Fo	TI APS	NONFIRING DATA n 350-19; the proponent agency is DPTN	18		
TO: Chief, Range Division, Directorate of Plans, Training Fort Benning, GA 31905), Mobilization and Security	Date: FEBRUARY 11, 2015 Log # /2 - 10 - 14 Range: MALONE 01 Title: HAND GRENADE TRAINING Problem No:			
THRU: S-3, 3-16TH CAV. Fort Benning, GA. 31905		FROM: A TRP, 3-16th CAV. Fort Benning, GA. 31905			
	SECTION I, TYP	E OF TRAINING			
✓ a. Live Fire		CP/Controller Coordinates: GA 0116	5 8931		
	SECTION II, DEMOLITIONS/GRE				
Coordinates Mock Bay Area Demonstration GA 0100 8924 Bleacher GA 0150 8924	Type Grenande Incendiary TH3, M14, Inert grenade smoke M83,M18 (R,Y,V,G)	Model/DODAC G900, G901,G982,G940,G950, G945,G955, G959	Size of	Charges	
Distance & Accuracy GA 0900 8915 to GA0100 8931	Grenade Practice M69 Grenade Fuse Practice	G918, G878			
Bunker Training/6 Station Upper GA0116 8917/ Lower GA 0132 8933	Grenade Practice M69 Grenade Fuse Practice	G918, G878			
	SECTION III, WEAPONS/A	MMUNITION REQUESTED			
Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit	
Bunker Training/6 Station Training Upper/Lower Course	M16A4, M4	A080 5.56mm Blank (upon using Unit Request)	N/A	N/A	
Live Fire Exercise (6 Bays,1 Pit Per Bay) GA 0106 8966-0113 8958	Grenade Fragmentation M67	Grenade Fragmentation M67 G811	05 Deg	95 Deg	
p)					
SECTION IV, LIVE FIRE EXI	ERCISES Attach the following:	SECTION V, NON-LIVE FIRE TRAINING			
Scenario of training to be con	ducted:	Training area(s) to be occupie	ed:		
Sketch of area:		1	8		
Risk Assessment:		Scenario of training to be	e conducted:		
		Sketch of area(s) to be o	ccupled:		
Name/rank of requesting officer:	Mortar or artillery is being fired:	Risk Assessment: Name/rank of Major Unit S3/Command			
Schoffner, Sean C. MSG		Melton, Marcus H. MAJ		1	
	SECTION VI, FOR RANGE DIVIS	SION USE DATE	E: IOFEB	2015	
TO: S-3, 3-16th CAV. Fort Benning, GA. 31905		FROM: Range Division, Directorate of Plans, Train Mobilization and Security Fort Benning, GA 31905			
a. Roadblocks to be closed:	SEE SCENARIO, PA	RAGRAPH 3-Q			
b. Road(s) to be closed/road barri	er locations:				
c. Remarks:	iii.				
d. This approval expires: 9	E3 17				
Chief, Range Division Directorate of Plans, Training, Mobilis	R 11	- gu			

DEPARTMENT OF THE ARMY ASSAULT TROOP, 3rd SQUADRON 16TH CALVARY REGIMENT 316TH CALVARY BRIGADE 10195 13TH ARMORED REGIMENT ROAD - BUILDING 5117 FORT BENNING, GEORGIA 31905



REPLY TO ATTENTION OF

ATZK-SBA-A

05 December 2014

MEMORANDUM FOR RECORD

SUBJECT: Malone One Range Scenario

1. Main Body

- A. Range is opened thru range operations via radio communication.
- B. Using unit detail arrives prior to main body.
- C. Detail conducts range setup in preparation for the arrival of the main body.
- D. Main body arrives and organizes in staging area; trainees are inventoried and bee sting, hot/cold weather injuries are identified.
- E. Soldiers/Trainees are moved to the Mock Bay bleachers.
- F. Soldiers/Trainees are given a Range Orientation/Safety Brief in compliance with the DRAW DD Form 2977.
- G. Soldiers/Trainees are given a demonstration on the different types of grenades, including Smoke and Incendiary. The grenades are initiated by Range Cadre only. Once the Cadre has initiated the smoke grenades, the Soldiers/Trainees are instructed to stand up and face the rear of the bleachers. The Soldiers/Trainees are instructed to not turn around to look at the Incendiary grenade. There is a pre-positioned Cadre member approximately 75 meters behind the Trainees. That Cadre member yells "Burning" and then initiates the Incendiary grenade. Once it has completely burned out, the Soldiers/Trainees file by platoon to view the capability of the grenade on their way to receive Pre Live Ordinance Training at the Mock Bay area. (See sketches Phase one and two).

2. Pre Live Ordnance Training

- A. All Soldiers/Trainees receive hands on training on the proper left/right hand grip, safe handling techniques, and how to properly store the hand grenades.
- B. All Soldiers/Trainees are taught "Distance and Accuracy" prior to Mock Bay training.
- C. All Soldiers/Trainees are taught "Mock Bay" prior to throwing live Grenades.
- D. Soldiers/Trainees must pass both Distance and Accuracy and Mock Bay training before moving on to Live Ordinance Training. (See sketch Phase three). No exceptions.

3. Live Ordnance Training

- A. Soldiers/Trainees will be given a period of instruction at the "Live Bay" on what is expected of them by the Ground Safety.
- B. Sequence of events.
 - 1) Soldier/Trainee exits the Viewing/Ready Room and is issued two live hand grenades. (Grenades are held visible as Soldiers/Trainees proceed to their throwing pit).

