW FM 3-34.214. A medic and designated casualty evacuation vehicle will be on the range at all times while occupied. Medical support will be provided IAW MCOE Regulation 350-19. The NCOIC/RSO is responsible for safety within the area of range operations IAW AR 385-63. The minimum

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protective uniform equipment worn during live fire exercises will include MICH, body armor, gloves, and hearing and eye protection. The NCOIC/RSO will conduct inspections to ensure the proper uniform is worn during training. Students will hydrate before, during and after training IAW Ft. Benning Form 7. Leaders will adjust uniform, work levels, and rest periods IAW USASOC Reg-385-1 and changing weather conditions.

10. MEDEVAC Procedures: NCOIC/RSO and on site medic will determine what type of medical evacuation is the most appropriate for the injury. On site CASEVAC vehicles will be utilized for minor injuries; an ambulance will be utilized for serious injuries. NCOIC/RSO is responsible for calling 911 if necessary. NCOIC/RSO will report to Range Control and higher headquarters.

11. Police and Clearance of Range: Upon completion of all training, the range will be policed for trash and all debris will be removed. The NCOIC will inspect the range for cleanliness prior to departure.

12. Command and Signal: The RSO/NCOIC will maintain communications with Range Control via FM at all times. The NCOIC/RSO will maintain communications with the gate guard at all times.

13. In the event of an accident or injury the RSO will immediately call a cease fire until the problem is resolved, and contact Range Control for further guidance. In the event of an injury that could result in the loss of life, limb, or eyesight the NCOIC/RSO will call E911 and request air/ground evacuation. The NCOIC/RSO will furnish the following information to Range Control:

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

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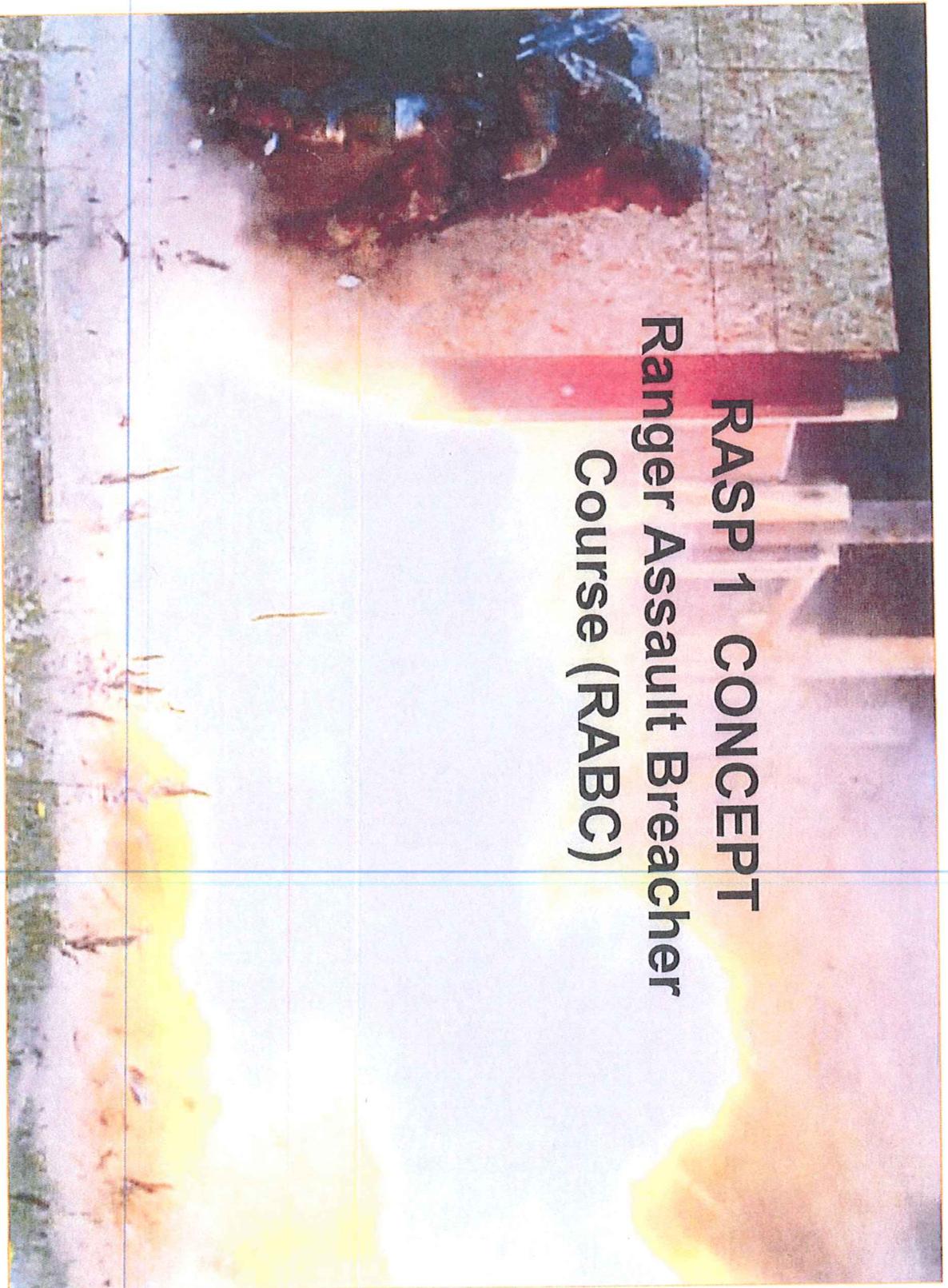
SUBJECT: Ranger Assault Breacher Course (RABC), Ranger Assessment and Selection Program (RASP) - Booker Range

