

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: 09 August 2013 Range: Dianda Title: Hand Grenades Problem No:
THRU: 3rd Squadron, 16th Cavalry Regiment 316th Cavalry Brigade 10298 316th Cavalry RD, BLDG 5143 Fort Benning, GA 31905	FROM: A Trp, 3-16 Cavalry 316th Cavalry Brigade BLDG 5210, 69th Armored Regiment Rd. Fort Benning, GA 31905

Log# 9-2-13

SECTION I, TYPE OF TRAINING

a. Live Fire
 b. Non-live Fire
 CP/Controller Coordinates: FA 969 826

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

Coordinates	Type	Model/DODAC	Size of Charges
SEE WEAPON AND AMMO ENCLOSURE	SEE WEAPON AND AMMO ENCLOSURE	SEE WEAPON AND AMMO ENCLOSURE	N/A

SECTION III, WEAPONS/AMMUNITION REQUESTED

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
SEE WEAPON AND AMMO ENCLOSURE	SEE WEAPON AND AMMO ENCLOSURE	SEE WEAPON AND AMMO ENCLOSURE	SEE ENCLOSURE	SEE ENCLOSURE

SECTION IV, LIVE FIRE EXERCISES Attach the following:

SECTION V, NON-LIVE FIRE TRAINING

<input checked="" type="checkbox"/> Scenario of training to be conducted: <input checked="" type="checkbox"/> Sketch of area: <input checked="" type="checkbox"/> Risk Assessment: <input type="checkbox"/> Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:	Training area(s) to be occupied: <input type="checkbox"/> Scenario of training to be conducted: <input type="checkbox"/> Sketch of area(s) to be occupied: <input type="checkbox"/> Risk Assessment:
Name/rank of requesting officer: Terrance A. Zamora, SFC 	Name/rank of Major Unit S3/Commander: James E. Hayes, LTC, AR, Commanding

SECTION VI, FOR RANGE DIVISION USE

DATE: 12 SEP 13

TO: A Trp, 3-16 Cavalry 316th Cavalry Brigade BLDG 5210, 69th Armored Regiment Rd. Fort Benning, GA 31905	FROM: Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905
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a. Roadblocks to be closed: b. Road(s) to be closed/road barrier locations: c. Remarks: d. This approval expires: 11 SEP 15	[Empty space for roadblocks, remarks, and expiration date]
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Chief, Range Division
Directorate of Plans, Training, Mobilization and Security

Dianda Range, 3-81, 194 AR BDE Hand Grenade (Log #9-2-13) Weapons/Ammo List Enclosure

SECTION II, DEMOLITIONS/GRENADES/PYROTECHNICS

Coordinates	Type	Model/DODAC	Size of Charges
Mock Bay Demonstration Area FA 9714 8280	Grenade, Smoke (G, Y, R, V), Practice Grenade, Incendiary TH3 AN	M18 (G: 940/945/950/955), M83 (G982) M14 (G900)	N/A
Hand Grenade Qualification Course FA 9741 8277	Practice Hand Grenade	M69 (G11)	N/A
Live Grenade Bays, Pit 1 to Pit 4 FA 9697 8265 to FA 9691 8268	Grenade, Fragmentation	M67 (G881)	N/A

SECTION III, WEAPONS/AMMUNITION REQUESTED

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit Deg's Grid Azimuth	Right Limit Deg's Grid Azimuth
Live Grenade Bays, Pit 1 to Pit 4 FA 9697 8265 to FA 9691 8268	Grenade M67	Fragmentation	158	248
Hand Grenade Qualification Course FA 97418277	Practice Hand Grenade (G811), Fuze Hand Grenade Practice	M69 (G811), Fuze (M228)	N/A	N/A
Mock Bay Demonstration Area FA 9714 8280	Grenade, Smoke (G,Y,R,V), Practice Grenade	M18 (G940/945/950/955), M83 (G982)	N/A	N/A

COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK Hand Grenade Live Bay - Dianda HG Range		2a. DTG BEGIN 192359AUG13	2b. DTG END 200000AUG14	3. DATE PREPARED (YYYYMMDD) 20130807			
4. PREPARED BY Flynn		b. RANK SFC	c. POSITION Dianda Hand Grenade Range OIC				
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?
Employ Hand Grenades	1. Range/General Situational Awareness	H	1a) Range OIC will brief all training unit cadre and leadership on the range CRM, SOP, and training scenario. 1b) OIC will consult with training unit leadership to identify problemed Soldiers (suicidal/homicidal, behavioral health, hot/cold injuries, allergies, medically limited) 1c) Range OIC will brief all training unit cadre on MEDEVAC procedures and responsibilities 1d) Range OIC will prepare the daily risk assessment and brief all training unit cadre on results of the assessment and any safety concerns not covered in the CRM	M	IAW - AR 385-63, DA Pamphlet 385-63, TRADOC 385-2, MCoE Reg 350-19, Dianda Range SOP, Dianda Training Scenario, Dianda Range Safety Brief	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
	2. Cold Injury	M	Wet Bulb on site, CLS w/aid bag. NCOIC alters uniform and training tempo to meet temperature guidelines; ensure warning building is available. Range cadre and Drill Sergeants monitor all Soldiers. NCOIC enforces rest and warning phases w/RSO and training Unit.	L	IAW - GTA 5-12-8, 194th AR hot/cold weather injury smart card, Unit SOP, BDE policy AR 350-10, AR 350-6	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	

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 COL Hemmeling, John C.	b. RANK	c. DUTY POSITION Commandant USAARMS	d. SIGNATURE
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ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Employ Hand Grenades	3. Heat Injury	H	Wet bulb on site, CLS w/aide bag. Ice sheels and bulk water source. Training unit leadership alters uniform and training tempo to within temperature guidelines. Buddy teams monitor each other, Range cadre and Drill Sergeants monitor all Soldiers. NCOIC enforces rest and cool down phases w/RSO and training Unit.	M	IAW - GTA 5-12-8, 194th AR hot/cold weather injury smart card, Unit SOP, BDE policy AR 350-10, AR 350-6	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
	4. Operating under limited visibility	H	When there is limited visibility, OIC makes the appropriate assessment, Lane Safeties also make an assessment within their lane during live fire. Bay NCOs are in direct contact w/ RSO and NCOIC to make safety calls, NCOIC and RSO continuously monitor visibility to ensure safe range conduct	M	IAW - Range POI, HGI TSP, and FM 23-30 MCOE Reg 350-19, DA PAM 385-30, AR 385-10, AR 385-63	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
	5. UXO	M	Soldiers receive UXO briefing during the class portion. Lane safeties monitor lanes during execution. Maintain contact w/ range control via FM. OIC clears the range prior to training	L	SOP, MCOE Reg 350-19, AR 385-10, DA PAM 385-63	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
	6. Wildlife on the Range	M	SMS will not approach wildlife and will notify Cadre members if they observe animals down range. NCOIC or OIC will call cease fire until range is clear	L	SOP, MCOE Reg 350-19, AR 385-10, DA PAM 385-30	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
	7. Trip Hazards	M	Site is cleared of debris. Equipment check is conducted to ensure all equipment is secured and eye pro does not fog.	L	SOP, AR 385-10, DA PAM 385-30	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
	8. Hearing Loss	M	Lane Safeties ensure Soldiers are in proper uniform, OIC and RSO ensure all cadre are in the proper uniform. Soldiers wear hearing protection during execution.	L	BDE Policy, Range SOP and FM 385-63, AR 385-10, DA PAM 385-30	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
	9. Eye Injuries	M	Lane Safeties ensure Soldiers are in proper uniform. OIC and RSO ensure all cadre are in the proper uniform. Soldiers wear eye protection during execution. Prescription glasses will not provide adequate wrap around protection and will not be worn in lieu of proper ballistic eye protection.	L	SOP, AR 385-10, DA PAM 385-30	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	