ATZK-SBA-A

SUBJECT: Malone One Range Scenario

- 2) The Pit NCO Safety assumes control of the Soldier/Trainee.
- 3) Utilizing the "Fist Over" hold. Once the Soldier/Trainee enters the pit they hand the non throwing grenade to the "Pit NCO". The "Pit NCO" secures the non throwing grenade on his hand grenade Pouch. If the first grenade is a dud, the "Pit NCO" will follow dud procedures.
- C. The tower will direct all activities on the firing line. After Soldiers/Trainees exit the live bay they go back to viewing/ready room. The RSO and drill sergeants get accountability of each Soldier/Trainee after every firing order. After half of the unit has thrown, the Tower will cease fire and allow them to return to the upper or lower course to conduct Post Live Ordinance Training. After the unit has made their way to the upper/lower course, Live Bay will continue training. (See sketch Phase 4).

4. Post Live Ordnance Training

- A. When directed, the Soldiers/Trainees will return to the upper training course for the bunker class.
- B. Soldiers/Trainees will then negotiate the Qualification Course (Upper Course), which is run by their Drill Sergeants (M16s will be utilized during this Buddy Team event) No ammo will be issued for the M16's during this portion of training.
- C. All troops, weapons, equipment, ammunition and dunnage will be accounted for.
- D. Soldiers/Trainees receive a brass and ammo check by their chain of command. (See sketch Phase 5).
- E. Leveling of the range filling in holes with sand and all other range maintenance is conducted by Range Operations.

5. Ammunition

- A. Live ammunition is stored and guarded at the Live Bay area and is segregated by lot number.
- B. Practice ammo with fuses are stored in the Practice Ammo Point. (Ref. sketch, bldg #2)
- C. Only Cadre will control the ammo point.

6. Safety

- A. All training will follow the sequence above. All movement will be controlled based on unit size and training pace. Access to training areas will be dictated by ability to command and control as well as Safety concerns. Soldiers/Trainees will meet all prerequisites prior to Live Bay Training.
- B. Field Litter Ambulance (FLA) with medics will be on-site at all times.
- C. For all injuries resulting in threats to life, limb, or eyesight, on-sight FLAs are the first responders. Range Operations and E 911 will be notified accordingly.
- D. Range Operations, Home and Using units will be notified of any safety violation, incident, or injuries.
- E. Check OSUT/BCTB unit for:
 - 1: Range Request
 - 2: Ice sheets

ATZK-SBA-A

SUBJECT: Malone One Range Scenario

- 3: Wet bulb
- 4: Hearing and eye protection
- 5: Unit Commander's Risk Assessment.
- F. Ensure that using unit enforces the No Upper Body PT rule the day off hand grenade training.
- G. All personnel, to include using unit cadre and soldiers/trainees, will receive a safety briefing prior to any training taking place.
- H. All personnel will wear Kevlar/ACH helmet, Body Armor vest, hearing protection and eye protection.
- I. All Soldiers/Trainees will receive instruction on proper Grenade/Fusing techniques as well as proper usage while at Malone 1. Soldiers/Trainees will be closely monitored while fusing the training grenades. (Leather working gloves will be use during fusing process and expended shell recovery).
- J. All Soldiers/Trainees must complete Distance & Accuracy and Mock Bay training in order to throw live.
- K. All Mock Bay failures will not be allowed to throw live. All failures will be determined by the Range NCOIC and the Range Safety Officer.
- L. All Pit NCOs are certified by the company commander and are competent in the "DROP PROCEDURES" and FAILURE TO THROW PROCEDURES. (See SOP for details).
- M. All Commanders and personnel that are part of the Soldiers/Trainees chain of command that want to go into the pits to observe Trainees throwing live hand grenades will be in the same uniform as the Soldiers/Trainees and will use the far left or right sub pits of any bay, and prior to going to the pits must acknowledge that they understand the "Drop Procedures". Example: Bay #1, pit #1 will have the observer on the left side (sub pit) and pit #2 will have the observer on the right side (sub pit) of the Soldier/Trainee throwing the live grenade. This also applies to bay #2 and bay #3. All observers will proceed with the safety and Soldier/Trainee to the appropriate bay/pits and will not depart until all live grenade training is complete for all bays.
- N. Any Bay (consisting of two pits) adjacent to a DUD grenade that is not separated by an earth berm will not be utilized until the DUD grenade has been cleared by EOD. If, the dud grenade is in bay #2 (either pit), then all live grenade training will cease. The rule applies to bay #2 only. Live grenade training is allowed in bays #2 and #3 if a dud grenade is in bay #1 and allowed in bays #1 and #2 if a dud grenade is in bay #3.
- O. All Risk Management Worksheet controls will be observed. Violations of any will be brought to the attention of the NCOIC, RSO, Range Cadre and DS cadre.
- P. All fire extinguishers will be operational and in place.
- Q. Prior to the Live Fire portion a Guard will be posted at grid (GA01142 89390), to control personnel from entering the Live Fire area of the grenade range.
- R. Dud Procedures:
 - 1. Activities in that bay will cease.
 - 2. All throwers and cadre in that bay will wait in their throwing pit for 5 minutes before exiting to shelter in a covered position.
 - 3. Range Operations and EOD will be notified immediately.