14. The point of contact for this memorandum is CPT Ryan Mannina, RSTC Executive Officer, at (706)545-3800 or ryan.mannina@ahqb.soc.mil.

A handwritten signature in black ink, appearing to read 'PATRICK T. STONE', with a long horizontal flourish extending to the right.

PATRICK T. STONE
MAJ, IN
Commanding

RASP 1 CONCEPT
Ranger Assault Breacher
Course (RABC)



SUBJECT : RASP 1 LEVEL 1 DEMO COURSE

1. Purpose: Establish RABC Course for RASP 1

2. Training Objectives:

- To train RASP students on all tools and components of the Regimental Breachers kit, as well as exterior door breaching charges used in a MOUT environment. RASP students will have a technical and tactical understanding of the tactical directive of breaching and a full understanding of a skill level one breachers duties and responsibilities. This will include the MDMP understanding ROE and mission requirements and how it relates to breaching. On completion students will be able to employ the mechanical, thermal, ballistic and explosive (limited) components of the breachers kit in a tactical setting under various circumstances.

- Trained to build the standard Ranger door breaching charges, calculate the NEW and MSD of those charges, determine which charges to use in various circumstances, understand the capabilities and limitation of the charges used in the course, and understand TTP's for their use.

3. General: The RASP (RDEC or RABC) Course is a five day course which includes one day of classroom instruction and four days of practical exercises using all tools in the Regimental Breaching Kit as well as building and detonating various external door charges.

UNIFORM:

Day 1 = Duty Uniform, Notepad, Pen and Pencil, Calculator, issued Shot log (blank) to take with them to their Bn
for continued use

Day 2-5 = Field Uniform, Full Kit (RLCS, MICH, Eye, Ear, Hand pro.) weapon, NVG's

LEVEL 1 TRAINING SCHEDULE

DATE	TRAINING	LOCATION
MONDAY	0900-1200 Intro to breaching 1200-1300 Lunch 1300-1700 Intro to explosives, Ranger door charge calculations	Classroom
TUESDAY	0900-1200 Ranger Breach Kit components class 1200-1300 Lunch 1300-1700 P.E. with Mechanical, Thermal Breaching	Classroom/ Brann Range
WEDNESDAY	0900-1200 Ballistic Breaching class/ PE 1200-1300 Lunch 1300-1700 Cadre led P.E. on Explosive door charges, rehearsals	Brann Range
THURSDAY	0800-1100 NEW, MSD, Ranger Breaching charges classes 1100-1200 Charge construction 1200-1300 Lunch 1300-1700 Door / Window charges PE 1700-UTC NVG iterations	Classroom/ Brann Range
FRIDAY	0600-0800 Test 0800-1200 Full tactical "problem solving" iterations 1200-1300 Lunch 1300-1700 Full tactical "problem solving" iterations/ Re- Test	Classroom/ Brann Range