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?
Employ Hand Grenades	10. Ammunition accountability	M	When ammunition arrives, the unit Ammo NCO will account for all grenades and fuses by LOT # at start and finish of training. All LOTS will be stored separately. All classes of ammunition will be stored at the appropriate location on Dianda Range (ie, live ammo pad and pyro ammo pad)	L	Range POI, FM 23-30 and AR 385-3, AR 385-10, DA PAM 385-30	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
	11. Fratricide	H	Soldiers receive instruction about proper throwing techniques, kill radius and must exhibit proper gripping procedures, throwing techniques and throwing positions at the Mock Bay and be able to throw over and past the 15 meter line located to the front of the mock bay. Bay NCOs will be certified on safety measures before running one of the live bays.	M	MCoE 350-19, pg 2-18, Range SOP, FM 23-30 and AR 385-63	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
			Live Bay NCOs will give specific step by step instructions to each Soldier who prepares to throw and observe and enforce for correct performance measures. Soldiers that are unable to throw the proper distance or violate any of the 8 safety violations after retraining (Double NO-GO) will not be allowed to throw a live hand grenade and can be rescheduled.				
	12. Severe Weather	M	Training Unit is responsible for Soldiers equipment requirements to meet the weather. Training unit emplaces and puts into operation wet bulb and monitors it throughout the day.	L	MCoE 350-19, pg 2-18, Range SOP, FM 23-30 and AR 385-63	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
			Soldiers briefed on severe weather action plan. NCOIC ensures wet bulb is operational. OIC remains in constant contact w/ Range Control VIA FM for weather updates.				
	13. Mandatory training prior to Live Bay	M	13a) Soldiers are taught proper grip and throwing techniques during classroom portion of training. Distance and Accuracy(DNA) is reinforced during Mock Bay. 13b) All Soldiers must successfully complete DNA and Mock Bay prior to entering the live bay.	L	Range POI, HG1 TSP and FM 23-30 MCoE Reg 350-19, DA PAM 385-30, AR 385-10, AR 385-63	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	

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?
Employ Hand Grenades			13c) Soldiers and training units will not be allowed to conduct any other training until live bay is complete in order to ensure techniques taught during mock bay are utilized by the Soldiers during live bay.				
			13d) The training unit will ensure that one of the TOP3 are in the tower during all live bay procedures				
			13e) Pit NCOs will be SSGs certified by the range OIC and Company Commander.				
	14. Range Specific Hazard	E	Pit NCOs will maintain direct control over Soldiers in the pit and maintain positive visual observation and control of the live grenades the entire time. The following actions will be rehearsed prior to the conduct of Live Bay:	H	MCoE 350-19, Range SOP, AR 385-63, and FM 23-30	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
	14a) Armed Hand Grenade dropped in the pit	E	Pit NCO will assist Soldier over the back wall while announcing "Grenade, Grenade, Grenade!" The Pit NCO will then cover the Soldier with himself to maintain control.	H			
	14b) Armed Hand Grenade over back wall of pit	E	Pit NCO will assist Soldier to the prone against the back wall announcing "Grenade, Grenade, Grenade!" The Pit NCO will then cover the Soldier with himself to maintain control.	H			
	14c) Soldier watches grenade after thrown	H	Pit NCO physically forces Soldier down behind the front wall of the pit	M			
	14d) Soldier freezes after arming grenade	E	Pit NCO walks Soldier to the front of the pit and forces Soldier to release the grenade and assists him down behind the front wall of the pit	H			

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?
Employ Hand Grenades	14e) Soldier "Milks" or cooks off the grenade	E	Pit NCO will give the command of "Throw" to the Soldier. If Soldier does not throw the grenade, the Pit NCO will assist the Soldier in dropping the grenade over the front wall of the pit. The pit NCO will then assist the Soldier in getting down behind the front wall of the pit. Pit NCOs will maintain a hand over the Soldiers during all live grenade throws to ensure the	H			
			Soldiers do not "Milk" the grenade and to maintain positive control over the armed grenades.				
			Soldiers learn the proper grip, throwing techniques, and muscle memory during DNA and Mock Bay. By conducting the HGQC prior to Live Bay, Soldiers are more prone to cooking off the grenade. The HGQC will cause undo fatigue on the Soldiers upper body as well as cumulative heat and stress that can cause safety concerns during Live Bay				
15. Hand Grenade Qualification Course (HGQC) conducted after Live Bay only		M		L	Range SOP, Training Scenario	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
			OIC and RSO will ensure the following: a)Soldiers are taught proper methods for arming grenades during instruction, practical exercise, and mock bay b)For grenades with the confidence clip, emphasis is given to the additional steps c)Pit NCO observes every step of the arming procedure. d)Once a DUD is recognized, Range will wait 5 minutes and then the Pit NCO will escort the Soldier to behind the blast wall e) Range OIC will notify Range Control of the				
			DUD and verify EOD contact has been made. DLanes will remain open if direct routes in and out of the lanes remain clear of the lane with the DUD.				
17. Fire Hazard		M		L	MCoE 350-19, pg 2-18, Range SOP, FM 23-30 and AR 385-63	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
			OIC and RSO will ensure: No smoking within 60 feet of any ammunition point and two 10 lbs fire extinguisher are at each ammunition point.				

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?
Employ Hand Grenades	18. Control of range from Range Tower	H	The OIC will observe Soldiers from the Range Tower. Soldiers will only use Live Bay pits 1-4. The OIC will have full visibility of all Soldiers and detonation of hand grenades that are thrown. OIC will use the tower PA system to communicate with Pit NCO's and Range Personnel	M	AR 385-63, DA Pamphlet 385-63, TRADOC 385-2, MCoE Reg 350-19	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
	19. M67 fragmentation grenade employment	E	Pit NCOs memorize and enforce the standards: Mock and live bay procedures IAW Range SOP, UXO procedures AR 350-6 Bay NCOs control each Soldier during throw. Pit NCO takes visual and verbal commands from OIC in Tower. Pit NCO immediately notifies OIC/RSO of any hazards. Call cease fire until resolved.	H	Range POI, HGI TSP and FM 23-30 MCoE Reg 350-19, DA PAM 385-30, AR 385-10, AR 385-63	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
	20. (Alternate) Control of range from behind supplemental blast wall	H	The OIC will observe Soldiers from behind the supplemental blast wall. Soldiers will only use Live Bay pits 1-3 so the OIC will have full visibility of all Soldiers and detonation of hand grenades that are thrown. OIC will use a portable Mega-Phone to communicate with Bay NCO's and Range Personnel.	M	AR 385-63, DA Pamphlet 385-63, TRADOC 385-2, MCoE Reg 350-19	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
	21. Improper handling of Grenades with Confidence Clip attachment	H	OIC and RSO ensure: a) Soldiers are taught the proper method for arming a hand grenade with confidence clip attached. The pull ring must be rotated 1/4-1/2 turn in a clockwise direction to separate from the confidence clip. The method for arming all hand grenades will be taught the same way, regardless of whether a confidence clip is attached, due to the fact that Soldiers could receive practice fuses with confidence clips and live grenades without them, or vice versa.	M	Range POI, HGI TSP, Range SOP	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers	
	21a) Right hand throwers	H	Right hand throwers will rotate the pull ring 1/4-1/2 turn clockwise (towards body) to release the ring from the confidence clip and then pull to separate the pin from the grenade.	M			