ATZK-SBA-A

SUBJECT: Malone One Range Scenario

- 4. Adjacent Bays may continue training as long as there is a berm separation from the dud unless the DUD grenade is BAY #2. See paragraph 3-N above.
- 5. Once EOD arrives all bays will cease activities until the dud has been neutralized.
- S. Live grenades will not be thrown into standing water, deep snow, or dense vegetation.
- 7. The point of contact for this memorandum is SFC Valdez, Daniel, the Master Trainer for Malone 1, at 706-626-6509.

PATRICK M. WHITE

CPT, IN

Commanding



RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



Date Submitted; 9/16/2014

EMD Number: 1426005

Project#: Unknown

Project Title: EMPLOY LIVE HAND GRENADES

Description of proposed action:

DURING THIS BLOCK OF INSTRUCTION SOLDIERS WILL BE REQUIRED TO EMPLOY LIVE HAND GRENADES, IDENTIFICATION, CONDUCT QUALIFICATION COURSE.

Project Location:

Amount, Description, Location of Disturbance/Digging:

MALONE 01

None

Number of Personnel:

Type of Ammunition:

Number/Types of Trees:

220

LIVE, FUSE PRACTICE GRENADE, SMOKE & 5.56 MM Live and Blank

None

Size of Project Area: N/A

Duration of Action:Start: 10/1/2014

Stop: 9/30/2015

Proponent: paul.joseph

706-626-6509

Organization/Unit: 316th CRgt

Number/Types of Vehicles:

None

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, 2015

<u>Cultural Resources - Archeological</u>

None

Edward Howard (706 545 1898), 9/25/2014

Natural Resources - RCW

None

Michael Barron (706 544 7080), 9/19/2014

Hazardous Materials/Wasto

Conditions:

Carlos Ariasochoa (706 545 1857), 9/18/2014

Considerations for Training Exercises:

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

Any wastes generated must be evaluated for their hazardous characteristics and disposed of in accordance with all Federal, State and Fort Benning Hazardous Waste Regulations. Appropriate precautions must be taken to prevent hazardous material spills. Adequate quantities of spill response supplies must be on hand while work is being performed. If a spill occurs use notification procedures as outlined in the Fort Benning Hazardous Waste Management Plan Chapter 14. Contain and clean up any spill according to guidance provided by the Environmental Programs Management Branch. EPMB provides an 8 hours course covering Hazardous Materials/Waste Management, Hazardous Waste Minimization, Safety, and Pollution Prevention.

EMD Number: 1426005

IJO# Unknown

Project Title: EMPLOY LIVE HAND GRENADES

Noise

Conditions:

Ellis Leeder (706 545 2400), 9/17/2014

This is training operations request for training. If there is any operational 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. This 144r must be present at the training site when occupying compartment or ranges.

CWA - Training

Conditions:

Leah Ropski (706 626 0492), 9/17/2014

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 \(\)

John E Brown

NEPA Program Manager

Date

Signature_

Patrick R. Chauvey EPMB Chief

Date MSEP 2014

TRANSMITTAL, ACTION AND CONTROL For use of this form see MCoE Memo 25-52; the proponent is SGS								
1. SGS LOG:	2. IN SGS:	3. OUT SGS:		4. DATE PREPARED:				
		1. 00. 000.		7 Jan 2015				
5. SUBJECT:								
Deliberate Risk Assessment Wor	ksheet/Malone 1 Range							
6. ACTION OFFICER/OFFICE SYMBO	L/PHONE NUMBER:	7. DIRECTOR'S/COMM	ANDER'S SIGNATU	IRE:				
Schoffner, Sean C. MSG, S-3	NCOIC G26-POS 3	Melton, Marcus H. M	1aj. S-3	TARS				
SIGNATURE	✓ APF	PROVAL		INFORMATION				
SGS DCofS	GC CSM USA	IS CSM USA	ARMS CSM	☐ MCoE CSM ☐ CDID				
GC CIG	CofS SA DCG-N			Comdt, AR School CG				
1. PURPOSE: 3-16th CAV rec	uest review and approval of the	Deliberate Risk Asses	ssment Workshee	et for Log# 12-10-14				
	Safety Office reviews and appro 1-E-R	ves the Deliberate Ris	k Assessment W	orksheet and initials the FB25				
3. DISCUSSION:				1				
a. 3-16th is requesting the use of	packet # 12-10-14, Malone 1.			·				
b. Unit understands that the Delib Malone 1.	erate Risk Assessment Workshee	t must be maintained a	nd on hand while	e conducting Grenade Training on				
c. Unit will return the packet/Del Range Operations Chief. (Brad To								
4. THIS DOCUMENT IS AUTHORED I	***	ION/APPROVAL	,					
S:								
OFFICE ACTION	NAME AND DATE	OFFICE	ACTION	NAME AND DATE				
Range Ops Concus	Bus a 7 Tax							
Post Safety Concur w/C		5						
Bolesafely Concur	Al Bunch 15 Javis							
<u> </u>								
STAFF REMARKS: (Command Grou	ıp Use Only)	APPROVAL AUTHO	RITY					
		APPROVED:						
		DISAPPROVED:						
		NOTED:		<u> </u>				
		170120.						