DAY 1

0900-1200 / CLASSROOM INSTRUCTION

- Introduction to Breaching
- Breachers Responsibility
- Understanding Breaching as it relates to ROE and Commanders Intent

1200-1300 / LUNCH

1300-UTC / CLASSROOM INSTRUCTION

- Intro to explosives
- Explosives Hazards
- Explosives Safety
- Prime Military Explosives
- Firing Systems
- Initiating Sets
- Explosive Theory
- Calculations for Ranger door charges (NEW, MSD)

DAY 2

0900-1200 Ranger Breaching Kit

- Cover all components use and operation, as well as CARE OF EQUIPMENT of kit
- Operational vignettes (cadre provided) and use of quick saw, Broco and tools in different circumst:

1200-1300 LUNCH

1300-UTC LIVE USE PE ON MECHANICAL, THERMAL BREACHING

- Round robin set up on Brann Range facility on
1. Mechanical Breaching (Hooligan, Sledge, Alti ram)
 2. Quick cut SAW
 3. Broco Torch

DAY 3

0900-1200 BALLISTIC BREACHING CLASS

- Operation and care of M870 shotgun
- different types of ammunition available
- kit set up and carry of the shotgun
- hand and arm signals
- operational considerations

1200-1300 LUNCH

1300-1600 BALLISTIC PE

- Ballistic breaching live fire
- Emergency reloads (single man)
- Team scenario with multiple doors
- Hinge shots and lock shots

1600- UTC CADRE LED PE ON EXPLOSIVE DOOR CHARGE ASSESMENT AND PLACMENT

- Breachers assessment
- Charge placement
- Breach team rehearsals

DAY 4

0900-1200 LIVE FIRE PE (BUILD RANGER BREACHING CHARGES)

- 300 GR ECT Lock buster x 4 (Light wood doors)
- One strand Flex Linear x 4 (Light wood doors)
- 600 GR ECT Lock buster x 4 (Heavy wood doors)
- Two strand Flex Linear x 4 (Heavy wood doors)
- C1 Rubber strip charge x 4 (Light metal doors)
- C2 Flex Linear charge x 4 (Light metal doors)

1200 -1300 LUNCH

1300 – UTC LIVE FIRE PE (FIRE RANGER BREACHING CHARGES)

- Fire Ranger Breaching Charges
- NVG iterations
- Test Review

LIVE FIRE PE (RANGER BREACHING CHARGES)

300 GR LOCK BUSTER X 4

- 5 GRAM BOOSTER
- 14" ECT 300 GR
- 18" DET CORD
- 1 20' NONEL

FLEX LINEAR CHARGE (SS) X 4

- 92" DET CORD
- 1 6.4 DELAY
- 1 M81

FLEX LINEAR CHARGE (DS) X 4

- 92" DET CORD
- 80" DET CORD
- 1 20' NONEL

600 GR LOCK BUSTER X 4

- 5 GRAM BOOSTER
- 14" ECT 600 GR
- 18" DET CORD
- 1 20' NONEL

C1 RUBBER STRIP CHARGE X 4

- 10 GRAM BOOSTER
- 1" X 12" C1
- 18" DET CORD
- 1 20' NONEL

LIVE FIRE PE (RANGER BREACHING CHARGES)

C2 FLEX LINEAR X 4

- 18" DET CORD
- 1 10 GRAM BOOSTER
- 3/4" X 84" C2
- 1 20' NONEL

WATER IMPULSE CHARGE X 2

- 10' DET CORD
- 1 20' NONEL

PAD CHARGE X 2

- 5 GRAM BOOSTER
- 6" X 28" C1
- 18" DET CORD
- 1 20' NONEL

COMBINED TOTAL DAY FOUR

DET. CORD = 135'

20 GRAM BOOSTER = 6

C1 = 10'

C2 = 10'