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?
Employ Hand Grenades	21b) Left handed throwers	H	Because left handed throwers hold the grenade inverted, they will rotate the pull ring 1/4-1/2 turn clockwise (away from body) to release the ring from the confidence clip and then pull to separate the pin from the grenade.	M			
	21c) Inspection	M	Soldiers are taught to inspect the hand grenade before use to ensure the overlapping portion of the pull ring is not positioned in the confidence clip which could result in binding	L			
	21d) Proper rotation	H	Soldiers are warned that rotating a pull ring in a counter-clockwise direction could result in binding and a distortion of the pull ring and could possibly result in a premature detonation, finger laceration, or damage the grenade body.	M			
	21e) Over rotation	M	Soldiers are warned to not rotate the pull ring too far or the pin legs could break and the pull ring could wedge between the fuse head and the high point of the confidence clip	L			
	22. Civilians	H	Civilians may view training on Dianda but will be required to have the following: a) Exception to policy b) Waiver of liability c) All PPE as prescribed for range use	M	MCOE regulations and policies, SOP, Safety Brief	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers, Civilians	
			Civilians and VIPs will be briefed upon arrival by the range OIC/RSO and will follow the guidance of the OIC during their time on Dianda Hand Grenade Range.				
Grenades - Other than Fragmentation	23. MK3A2 Improved Concussion Grenade Hearing	E	Soldiers and Pit NCOs will wear dual hearing protection while in the pit. All other Soldiers and personnel will wear single hearing protection at all times during live bay.	H	DNNE CONOP, DOTC-09-01-INIT369, Safety Addendum dated 22JUL13, FM 22-30	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers, Civilians	

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?
Grenades - Other than Fragmentation	Explosion Debris and projectiles	H	Although the MK3A2 is not a fragmentation style grenade, it may cause debris and projectiles in the form of rocks, fuse head, etc. Only 2 lanes will be used for employment of these grenades, either lanes 1 and 3 or lanes 2 and 4 in order to increase standoff from these hazards.	M	DNNE CONOP, DOTC-09-01-INIT369, Safety Addendum dated 22JUL13, FM 22-30	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers, Civilians	
	24. Incendiary	H	Precautions will be taken to ensure all Soldiers do not look directly at the grenade as it burns. Grenades will only be employed in approved burn pits.	M	Range POI, HG1 TSP and FM 23-30 MCoE Reg 350 -19, DA PAM 385-30, AR 385-10, AR 385-63	Dianda Range OIC, RSO, Dianda Range Cadre, Unit Leadership, Drill Sergeants, Individual Soldiers, Civilians	
	Damage to eyesight	H					
	Control of detonation	M	Grenades will only be employed by certified range personnel on command by OIC/RSO.	L			
	Burns	H	Grenades will only be employed by certified range personnel. Additional PPE will be worn in the form of all leather gloves and employed in approved burn pits.	M			



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

REPLY TO
ATTENTION OF
ATZB-SO

16 August 2011

MEMORANDUM FOR Commander, 194th Armor Brigade, Attn: SSG White, Fort Benning, GA
31905

SUBJECT: Dianda Grenade Range Safety Review

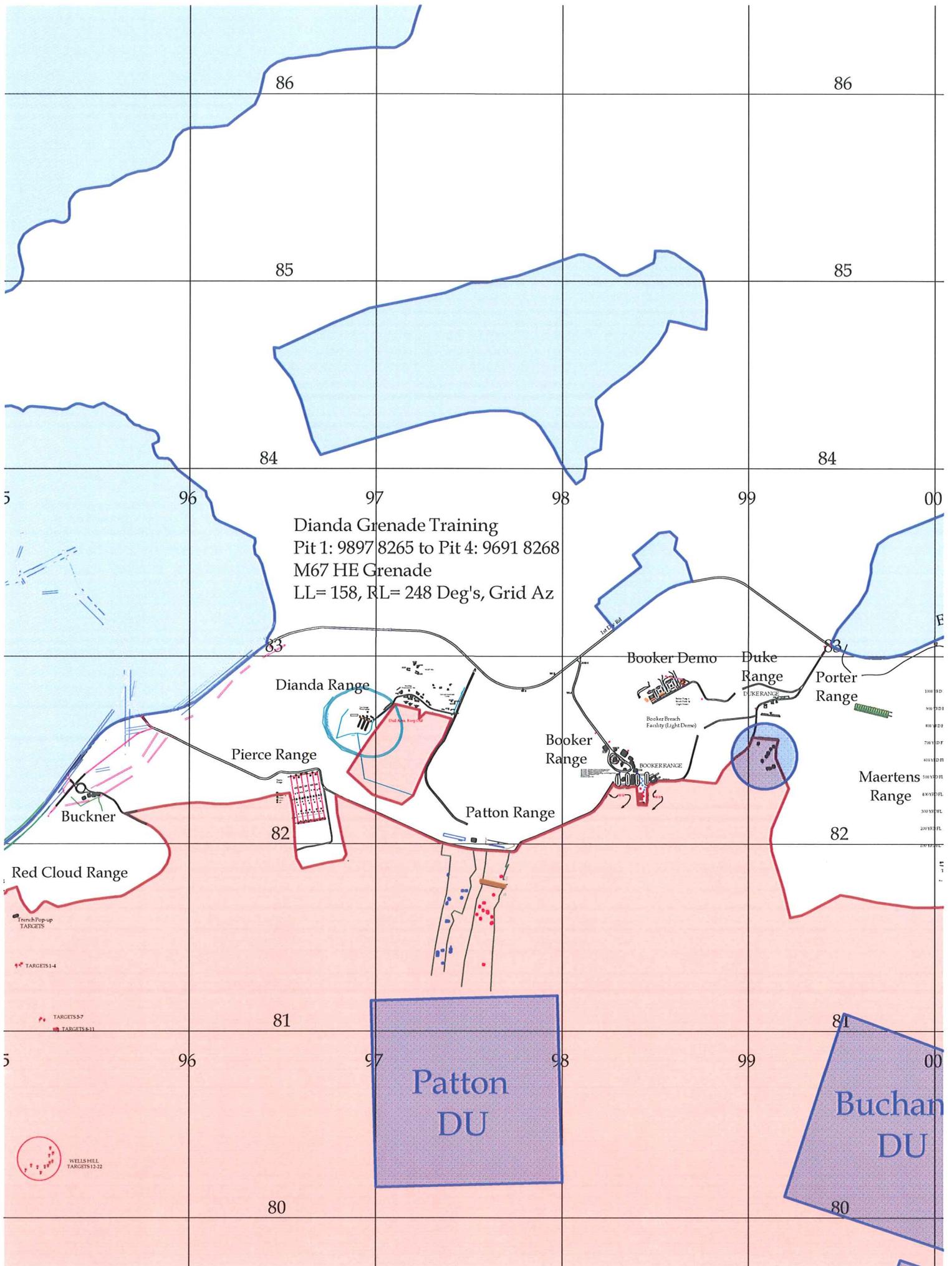
1. References.