			DELIBERATE RI	ISK ASSE	ESSMENT W	ORKSHEET		3 6	0.00	
1. MISS	ION/TASK DESCRI	אטודק	*			b2		2. DATE (DD	MM/YYYY)	
Hand C	Irenades, Malone 1	W				*		02/02/2015-0	01/02/2016	
3. PREP	ARED BY	*						_		
a. Name	(Last, First Middle	Initiai)	14		b. Rank/Grado	c. Duty	/ Title/Position	on S		
White, P	atrick M.	19		ļ	O3/CPT	Тгоор	Commander			
d. Unit		a Wo	rk Email		14.7	f. Telephone	'DSN/Comma	rcial (Include A	rea Code))	
-	Ггр 3-16 САV		k.m.white2.mil@mail.mil					26-6611		
g, UIC/C	IN (as required)	h. Tra	Ining Support/Lesson Plac	n or OPORI	D (as required)	I. Signature o	f Preparer	, 2		
-	WIDXA5		7 ВСТ/ РР			WHITE.PAT DELSON.114	WHITE PATRICK MEN PROPERTY OF THE PROPERTY OF THE PARTY O			
Five step	os of Risk Managem	ent: (1) (4)	Identify the hazards (2) Implement controls (5)	Assess the Supervise a	hazards (and evaluate (Sie	3) Develop cont op numbers not	rols & make d equal to numi	lecisions bered items on	form)	
	4. SUBTASK/SUBST	EP OF	5. HAZARD	8, INITIAL RISK LE	7. CONTRO		8. HOW TO IN	MPLEMENT/ IMPLEMENT	9. REBIDÜAL RISK LEVEL	
Details of the second	Employ Hand Gre	nades	Injury or Death due to dropped or mishandled Hand Grenade		will direct Soldier in the him and me visual observation of the grenades the Pit NCO were soldier.	ne entire time. rill each e following or to the	MCOE PM AR 385-63, procedures Ammunition Target Pract Combat	ulation 385-6-1 policies and for Firing n for Training,	: :	
			>	ЕН	dropped in Live Bay, and Soldie evacuation rehearsed i bay, exiting the back w NCO will	n the mock g the pit over all. The pit	on range op Range safet Who: NCOIC; RS Cadre; Live	y brief 60; Range	H 2	
*	1352	е.	i.		over the ba 3. If live H dropped of Live Bay, and Soldie safety drill in the mod and Soldie	ack wall. Ind Grenade is FBack Wall at then Pit NCO r execute as rehearsed k bay, Pit NCO r will assume		1.		
	91			#.E	Pit NCO w Soldier's h	the back wall. vill ensure the ead is below the back wall.		"€5)k	225	

	4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT! WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVE
	Employ Hand Grenades	Soldier Freezes After Arming the Grenade	ЕН	Pit NCO will reinforce the command "throw grenade". Pit NCO will then grasp Soldier's hand and apply pressure to the safety lever. Pit NCO will walk Soldier forward and extend his hand over the front wall. The pit NCO ensures the Soldier's head is below the front wall and lets the Soldier drop the grenade in front of the live bay pit.	How: MCOE Range and Terrain Regulation 350-19 MCOE PM 385-6-1 AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 3-16 CAV SQN policies on range operation Range safety brief Who: Pit NCO	н
	Employ Hand Grenades	Soldier Cooks-Off		Pit NCO continues to	How:	12
		Grenade	ЕН	reinforce the command "Throw, Throw, Throw" pit NCO will not attempt to grab the grenade due to the risk that the Soldier may drop it in the live bay pit.	MCOE Range and Terrain Regulation 350-19 MCOE PM 385-6-1 AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 3-16 CAV SQN policies on range operation Range safety brief Who: Pit NCO	н
	*			If Pit NCO hears metallic	Haur	1211
· +	Employ Hand Grenades	Soldier 'Milks' Grenade Prior to Throwing	ЕН	It Pit NCO nears metalite click (indicating the grenade is armed), he will reinforce the command "Throw Grenade". If he does not hear a click, he will grab the Soldier's hand and apply pressure to the safety lever.	How: MCOE Range and Terrain Regulation 350-19 MCOE PM 385-6-1 AR 385-63, policies and procedures for Firitig Ammunition for Training, Target Practice, and Combat 3-16 CAV SQN policies on range operation Range safety brief Who: Pit NCO	н [©]

	4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT! WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
+	Employ Hand Grenades	Premature Detonation at Grenade Issue Point	ЕН	Ammunition NCO maintains no more than two cases (60 grenades) at the issue point at any one time.	How: MCOE Range and Terrain Regulation 350-19 MCOE PM 385-6-1 AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 3-16 CAV SQN policies on range operation Range safety brief Who: Ammunition NCO	н
+	Employ Hand Grenades	Soldier Being Hit by Fragments from the M67 Fragmentation Grenades	ен	1. RSO ensures all Soldiers are wearing IOTV with plates while forward of the safety barrier and while throwing a live M67 fragmentation grenade. 2. NCOIC ensures medie with aid bag is in the tower during live grenade training and the ambulance is next to the live bay entrance. 3. RSO and all instructors ensure helmets are worn at all times. 4. Soldiers will be under overhead cover at all times except when they are throwing the grenades. 5. Instructors will control Soldiers under overhead cover.	How: 1. IAW MCoE Range and Terrain Regulation 350-19. 2. IAW AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat. 3. IAW Tradoc Reg. 350-29 Prevention of Heat and Cold Casualties. 4. IAW MCOE 40-14, Standardized Markings of Soldiers at Risk. 5. 3-16 CAV policies on range operation. 6. Range safety brief to leaders. Who: NCOIC; RSO, Cadre	H
+	Employ Hand Grenades	Soldier watches Grenade after thrown	н	Pit NCO will physically pull the Soldier down behind the front wall of the live bay.	How: MCOE Range and Terrain Regulation 350-19 MCOE PM 385-6-1 AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 3-16 CAV SQN policies on range operation Range safety brief Who: Pit NCO	L