300 GR ECT = 5'

600 GR ECT = 5'

20' NONEL = 28

6.4 DELAY = 4

M81'S = 4

DAY 5

0600 – 0800

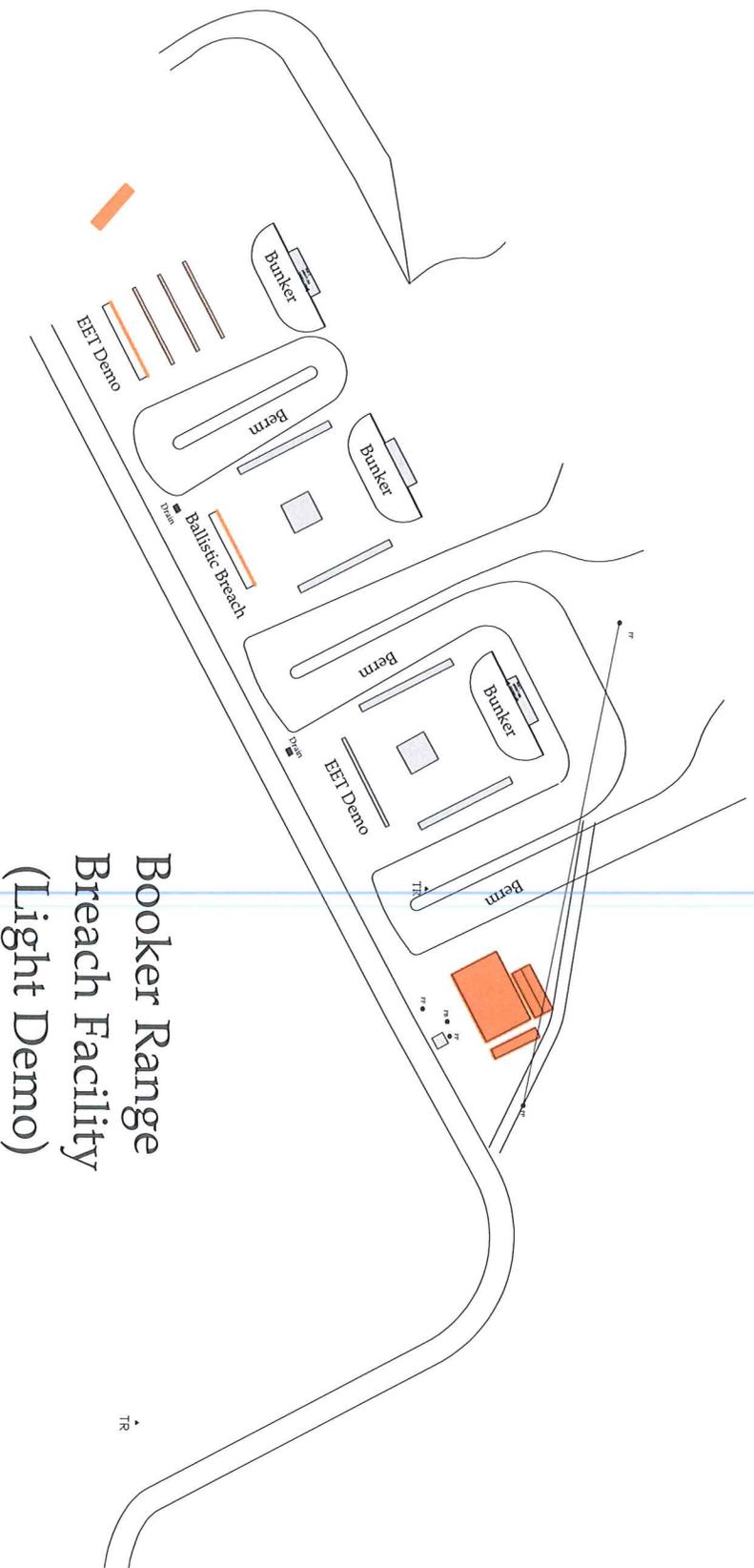
Test – N.E.W calculations, MSD calculations on Ranger Door Charges
General knowledge on Breach kit, use and care

0900- UTC CULMINATION TRAINING

- PCI's of kit, charge builds
- Tactical breaching scenarios
- Problem solving
- “Bounce” iterations
- Cadre act as SL's controlling the breach element
- Round Robin set up at Brann

ENDSTATE

- On course completion RASP 1 students will be a T on basic and intermediate Mechanical, Thermal and exterior explosive breaching techniques as well as qualified to PCI all components in the Ranger Breach Kit.