- a. Dianda Grenade Range, dated 11 April 2011.
- b. Army Regulation 385-10, The Army Safety Program, 24 August 2007,
- c. Army Regulation 385-63, Range Safety, 19 May 2003
- d. Department of the Army Pamphlet 385-10, Army Safety Program, RAR 19 January 2010
- e. Department of the Army Pamphlet 385-30, Mishap Risk Management, RAR 01 February 2010
- f. Department of the Army Pamphlet 385-63, Range Safety, RAR 12 May 2009
- g. Field Manual 5-19, Composite Risk Management, August 2006

2. Concur.

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@conus.army.mil


JILL E. CARLSON
Director, MCOE/USAG Safety





RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



Date Submitted: 8/22/2012

EID Number: 1223507 Project#: Unknown Project Title: Hand Grenade range

Description of proposed action:

Training will include instruction on types of grenades, proper throwing techniques and will include a live hand grenade portion and Hand Grenade Qualification Course.

Project Location: Dianda Hand Grenade Range

Number of Personnel: 220

Type of Ammunition: HAND GRENADE; LIVE, PRACTICE, SMOKE Live and Blank Live & Blank

Number/Types of Trees: None

Size of Project Area: Duration of Action: Start: 10/1/2012 Stop: 9/30/2013

Proponent: terrance zamora Organization/Unit: B co 3-81

Number/Types of Vehicles: Number of vehicles: 3 Types of vehicles: HMMWV, LMTV No-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	None	Michael Barron (706 544 7080), 8/22/2012
Noise	Conditions:	Ellis Leader (706 545 2400), 8/22/2012

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 Leader at 706.545.2400 or email ellis.p.leader.civ@mail.mil or visit the Range Control Website for the updated version of MCoE Regulation 350-19



DEPARTMENT OF THE ARMY
HEADQUARTERS, 3rd BATTALION, 81ST ARMOR REGIMENT
7148 2ND CACALRY STREET
FORT BENNING GEORGIA 31905-6210

REPLY TO
ATTENTION OF

ATZK-BAG

19 March 2013

MEMORANDUM FOR DOT ATTN: Range Division, Fort Benning, GA 31905

SUBJECT: Dianda Hand Grenade Range Operations

1. REFERENCE:

- a. Army Regulation AR 385-63, Range Safety, 19 May 2003
- b. DA Pamphlet 385-63, Range Safety, 4 August 2009
- c. TRADOC Regulation 385-2, TRADOC Safety Program, 23 January 2009
- d. MCoE Range and Terrain Regulation 350-19, 23 July 2010

2. Requirement to be waived:

a. Dianda Range Observation Tower will continue to be used despite minimal damage to tower window.

3. Training to be conducted: US Weapons Hand Grenade:

- a. Mock bay
- b. Live bay
- c. Hand Grenade Qualification Course

4. Controlling factors:

- a. The OIC will observe Soldiers from the range tower.
- b. Range tower was inspected and deemed fit for use by a representative from MCoE Safety
- c. The OIC will have full visibility of the Soldiers and detonation of all hand grenades that are thrown.
- e. Unit will ensure that they fill and level the throwing bay target areas at the completion of every range day.

5. Supervision control measures: All cadre are responsible for the safe conduct of training on Dianda Hand Grenade Range. Below lists specific duties of range personnel not outlined in the MCoE Regulation 350-19, chapter 2.

a. Range OIC ensures occupying unit conducts a reconnaissance and coordinates with B Co, 3-81 AR prior to the execution of training.

ATZK-BAG

SUBJECT: Dianada Hand Grenade Range Operations

b. Range Ammo NCO- inspects ammo for correct type (M67 Live and M228 Practice), ensures live and practice grenades are stored separately, and directly supervises the loading of practice fuses into the grenade bodies.

c. Company Commander- ensures all instructors are certified to conduct appropriate training (Instruction, live bay, RSO, OIC)

d. Range Safety Officer- inspects all of the above and ensures no one moves to the live fire area once the scenario begins. Ensure Soldiers and cadre wear the required PPE when not in a designated safe area.

6. Risk Management factors were considered in the development of the Range Safety Waiver. The residual risk level is marked HIGH.

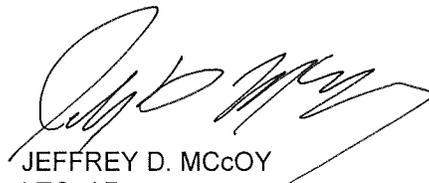
7. Under the provisions of the references and controlling factors above, these portions of the range requirements are waived.

8. This waiver is valid for the period of one year when used in conjunction with live fire range scenario and risk management worksheet. In the event of an accident arising from the use of the waived conditions, this waiver will be invalid until reinstated by this headquarters.

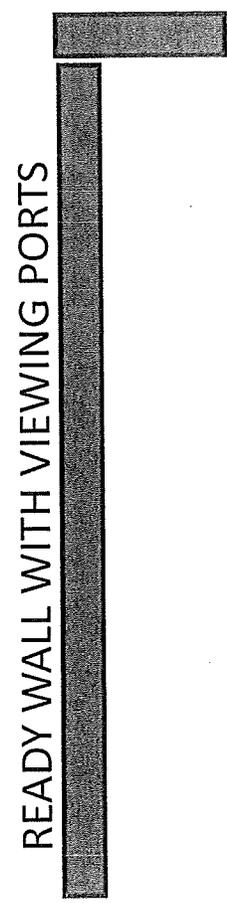
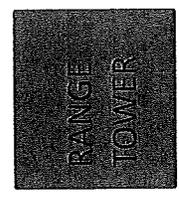
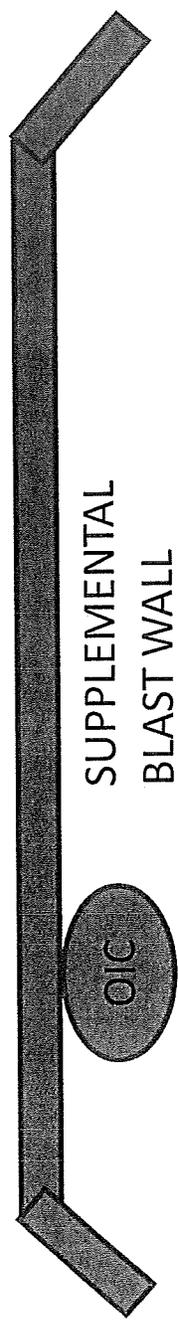
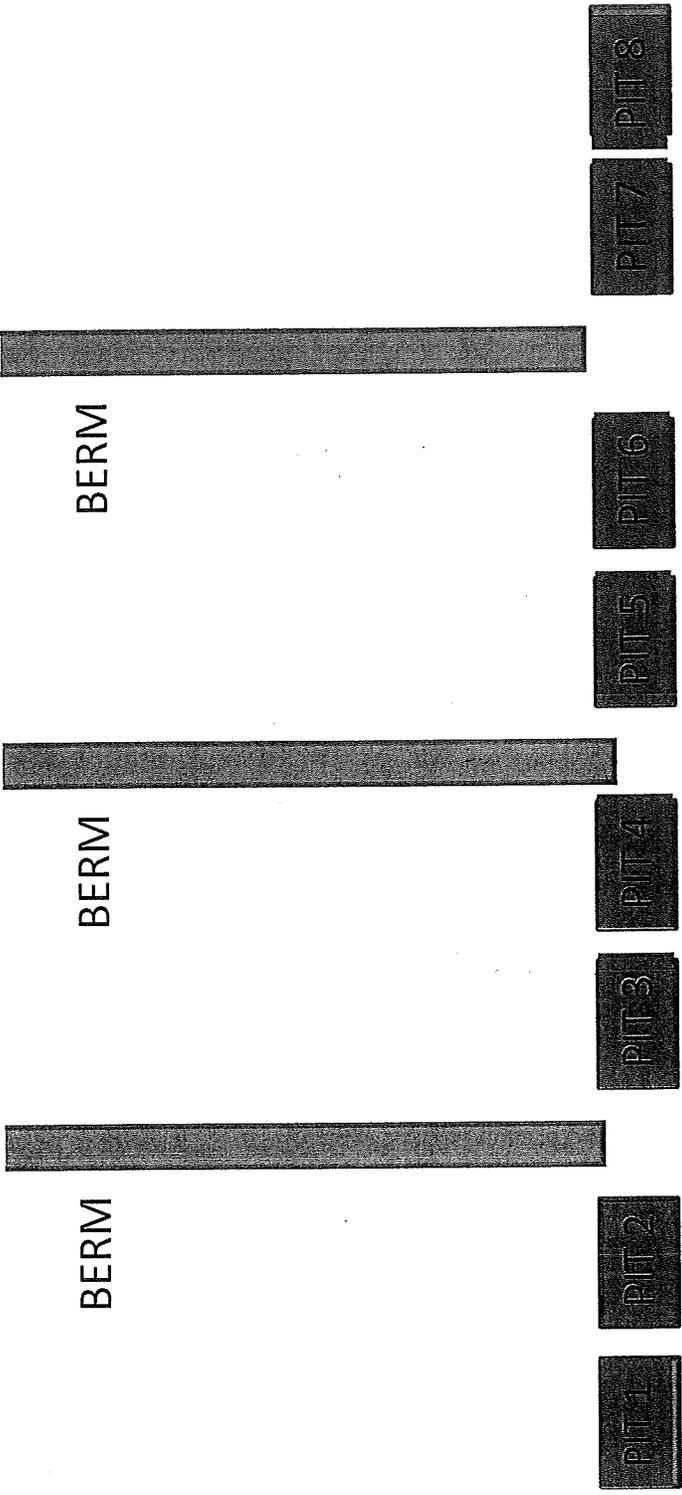
9. Enclosed attached:

a. Range diagram/layout.

10. Point of contact for this memorandum is MAJ Timothy M. Miller, Executive Officer, 3-81 AR at 706-626-5505



JEFFREY D. MCCOY
LTC, AR
Commanding





DEPARTMENT OF THE ARMY
HEADQUARTERS, 3RD BATTALION, 81ST ARMOR
194TH ARMOR BRIGADE
BLDG 4322 7148 2ND CAVALRY STREET
FORT BENNING, GEORGIA 31905

ATZK-BAG-S-3

11 April 2011

MEMORANDUM FOR Ft Benning, GA 31905

SUBJECT: 3-81 AR Training Scenario for Dianda Hand Grenade Range

MEMORANDUM FOR RECORD

SUBJECT: Dianda Scenario

1. Main Body

- A. Range is opened thru range control via radio communication.
- B. Using unit detail arrives prior to the 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 accounted for. Hot/Cold weather injuries are identified prior to arriving to the range.
- E. Trainees are given a Range Orientation/Safety brief.
- F. Trainees are given instruction and demonstration on the different types of grenades, including Smoke and incendiary.

Pre Live Ordnance Training

- A. All trainees receive training on the proper left/right hand grip, safe handling techniques, and how to properly store the hand grenades.
- B. All trainees are taught "Mock Bay" prior to throwing live grenades.
- C. Trainees must pass "Mock Bay" training prior to live ordnance training.

Live Ordnance Training

- A. Trainees will be given a period of instruction at the "Live Bay" on what is expected of them.
- B. Sequence of events:
 1. Trainee exits the viewing/ready room and is issued the live ordnance.
 2. Utilizing the correct hold, they proceed to their assigned Bay and Pit.
 3. Throwers must hold the grenade so that the Range Cadre can observe the grenade at all times.
 4. The Pit NCO Safety assumes control of the trainee.
- C. The tower will direct all activities on the firing line.

HGQC

- A. When directed, the trainees will move to the HGQC

- B. All weapons will remain consolidated at one location and will not be used on the Hand Grenade Qualification Course
- C. The trainees will then negotiate the Hand Grenade Qualification Course, which will be run by the Drill Sergeants.
- D. All troops, weapons, equipment, ammunition and dunnage will be accounted for.
- E. Trainees receive a brass and ammo check by their chain of command.

2. Ammunition

- A. Live ammunition is stored and guarded at the Live Bay area and is segregated by lot number.
- B. Practice ammo is stored in the practice ammo point. (ref. sketch)

3. 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 controlled by range cadre. Trainees will meet all prerequisites prior to Live Bay Training.
- B. Field Litter Ambulance with medic will be on site at all times.
- C. For all injuries resulting in threats to life, limb and eyesight, medics on sight are the first responders. Range Control, Unit Headquarters and E911 will be notified accordingly.
- D. Check OSUT/BCTB units for
 - 1. Range request
 - 2. Ice Sheets
 - 3. Wet bulb
 - 4. Hearing protection
 - 5. Unit Commander's risk Assessment
- E. Ensure that the using unit does not conduct any Upper Body PT starting from that morning until live fire is complete.
- F. All personnel, to include using unit cadre and trainees, will receive a safety briefing prior to any training taking place.
- G. All personnel will wear Kevlar helmet, IBA and hearing protection.
- H. All trainees will receive instruction on proper grenade/fusing techniques as well as proper usage while at the range (Black Glove shells will be used during the fusing process and expended shell recovery), trainees will be supervised at all times during the fusing process.
- I. All trainees must complete Mock Bay training in order to throw live.
- J. All Mock Bay failures will not be allowed to throw live. All failures will be determined by the Range NCOIC and the RSO.

- K. All Pit NCOs are certified by the company commander and are competent in all safety procedures.
- L. Any member of the trainee's chain of Command that wants to observe trainees throwing live hand grenades will be in the same uniform as the trainees, and must acknowledge that they understand the safety procedures. Observers will use either the Range Tower or blast wall viewing ports to observe.
- M. Any bay (consisting of one pit) adjacent to a DUD grenade that is not separated by a berm will not be utilized until the DUD has been cleared by EOD.
- N. All Composite Risk Management Worksheet controls will be observed. Violations will be brought to the attention of the NCOIC, RSO, Range Cadre, and Drill Sergeants.
- O. Prior to Live Fire portion of grenade training a guard will be posted to control personnel from entering the Live Fire Area of the Grenade Range.
- P. All Pit NCO's will be certified on dropped grenade procedures.
- Q. 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 Control and EOD will be notified immediately.
 - 4. Adjacent Bays may continue training as long as there is a berm separating them from the DUD.
 - 5. Once EOD arrives all bays will cease activities until the DUD has been neutralized.
- R. Live grenades will not be thrown into standing water, deep snow, or dense vegetation.
- S. Medical
 - 1. Primary means of coverage will be on-site FLA with 2 medics. A medic with aid bag will walk with each Platoon with the live fires.
 - 2. The OIC will evacuate serious injuries by air or ground by calling a 9-line MEDEVAC through the Range Control net. The primary LZ for air evacuation is FA 9725 8285. The primary marking signal for air evacuation is red smoke.
 - 3. The company 1SG will go through a daily MEDEVAC rehearsal with the Medics and a Leadership huddle prior to each iteration will detail the MEDEVAC plan.
 - 4. Routine and non-life threatening injuries will use the ground FLA for MEDEVAC. Life threatening injuries will call 9-line MEDEVAC request.
 - 5. In the event of an accident, injury, or incident the RSO will immediately call a cease fire until the problem is resolved. The RSO will render reports to Range

Control and take action as directed by Range Control. In the event that the injury could result in the loss of life, limb, or eyesight he/she will call E911 and request air/ground evacuation. Regardless of injury or not the following information will be furnished by the OIC/RSO to Range Control:

1. Designation of unit.
2. Range and Location.
3. Type of weapons involved.
4. Type of ammunition involved.
5. Brief summary of what happened.
6. Personnel injuries and extent.
7. Full name, SS#, Rank, and unit of injured personnel.
8. Extent of property damage.
9. Intentions regarding an AR 15-6 investigation.