	4, SUBTASK/SUBSTEP OF MISSION/TASK	6. HAZARD	6, INITIÁL RISK LEVEL	THE RESERVED FOR THE PARTY CANADA	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
নাক্ষরকার <u>বি</u>	Employ Hand Grenades	Heat		1. The training unit will monitor wet bulb for heat category. Previous heat injuries will be monitored through the buddy system, training company	Terrain Regulation 350-19 MCOE PM 385-6-1	
+	**	* 1		cadre, and instructors. Update daily risk assessment if unit road marches to training. 2. Heat categories will be enforced as follows: heat cat index, Temp., work/rest cycle and water	procedures for Firing Ammunition for Training, Target Practice, and Combat 3-16 CAV SQN policies on range operation Range safety brief to	
17	s)			consumption per hour for easy, moderate, or hard work. 1: 78-81.9 NL-1/2 NL-3/4, 40/20-3/4 2: 82-84.9 NL-1/2 50/10-3/4, 30/30-1	leaders TRADOC Reg 350-29 Who: NCOIC; RSO, Training Unit Cadre	
				3: 85-87.9 NL-3/4 40/20-3/4, 30/30-1 4: 88-89.9 NL-3/4 30/30-3/4, 20/40-1 5: >90 50/10-1, 20/40-1 10/50-1		
			н	EASY WORK 1. Weapon maintenance 2. Walking hard surface at 2.5 mph, 30 lb load 3. Manual of arms 4. Marksmanship training	la Kl	M
				MODERATE WORK 1. Walking loose sand at 2.5 mph, no load 2. Walking hard surface at 3.5 mph, less than 40 ib load 3. Calisthenics		
50 ZE	22			4. Patrolling 5. Individual movement techniques, i.e. low crawl, high crawl 6. Defensive position construction 7. Field assaults		1
		=		HARD WORK 1. Walking hard surface at 3.5 mph, more than 40 lb load. 2. Walking loose sand at 2.5 mph with load. 3. Daily water intake		
	8			should not exceed 12 qts. 4. Evacuate heat casualties in accordance with serious incident guidelines/post requirements. 5. Identify previous heat		
DD FO	RM 2977, SEP 2014			injuries. 6. Monitor eating of meals and record water consumption with eard or cord system.		Page 4 of

	4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT! WHO WILL IMPLEMENT	9. RESIDŮAL RISK LEVEL
<u> </u>	Employ Hand Grenades	Cold		All Soldiers with previous cold injuries will be identified and	How: MCOE Range and Terrain Regulation	
			2.5	closely monitored	350-19	
				through marking, the	MCOE PM 385-6-1	`
	13	· · ·		buddy system, company cadre, and instructors.	AR 385-63, policies and procedures for Firing	1
70			1	2. Immersion foot: cause:	Ammunition for Training,	
	192			prolonged immersion in	Target Practice, and	
* * * * * * * * * * * * * * * * * * *	22			cold water, usually in	Combat	
				excess of 12 hours at temperatures below 50	3-16 CAV SQN policies	ĺ
			1	degrees Fahrenheit.	on range operation Range safety brief to	
	Mari			3, Trench foot: cause:	leaders	1 1
			100	exposure to wetness and	TRADOC Reg 350-29	
60				cold between and up to	Who:	
				50 degrees Fahrenheit, lasting hours to several	NCOIC; RSO, Training	[10]
	}	-		days.	Unit Cadre	
1	100		1	4. Frost bite: cause:		
				exposure to cold at	50	
				temperatures of freezing	***	10
-	00			or below, for minutes to several hours.		
		1	}	5. Hypothermia: cause:]	M M
		30	Н	heat loss exceeding	['''
	8			body's heat production		{
				resulting in body temperature of 95 degrees		1 1
				Fahrenheit or lower.	<u>'</u>	
				6. First aid measures:	23	ł
		.55		remove wet clothing, rest		
			İ	affected part and re-warm	ı	1
			10	it promptly to room temperature (except in		<u> </u>
			ļ	the case of frostbite,		
1				when thawing should	. =	1
		(9)	1	only be attempted by		
	#1			medical personnel) treat injuries and evacuate		1
				immediately.	120	
184				7. Ensure all soldiers		
	17 24			have proper cold weather		
7.	570			clothing.	\$**	
	X.	90		8. Monitor wind chill factor:	75	
				CAT I: +32 to +1 F		
	1/2			CAT II: 0 to -5 F		
				CAT III: -6 to -10 F	10 12	
	- 83		1	CAT IV: Below - 10 F		