Booker Range
Breach Facility
(Light Demo)

Booker Breach Facility (Light Demo)



Booker Range Breach Facility (Light Demo)



Booker 75th Ranger Assault Breacher Course Roadblock List (Log #05-10-11) 15 March 2011

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

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

COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK Ranger Assault Breacher Course (Booker Demo Pit)	2a. DTG BEGIN REOCCURRING 11 JUNE 2013	2b. DTG END 11 JUNE 2014	3. DATE PREPARED (YYYYMMDD) 20130515
4. PREPARED BY			

a. LAST NAME		b. RANK	c. POSITION				12. WAS CONTROL EFFEC-TIVE?
Paquette		SFC	RASP 1 NCOIC				
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	
ALL	Range/General Situational Awareness	M	The Range Officer in Charge (OIC)/Safety Officer (RSO) will do the following: 1. Read and review the Risk Assessment	L	OIC/RSO follows instructions. Cadre read and follow FBGA RC SOP	OIC/RSO/CADRE	
			2. Ensure Ranger medic or RFR Qualified Ranger with trauma kit and a dedicated vehicle with driver are available. Medic will be in communication with RSO/OIC at all times.		Provide a detailed safety brief to all Rangers		
	Heat and Cold Weather Injury to Personnel	M	Rangers will hydrate before, during and after training IAW Cadre guidance. Cadre will adjust uniform, work levels and rest periods IAW USASOC 385-1 and changing weather conditions. Rangers who have been prior heat or cold weather injuries will be identified prior to training and will be closely monitored.	L	OIC/RSO follows instructions. Cadre read and follow FBGA RC SOP	OIC/RSO/CADRE	
	Eye and Hearing Loss	M	Brief all Rangers on the dangers of airborne debris; ballistic eye protection is worn by all Rangers. Ensure Rangers are wearing hear protection at all times.	L	OIC/RSO follows instructions. Cadre read and enforce USASOC 385-1.	OIC/RSO/CADRE	
	Ranger struck by lightning	M	Monitor radio net at all times for severe weather/lightning. Rangers will evacuate areas containing television antennas, relay antennas or vehicles wit whip antennas.	L	OIC/RSO follows instructions. Cadre read and follow FBGA RC SOP	OIC/RSO/CADRE	