4. The point of contact for this memorandum is the undersigned at (706) 626-5506.

A handwritten signature in black ink, appearing to read "William T. Nuckols Jr.", followed by a horizontal line extending to the right.

William T. Nuckols Jr.
LTC, AR
Commanding



DEPARTMENT OF THE ARMY
HEADQUARTERS, 3RD BATTALION, 81ST ARMOR
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BLDG 4322 7148 2ND CAVALRY STREET
FORT BENNING, GEORGIA 31905

ATZK-BAG-S-3

17 July 12

MEMORANDUM FOR Ft Benning, GA 31905

SUBJECT: 3-81 AR Standard Operating Procedures (SOP) for Dianda Hand Grenade Range

1. **References:** FM 23-30/FM 3-23.30
Training Support Package (TSP)
Range Control
DA Pam 385-10
FM 5-19
2. **B/3-81 AR Responsibilities**
 - a. Provide a minimum of four personnel to facilitate training
 - b. Conduct Period of instruction covering the conduct of range, safety and TSP
 - c. Ensure that training is conducted in IAW TSP
3. **Training Unit Responsibilities**
 - a. Necessary documentation: POI CRM Worksheet, Dynamic Daily Risk Assessment, Signed BDE Risk Assessment, Applicable Waivers for Training, TSP for Training Event, MCOE Regulation 350-19, and a range book, with appropriated hot/cold weather injury prevention cards, inclement weather SOP, maps with location of AXP's/LZ's.
 - b. Personnel Requirements
 1. One of the Top 3 (CDR, XO, 1SG)
 2. One Certified Range Safety Officer
 3. Medic w/ litter, and FLA
 4. One Ammo NCO
 5. Six Certified Lane Safeties
 6. 10 Man detail to arrive with Ammo NCO
 - c. Equipment Requirements
 1. Toilet Paper: 5 Rolls
 2. Meals: per Unit SOP
 3. Commo: 2EA. SINGARS w/ Spare Batteries
 4. Dedicated EVAC Vehicle
 5. Earplugs For all personnel

6. Ice Sheets
 7. Wet Bulb
 8. Drinking Water: Per Unit SOP
 9. Trash Bags: 10
 10. Spill Kits for Military Vehicles
 11. HGQC Course Score Cards
 12. 4 Fire Extinguishers
 13. Kevlar/ACH, IBAS w/ Plates, Gloves, and Eye protection
 14. Warming Tent during Winter Operations
- d. The Hand Grenade instructors will do range walk before any trainee is sent down range for police call. The pits and bunkers will be examined by an instructor and any unexploded grenades found either down range or in the bunkers will be handled by EOD.

4. Training Sequence:

- a. OIC will give a briefing to the training unit instructors. The briefing will include safety, position of the FLA with Medics, the RSO and all other safety information. At this time the OIC will also determine how many trainees have profiles that would prevent them from participating in training. Profiles must be considered on a case by case basis. Only individuals with profiles that impair their ability to perform the range requirements in a safe manner will be excluded from training, i.e., taking medications, arm or back injury, crutches, etc. A profile given for shaving, shin splints, etc., is not sufficient reasons for excluding an individual from training.
- b. The Training will begin with an introduction which includes, orienting the trainees to the range, where to walk and where not to walk, off limits areas and a safety statement, including but not limited to Appendix C, FM 23-30.
- c. Trainees will be given a class on the inspection and components of hand grenades. The trainees are given a class on hand grenade identification and are shown the seven most frequently used grenades with their primary uses.
- d. A class is given then on safety checks including "Milking" the grenade (if pressure on the safety lever is relaxed $\frac{1}{4}$ of an inch after the safety pin has been removed, it is possible that the striker can rotate and strike the primer while the trainee is still holding the grenade. Trainees must be instructed to maintain enough pressure on the safety lever so the striker cannot rotate.)
- e. The trainees must be given a demonstration of the four different throwing positions that will be used in the HGQC.

- f. Trainees will be given a class on how to properly attach grenades to their ammo pouches.
- g. The trainees will conduct a PE on all of the throwing positions.
- h. Mock bay will begin with a demonstration of the procedures to move trainees into the pit, to include the four commands used to get the individual into the throwing posture, and how to throw the grenade.
- i. The trainees will be given a class on the eight safety violations and how to react to a dropped live M67.
- j. Trainees must throw two practice grenades 15 meters without violating any of the safety requirements to throw a live grenade.
- k. Trainees found at risk will have helmet marked with chalk and the number of the violation.
- l. Trainees will be retrained by unit instructor and after retraining will attempt with one more grenade, if unable to meet standards number on helmet will be circled, showing he did not meet range standards.
- m. The Eight Safety Violations:
 - 1. **Lifting your thumb off the lever**
 - 2. **Moving your fingers on the body of the grenade**
 - 3. **Moving you fingers on the body of the grenade, while in the prepare to throw position**
 - 4. **Side arming**
 - 5. **Standing up and watching the grenade go down range**
 - 6. **Anticipating the commands**
 - 7. **Throwing the grenade too far left or right**
 - 8. **Not throwing far enough**
- n. Trainees must successfully complete this training prior to being considered for training with live fragmentation grenades. This prerequisite training must occur on the same day that live-bay training will be conducted. There are no exceptions to this policy.
- o. The trainees will be briefed and drilled on reactions to potential grenade “accident” scenarios.
- p. During Mock-bay training, trainees who are identified as weak throwers or safety hazards to themselves or the pit NCO will be given remedial training at the range site. After the training is complete, trainees will be given one grenade to evaluate their improvement in throwing.

- q. If trainees have not improved they are considered safety hazards and will not be able to throw live grenades and will have to come back at a later date.