	4. SUBTASK/SUBSTEP OF MISSION/TASK	6. HAZARD	6. INITIAL RISK LEVEL	Charles and Control of the Party of the Control	8. HOW TO IMPLEMENT! WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVE
H-17-11	Employ Hand Grenades	Range/General	70	The range Non-	How:	
		Situational Awareness		Commissioned officer In	MCOE Range and	50
		(cont.)	77	Charge (NCOIC) and	Terrain Regulation	
				Range Safety Officer	350-19	
		<u>}</u>	18.31	(RSO) will:	MCOE PM 385-6-1,	
	70			1. Read and review the	AR 385-63, policies and	
_				Risk Management	procedures for Firing Ammunition for Training,	
4		13	2.5	Worksheet. 2. Ensure Medics and a		
. A		-		dedicated evacuation	Target Practice, and Combat	
121				vehicle are available.	3-16 CAV SQN policies	
		1	-	3. Consult with training	on range operation	
				company cadre to	Range safety brief to	
	1			identify problem Soldiers	leaders	1
				(suicidal or homicidal	MCOE Reg 40-14, Safety	
	0			intent or gestures, or	Brief to Soldiers	
	:			demonstrating serious	Who:	
		14		emotional problems) and	NCOIC; RSO	
	1			individually supervise	1,0010,100	
	50		1	high risk Soldiers.	-	
				4. Identify soldiers with	1	
				medical problems having		1
	97.		-	the potential to impact	(*)	
				training to include minor	1	8
	}		1	illnesses, allergies,		
		1.0	1	previous heat and/or cold		92
			-	weather injuries, or		
				environmental		
			1	sensitivities.	3)	1
99		1		5. Review evacuation		M
			Н	procedures and reporting		747
			1	procedures for serious		
				incidents. Plan to		
				evacuate Soldiers with		
	25		1	allergic reactions, anyone		1
				within 25 meters of a	*1*	
			}	lightning strike, cold weather/heat injuries,	03	
			1	snakebite, or anyone		
			214	showing symptoms	1	1
	327		1	beyond the range		
	100			NCOIC's experience and		
				the medic's ability to		
			1	treat. The NCOIC/RSO	*	1
	5*	*	-	will direct an air	32	
				MEDEVAC when the	-	
				danger of loss of life,		
		00		limb, or eyesight exists.		
22	16			6. Ascertain what type of		1
		2		training the unit has done		
		1	_ %	for the previous day and		
				that morning, to ensure		
			=	that it will not impact		1
		195		Soldiers ability to		1
		1		properly throw Hand		-
				Grenades.		1
			27	7. Conduct daily risk		0.694
				assessment in	×+	
				consultation with trainin	B	
		131		company cadre		
	1			representatives.		

Accessed 16 to Sec.	4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARD	6. İNITIAL RISK LEVEL	7, CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
+	Employ Hand Grenades	Eye/Hearing Loss	Н	NCOIC or RSO will: 1. Brief Soldiers on the dangers of grenades for hearing and eyesight loss. 2. Ensure Soldiers are wearing eye and ear protection during range operation. 3. Ensure extra earplugs are available. 4. Instructor will: ensure that all personnel are wearing hearing protection during live bay, to include cadre. Medics will: A) Ensure that the aid bag is present and has all required equipment. B) Request and replenish any deficiencies prior to	How: MCOE Range and Terrain Regulation 350-19 MCOE PM 385-6-1 AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 3-16 CAV SQN policies on range operation Range safety brief to leaders AR 40-501 Who: NCOIC, RSO, and Live Bay NCO	M
	Employ Hand Grenades	Soldier Bitten/Stung by Snakes or Insects	М	the start of training. Range NCOIC or RSO will: 1. Inform the Soldiers of the various types of wildlife that are hazardous and warn them not to handle or harass wildlife during training. 2. Ensure personnel with medical problems such as allergies to insect bites are identified and marked 3. Ensure sting (anaphylactic) kit is in CLS bag.	3-16 CAV SQN policies	L

1	4. SUBTÄSK/SUBSTEP OF MISSION/TASK	6. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL 9. RESIDUAL
	Employ Hand Grenades	Soldier Struck by Lightning	M	Range NCOIC or RSO will: Range NCOIC or RSO will: 1. Monitor radio net at all times for severe weather/ lightning advisory warnings. 2. Suspend all training during electrical storms. 3. Notify range control, battalion headquarters (HQ), and company HQ of any incident. 4. Cadre will control the students. 5. Brief students on electrical storm plan and point out location to ground gear and the designated lightning protection area to move to in the event of lightning. 6. Inform training unit cadre to implement the severe weather plan. 7. Ensure students ground their individual equipment and don their wet-weather gear. 8. Ensure all students are spread 5-10 meters apart in an open area or in the designated lightning protection area until the storm clears or the	AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 3-16 CAV SQN policies on range operation Range safety brief to leaders TRADOC Reg 350-6 TRADOC Reg 385-2 Who: NCOIC, RSO	L
+	Employ Hand Grenades	Minor Body Injury (Cuts or Falls)	M	training unit departs. Range NCOIC or RSO will: 1. Give safety briefing alerting Soldiers to tripping hazards: rocks, roots, branches, fallen trees, and creek beds. 2. Instructors will monitor Soldier movement and alert Soldiers to possible hazards.	How: MCOE Range and Terrain Regulation 350-19 MCOE PM 385-6-1 AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 3-16 CAV SQN policies on range operation Range safety brief to leaders Who: NCOIC; RSO	L