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

Daniel E. Hugo
 DANIEL E. HUGO
 MAJ, IN Commanding

14. RISK DECISION AUTHORITY

a. LAST NAME RYAN	b. RANK LTC	c. DUTY POSITION BATTALION COMMANDER
		d. SIGNATURE <i>Daniel E. Hugo</i>

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?
ALL (CONT)	Rangers Struck by lighting	M	Rangers will not huddle together. Rangers will squat or sit disbursed on the ground. Rangers will not lie down. Rangers will remove and place on the ground all metal objects.	L	OIC/RSO follows instructions. Cadre read and follow FBGA RC SOP	OIC/RSO/CADRE	
	Ranger bitten by snakes or insects	M	OIC/RSO will inform Rangers of the various types of wildlife that are hazardous and warn them not to handle or harass the wildlife during training.	L	OIC/RSO follows instructions. Briefs Rangers on site.	OIC/RSO/CADRE	
	Trips/falls	M	OIC or RSO will brief Rangers on tripping hazards such as rocks, branches, fallen trees and uneven ground.	L	OIC/RSO follows instructions. Cadre read and enforce this RMWS while on site.	OIC/RSO/CADRE	
	Lost Ranger	M	OIC/RSO will brief actions to take if lost or separated. Provide a situation report to the chain of command and Range Control. A thorough search of the area will be conducted.	L	OIC/RSO follows instructions. Cadre read and follow FBGA RC SOP	OIC/RSO/CADRE	
	Road Conditions	M	OIC/RSO will brief on road conditions and the possible effects on vehicle and operators.	L	OIC/RSO follows instructions. Cadre read and enforce this RMWS while on site.	OIC/RSO/CADRE	
	Fire Hazard	M	Enforce no smoking within 50 feet of the ammunition point. Ensure that there are two fire extinguishers at each active ammunition point as well as the thermal cutting area.	L	OIC/RSO follows instructions. Cadre read and follow Booker RG SOP	OIC/RSO/CADRE	
Construction and placement of door charges	Fratricide/Accidental Discharge	H	A detailed safety brief will be given to all Rangers. All SOPs outlined in RTC 350-19 will be followed. All charge construction and MSD math will be closely supervised by Cadre and verified by a qualified Master Breacher prior to charge initiation. All charges will be duel primed. All firing devices will be inspected prior to training event to ensure serviceability.	M	OIC/RSO follows instructions. Cadre read and enforce USASOC 385-1	OIC/RSO/CADRE	
	Physical Injury due to fragmentation	M	Rangers will wear gloves, Kevlar, Body Armor, as well as eye and ear protection during training event. Blast shield will be used for all Rangers at the stack point. All Rangers not in the stack will be behind cover no less than 15 meters away.	L	OIC/RSO follows instructions. Cadre read and enforce USASOC 385-1.	OIC/RSO/CADRE	

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?
Construct and placement of door charges	Low order event/ UXO situation	H	Only qualified Master Breacher personnel will investigate the charge. Procedures outlined in RTC 350-19 will be followed. EOD will be called if necessary, IAW Range SOP	M	OIC/RSO follows instructions. Cadre read and follow Booker RG SOP	OIC/RSO/CADRE	
Breach a door using a shotgun	Personnel injury due to accidental discharge of a weapon	H	All Rangers will be validated no less than 5 iterations of dry fire by a qualified Master Breacher. Live ammunition will be loaded and unloaded only when facing the berm. Hatton rounds will be used on BTI doors - specifically designed to prevent shrapnel and debris and for ballistic breaching. The NCOIC will control the issue of ammo and weapons and cadre will ensure all weapons are cleared following execution.	M	OIC/RSO follows instructions. Cadre read and enforce this RMWS while on site.	OIC/RSO/CADRE	
Employ Quick Cut Saw	Personnel injury due to cut or laceration from saw	H	All Rangers will wear proper protective kit (gloves, helmet, body armor, eye pro, ear pro) while using saw. Master Breacher qualified personnel will closely monitor while saw is in use. All Rangers will be taught proper cutting techniques prior to live cut.	M	OIC/RSO follows instructions. Cadre read and enforce this RMWS while on site.	OIC/RSO/CADRE	
Employ Mechanical Breaching Tools	Personnel injury due to cut or impact from a breaching tool	M	All Rangers will wear proper protective kit (gloves, helmet, body armor, eye pro, ear pro) while using mechanical breaching tools. Master Breacher qualified personnel will closely monitor while tools are in use. All Rangers will be taught proper techniques prior to using tools on door targetry.	L	OIC/RSO follows instructions. Cadre read and enforce this RMWS while on site.	OIC/RSO/CADRE	
Employ Exothermic cutting torch	Personnel injury due to severe burn	H	All Rangers will wear proper protective kit (heavy leather gloves, helmet, body armor, eye pro) while using torch. Master Breacher qualified personnel will closely monitor while torch is in use. All Rangers will be taught proper cutting technique prior to live cut.	M	OIC/RSO follows instructions. Cadre read and enforce this RMWS while on site.	OIC/RSO/CADRE	



RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



Date Submitted: 8/31/2012

EMD Number: 1224405

Project#: M6854

Project Title: Special Demolitions and Booby Traps

Description of proposed action:

Unit will conduct basic advanced rifle marksmanship. No vehicles will travel off trails. Mout operations, urban breaching techniques and live fire shoot house.