5. **Live Bay Procedures:**

- a. Trainees moving to Live Bay will receive a briefing and demonstration of the conduct of throwing live fragmentation grenades.
- b. During the conduct of live bay, trainees are rotated to their respective pits four at a time.
- c. Each pit must be manned by a B Co 3-81 Armor instructor.
- d. During conduct of throwing all personnel will remain behind the complete blast wall that is equipped with viewing ports. Trainees can observe through the windows in the wall.
- e. An NCO from the training unit will control the personnel behind the complete blast wall.
- f. All personnel in Live Bay area will wear their ACH, IBA with Plates, eye protection and ear protection during entire time spent in Live Bay. There are no exceptions to this policy.
- g. During Live Bay rotation, trainees will move from the blast wall to the pits in groups under the supervision of the respective Pit NCO's.
- h. The trainees will secure two live grenades from the ammunition point, upon arriving at the pit they will give the grenades to the Pit NCO. Trainees must hold grenades in full view of Range Cadre at all times.
- i. The Pit NCO is responsible for supervising the trainee in the pit. All personnel in non-throwing pits will take cover, i.e., kneeling with knee in contact with the ground and shoulder contact with the downrange forward wall, until it is time for their pit to throw.
- j. Range OIC will announce what pits are going to throw, "Pit 1 and Pit 4" where the Pit NCO will direct the trainee in his pit to 'STAND'. The Pit NCO will then direct the trainee to 'PULL PIN'. After the pin is pulled the Pit NCO will direct the trainee to 'PREPARE TO THROW'.
- k. At this point the Range OIC will visually ensure that both pits are prepared to throw, and announce 'CLEAR'. This lets the Pit NCO's know to instruct the trainees in the pit to 'Throw'. After throwing the grenade the trainees will get down behind cover. The Pit NCO will get down after safety checks are complete. All pit NCOs will be certified in dropped grenade procedures.

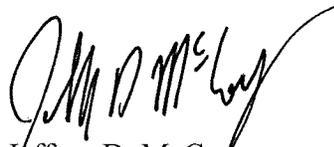
- l. During the course of throwing if there are any acts that the Range OIC observes as unsafe he will announce it over the PA system to let the entire range know what is happening.
 - m. Upon completion of the Live Bay, the impact area must be police called by training unit. Trainees will be under direct supervision at all times.
6. **HGQC Procedures:**
- a. The training unit is responsible for the running of the HGQC course. Range Cadre will assist in the set up and the operation of the course.
 - b. Score cards are provided by Range Cadre
 - c. Police call must be complete before Ammo can be turned in.
 - d. No smoke or incendiary grenades will be used on the course.
 - e. Any practice grenade that fails to detonate will be identified and no trainees will approach the grenade. EOD will be notified and proper procedure will be followed.
7. **Safety:**
- 1) The Ammunition NCO will sign for the live ammunition. He will inspect the ammunition in accordance with the following procedures.
 - a. Inspect the M228 prior to installation in the practice body.
 - b. Inspect for the presence of pull pin, and ensure pin is properly crimped or spread.
 - c. Check for the presence of safety clip.
 - d. Check for distorted or damaged lever assembly.
 - 2) Inspect the M67 Fragmentation Grenade in the following sequence:
 1. Remove fiber container lid and remove packing
 2. If grenade in upside down in the container do not attempt to remove it is a **CRITICAL DEFECT, REPLACE AND REPORT CONDITION.**
 3. Inspect fuze for pull pin and safety clip. If they are missing it is a **CRITICAL DEFECT, REPLACE AND REPORT CONDITION.**
 4. If a safety lever ears are not correctly formed and in positioned, the lower lever may fail to retain the striker and result in unintentional initiation of the fuze. This condition is a **CRITICAL DEFECT, REPLACE AND REPORT CONDITION.**

5. Report **CRITICAL DEFECTS** immediately to Ammunition Surveillance through Range Control.

6. Medical

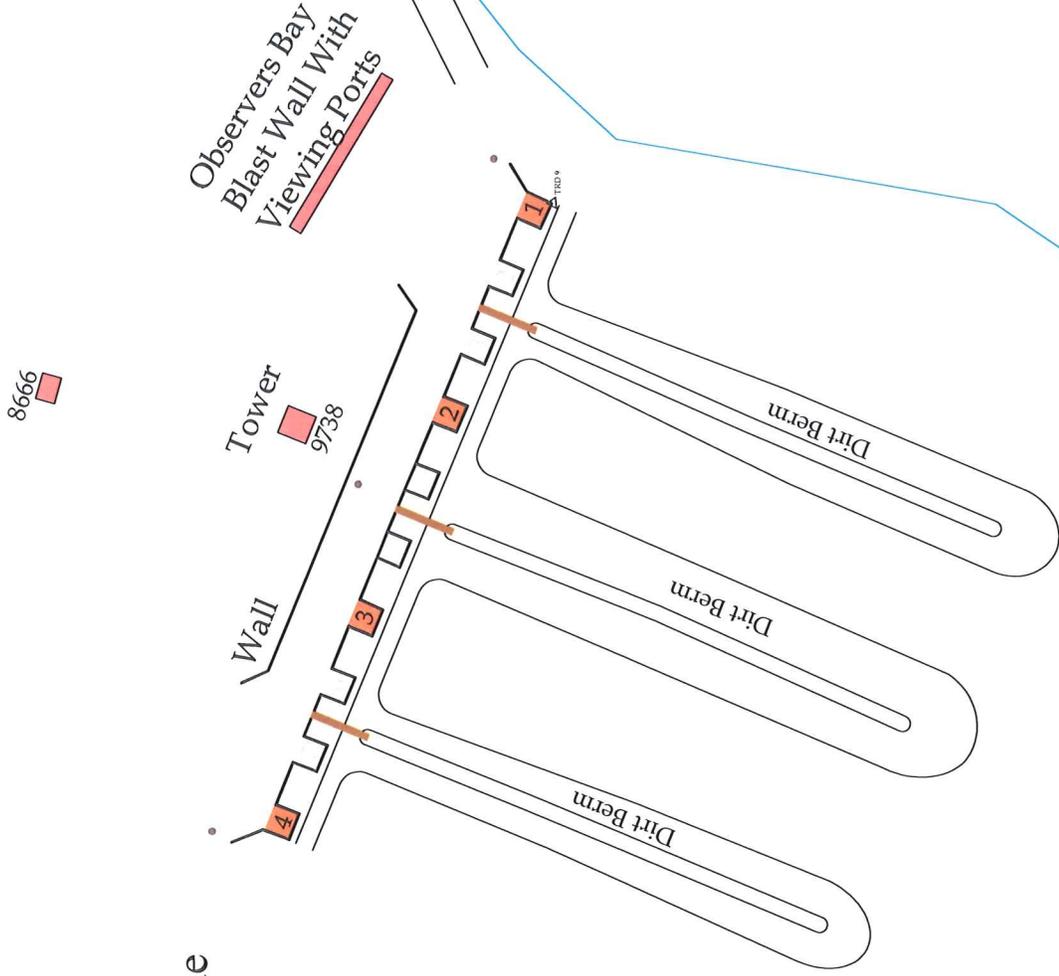
- a. Primary means of coverage will be on-site FLA with 2 medics. A medic with aid bag will walk with each Platoon with the live fires.
 - b. The OIC will evacuate serious injuries by air or ground by calling a 9-line MEDEVAC through the Range Control net. The primary LZ for air evacuation is FA 9725 8285. The primary marking signal for air evacuation is red smoke.
 - c. The company 1SG will go through a daily MEDEVAC rehearsal with the Medics and a Leadership huddle prior to each iteration will detail the MEDEVAC plan.
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 - e. In the event of an accident, injury, or incident the RSO will immediately call a cease fire until the problem is resolved. The RSO will render reports to Range Control and take action as directed by Range Control. In the event that the injury could result in the loss of life, limb, or eyesight he/she will call E911 and request air/ground evacuation. Regardless of injury or not the following information will be furnished by the OIC/RSO to Range Control:
 1. Designation of unit.
 2. Range and Location.
 3. Type of weapons involved.
 4. Type of ammunition involved.
 5. Brief summary of what happened.
 6. Personnel injuries and extent.
 7. Full name, SS#, Rank, and unit of injured personnel.
 8. Extent of property damage.
 9. Intentions regarding an AR 15-6 investigation.
7. Communication: The unit will remain in contact with Range Control at all times. If communications are lost the unit will go into a self induced check fire until communications are restored.