5 761	4. BUBTASK/SUBSTEP OF MISSION/TASK	6. HAZARD	6. INITIAL RISK LEVEL	7, CONTROL	8. HOW TO IMPLEMENT! WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
1	Employ Hand Grenades	Demonstration of an M14 Incendiary Grenade Could Burn Retina in Eyes	М	Range NCOIC or RSO will: Brief Soldiers that they will not look directly at the grenade during demonstration. Instructors and training unit cadre will: Monitor Soldiers to ensure they do not look at the grenade.	How: MCOE Range and Terrain Regulation 350-19 MCOE PM 385-6-1 AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 3-16 CAV SQN policies on range operation Range safety brief Who: NCOIC; RSO, Cadre	L W
	*	8			W.	
+	Employ Hand Grenades	Soldier Misses the Bunker while Using the Cook-Off Technique: Fuse Residue from Practice Fuse Could hit the Soldier.	М	Training Unit Cadre will: 1. Monitor Soldiers to ensure they do not look at the grenade. 2. Teach and demonstrate cook-off techniques to the Soldiers. 3. Ensure the cook-off is only used with practice fuses. 4. Ensure practice and live grenades are separated (separate drop and storage area 5. Ensure Soldiers turn and face the rear of the bunker to keep fragments from hitting them in the face.	350-19 MCOE PM 385-6-1 AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 3-16 CAV SQN policies on range operation Range safety brief Who: NCOIC; RSO, Cadre	L
+	Employ Hand Grenades	Burning/cutting Hands on Expended Practice Grenades	М	Range NCOIC or RSO will: 1. Brief all instructors on the safety procedures to be followed on the Hand Grenade Qualification Course (HGQC). 2. Ensure Soldiers on detail are wearing eye protection and leather gloves while retrieving grenades. 3. Ensure Soldiers on detail are not retrieving grenades unless instructed by the cadre.	How: MCOE Range and Terrain Regulation 350-19 MCOE PM 385-6-1 AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 3-16 CAV SQN policies on range operation Range safety brief Who: NCOIC; RSO, Cadre	L

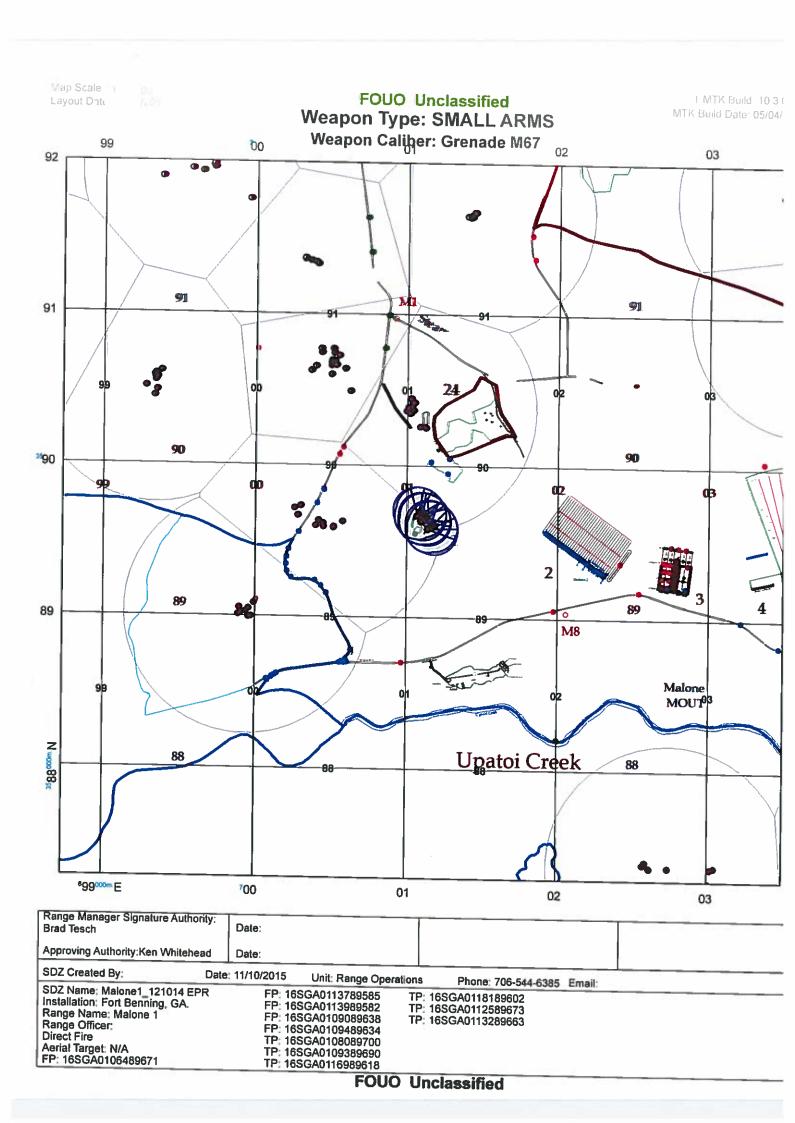
	4. ŠUBTASK/SUBSTEP OF MISSION/TASK	6. HAZARD	6. INITIAL RĮŠK LĘVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUAL RISK LEVEL
+	Employ Hand Grenades	Ammunition & Pyrotechnics	M	Ammunition NCO will ensure: 1. Soldiers involved in fusing/refusing practice grenades understand not to touch the biasting cap due to static electricity. 2. Soldiers use leather gloves when handling expended practice grenades. 3. Two 10 lb. serviceable ABC fire extinguishers are on site. 4. Soldiers wear eye protection.	How: MCOE Range and Terrain Regulation 350-19 MCOE PM 385-6-1 AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 3-16 CAV SQN policies on range operation Range safety brief to leaders Who: Ammunition Point NCO	L
# 	Employ Hand Grenades	Soldiers Hit by Thrown Practice Grenades	M	Range NCOIC or RSO will: Warn Soldiers to watch for other Soldiers in their path before throwing and actions to take if in the path of a thrown grenade. Instructors will: 1. Allow enough distance between qualifying Soldiers to ensure overthrown practice grenades will not hit other Soldiers. 2. Ensure Soldiers wear ACH at all times while on or in the vicinity of the HGQC. 3. Ensure Soldiers not involved in the HGQC stay clear of the course. 4. Soldiers wear eye protection at all times.	How: MCOE Range and Terrain Regulation 350-19 MCOE PM 385-6-1 AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 3-16 CAV SQN policies on range operation Range safety brief to leaders Who: NCOIC; RSO, Cadre	L
+	Employ Hand Grenades	Lost Soldiers	М	1. Safety briefing will include measures to take if lost or separated. 2. A SITREP will be provided to the chain of command, SQDN, BDE, and Range Control. 3. Headcounts at each station. 4. A thorough search will be conducted for the lost Soldier in coordination with training unit cadre and all available manpower. 5. Gain 100% accountability of Soldiers and Cadre before continuing training.	How: MCOE Range and Terrain Regulation 350-19 MCOE PM 385-6-1 AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 3-16 CAV SQN policies on range operation Range safety brief to leaders Who: NCOIC; RSO	L L