Project Location:

Booker Range

Amount, Description, Location of Disturbance/Digging:

None

Number of Personnel:

approx. 200

Type of Ammunition:

M131,MN08,M456,MN11,M12,M13
,MN06,M6,70 Live

Number/Types of Trees:

None

Size of Project Area: 17.20Acres

Duration of Action:Start: 10/1/2012

Stop: 9/30/2013

Proponent: stacey.ballesteros 706-545-5677

Organization/Unit: Range Division

Number/Types of Vehicles:

Number of vehicles:varied

Types of vehicles:5Ton vehicles,HMMWV's,HMMWV trailer,GSA vehicles,2.5T truck,FLA,4X4 truck,S10,WAT,MTV's,M77A2

Yes-Vehicles will be going off road.

What type of vehicles will be going off road:

DECISION: Concur with conditions

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

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

REC APPROVED THROUGH 30 SEPTEMBER, 2013

Natural Resources - RCW

Conditions:

Michael Barron (706 544 7080), 9/4/2012

See attached conditions. 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 2400), 8/31/2012

This is training operations that must be conducted. If there is any noise complaints received, the Environmental Management Division Installation Operational Noise Monitoring Program (IONMP) and or Public Affairs Office (PAO) programs will investigate and then recommending operational noise mitigation actions to the appropriate personnel for the training actions. In accordance with the Army's policy on environmental noise management, all efforts shall be made to minimize noise annoyances to the highest extent practicable with training operations without interfering with the proposed missions. Please follow the fly friendly program avoiding no fly zones. Please follow good smoke management practices not allowing smoke or dust to travel off Installation boundary into public areas or roads. Please increase distance between vehicles when dust conditions are extreme, see Table 5-3. CS gas use should be utilized in designated areas only, contact Range Control for a listing of approved sites. If any assistance or a copy of MCoE Regulation 350-19 or the IONMP noise plan is needed for review, please feel free to contact Ellis Leeder at 706.545.2400 or email ellis.p.leeder.civ@mail.mil or visit the Range Control Website for the updated version of MCoE Regulation 350-19

EMD Number: 1224405

IJO#

Project Title: Special Demolitions and Booby Traps

Hazardous Materials/Waste

Conditions:

Ted Williams (706 545 7579), 9/4/2012

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

3. Ensure that all containers for collection of patches and swaps are kept closed unless weapons cleaning products are being added. Contact EPMB for detailed information on the proper disposal of waste products resulting from the training. Contact POC for questions or additional guidance

CWA - Training

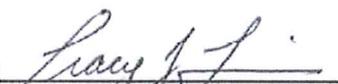
Conditions:

Leah Ropski (706 626 0492), 8/31/2012

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

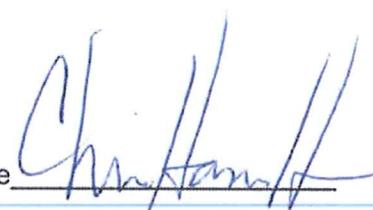
General SPCC Requirements: Ensure all hazardous materials are properly storage to prevent spill/discharges, to meet safety requirements for storage, and that containers are not exposed to the weather. Have adequate spill response supplies available during exercise for any spills that may likely occur. Use drip pans under vehicles and provide secondary containment for any fueling activities and hazardous material/waste storage. Locate all refueling operations and storage of hazardous materials/waste away from waterways and sensitive areas. See attached section on prevention procedures and CHECKlist (Example Unit/Activity SOP for Training and Deployment) to be used during training exercise to comply with SPCC plan requirements. Ensure all wastewater from field mess equipment/operations particularly those involving oil/grease are collected and dispose properly. Do not discharge any wastewater into storm drains or dispose of oil/grease waste directly into land.

General ISCP Requirements: In the event of a spill/discharge -- notify Range Control by radio or call 544-6291, and they will notify E-911 for Fire Department/HAZMAT Team assistance and/or notification of the EMD office (Spill Beeper 706-317-6584). As appropriate, and if personnel are trained -- REACT to minimize spill damages. Submit a spill report to the EPMB Spill Program Manager (use Spill Response Report attached). All spills reaching navigable water must be reported immediately. The unit is responsible for the final cleanup of any spill during this exercise. Coordination with this office is required for clearance of the site.

Signature 

for John E Brown
 NEPA Program Manager

Date 6 SEP 2012

Signature 

Christopher E. Hamilton, PhD
 EPMB Chief

Date 7 Sept 12