8. DUD Procedures: If at any time during Live Bay exercise a hand grenade fails to detonate the Range OIC will order a cease fire. The range OIC will then call Range Control who in turn will notify EOD. **After waiting 5 minutes** the OIC can shut down those training bays on whichever side/impact/pit area the dud has been thrown, and continue to throw on the opposite side/impact/pit area. Upon completion the using unit may leave area, the OIC and RSO must remain in the tower until dud is cleared by EOD
8. **Completion of Range:**
 - a. When police call is complete Range Cadre will assist training Unit in turn in of ammo.
 - b. Ammo NCO must account for all practice grenade bodies and turn in to Range Cadre.
 - c. Range OIC will call Range Control with final roll up for ammo expenditures.
9. The point of contact for this memorandum is the undersigned at (706) 626-5506 jeffrey.mccoyle@us.army.mil

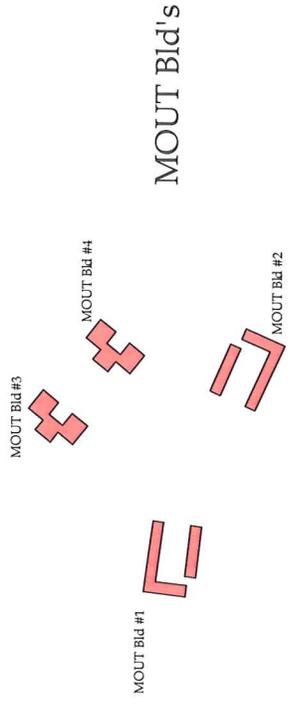


Jeffrey D. McCoy
LTC, AR
Commanding

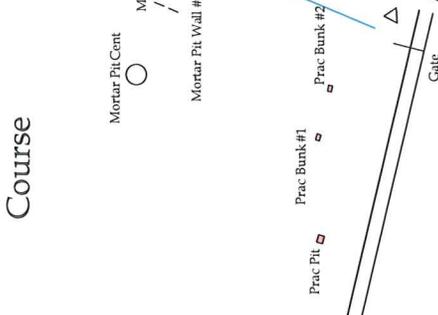
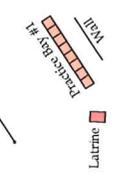
Dianda Live Grenade Throwing Bays



Fence



Mock Bay Demonstration Area



The Grenade Throwing Bays

Fence

Dud Area, Keep Out

Guard Position (FA 9712 8278)
When Live Grenade Throwing
Bays Are Used

Dianda Range Live Grenade
Throwing Bays

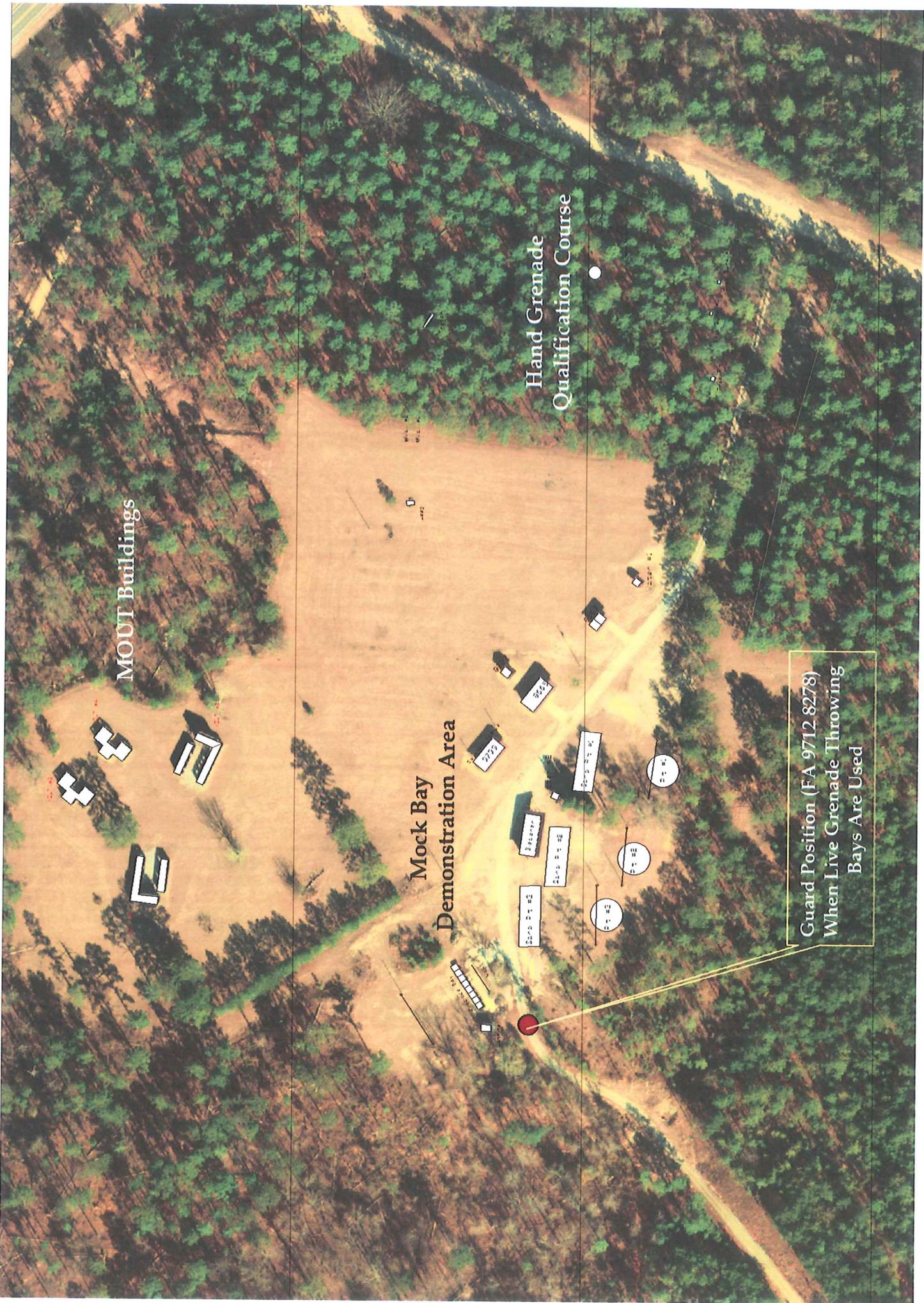


MOUT Buildings

Hand Grenade
Qualification Course

Mock Bay
Demonstration Area

Guard Position (FA 9712 8278)
When Live Grenade Throwing
Bays Are Used



Dianda Range

Guard Position (EA 9712 8278)
When Live Grenade Throwing
Bays Are Used

MOUT Buildings

Mock Bay
Demonstration Area

Hand Grenade
Qualification Course

Live Grenade
Throwing Bays



Dianda Range

Guard Position (FA 9712 8278)
When Live Grenade Throwing
Bays Are Used

Mock Bay
Demonstration Area

PRACTICE HAND GRENADE
AMMO POINT

Hand Grenade
Qualification Course

LIVE GRENADE
AMMO POINT

Live Grenade
Throwing Bays

MOUT Buildings