	4. SUBTASK/SUBSTEP OF MISSION/TASK	6. HAZARD	6. INITIAL RISK LEVEL	7. CONTROL	8. HOW TO IMPLEMENT/ WHO WILL IMPLEMENT	9. RESIDUĀL RISK LEVEL					
######################################	Employ Hand Grenades	Soldiers unfamiliar with Hand Grenades/ Mandatory Training being conducted prior to Live Bay		1. Soldiers taught proper grip and throwing technique at distance and accuracy (D&A) training 2. At the mock bay, Soldiers are taught live bay procedures and rehearse the evacuation drills. 3. All Soldiers must	How: MCOE Range and Terrain Regulation 350-19 MCOE PM 385-6-1 AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat	VE 60					
*5	E 7		М	successfully complete D&A and mock bay training prior to entering the live bay. 4. Training Company Commander, First Sergeant, or Company XO will be on site from start of training D&A, mock bay, and throwing of live grenades. 5. Pit NCOs will be SSGs	3-16 CAV SQN policies on range operation Range safety brief Who: NCOIC; RSO; Range Cadre; Training Company CDR; XO; 1SG, Troop Commander	e L					
			⊗ .7	certified by range NCOIC and Troop Commander. 6. No concurrent training other than throwing hand grenades will take place from the start of D&A through the completion of live bay to ensure Soldiers have their minds only on properly employing hand grenades. 7. All Soldiers will move as one unit directly from mock bay to live bay.	9	#.					
10. OVEF	RALL RESIDUAL RISK LEV	/EL (All controls implemente	ed):	1982	79						
	EXTREMELY HIGH	⊠ HIGH	☐ MEDIUM ☐ LOW								
All coordination and inquiries should be made directly with the A Troop, 3-16 CAV CP, at 706-626-6609 or with the Committee Team Chief listed above. Specific Course of Action, implementation, and execution for this activity is published within the SOP and/or Training Scenario. Concur: JAMES E. HAYES Concur: WILLIAM L. THIGPEN LTC, AR Commanding Commanding											
12. APPF	ROVAL OR DISAPPROVAL	OF MISSION OR TASK	[] Ар	· <u>- :</u>	prove						
2	(Last, First, Middle Initial) , JAMES E.	b. Rank/Grade BG/0-7		Title/Position d. S	ignature of Approval Auth	ority					
o. Additio	onal Guldance:	3		6.	U M	e.					

Risk Assess Severity (expected consequence) Catastrophic: Mission failure, unideath, unacceptable loss or dama. Critical: Significantly degraded uncapability; severe injury, litness, los Moderate: Somewhat degraded ucapability; minor injury, litness, los Negligible: Little or no impact to ucapability; minimal injury, loss, or did Legend: EH - Extremely High 3. RISK ASSESSMENT REVIEW a. Dato b. L	il readiness eliminated; ge nit readiness or mission ss or damage mit readiness or mission s, or damage unit readiness or mission temage	ment ap	Frequent: Continuous, regular, or inevitable occurrences A EH EH M Medium Risk spiles to ongoing ank/Grado			Seldom: Infrequent occurrences D If M L L e. Signature	Unlikely: Possible occurrences but improbab E M L L
Catastrophic: Mission failure, unideath, unacceptable loss or dama. Critical: Significantly degraded uncapability; severe injury, iliness, los Moderate: Somewhat degraded uncapability; minor injury, iliness, los Negligible: Little or no impact to unapability; minimal injury, loss, or d Legend: EH - Extremely High 3. RISK ASSESSMENT REVIEW a. Dato b. L	it readiness eliminated; ge nit readiness or mission ss or damage init readiness or mission s, or damage init readiness or mission lamage Risk H - High Risk (Required when assessing	III IV M - I	EH H M Medium Risk	H H L L-Low Risk operations or ac	H H L	li M	L L
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Legend: EH - Extremely High 3. RISK ASSESSMENT REVIEW a. Dato b. L.	lemege Risk H – High Risk (Required when assessa	M - l	Medium Risk	L - Low Risk	tivities)		
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Map sector 128 000 Layour trial 178 10/2015

FOUO Unclassified Weapon Type: SMALL ARMS

RMTK Build Date (65%)

