

**FIRING/NONFIRING DATA**

*Log # 2-14-13*

*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: 14 Feb 2013  
Range: E8 (EOD Range)  
Title: Emergency Response and Demolition Operation  
Problem No:

THRU:

FROM: 789th OD CO (EOD)  
8040 Jecelin RD Bldg 2490  
Ft Benning, GA 31905

**SECTION I, TYPE OF TRAINING**

a. Live Fire                      b. Non-live Fire                      CP/Controller Coordinates: GA 08370 84170

**SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS**

Coordinates	Type	Model/DODAC	Size of Charges
GA 08370 84070 (Blast Pit)	CHG, Demo Block C-4 M112; Cord, Detonating	M023, M456	No Greater than quantities listed in the E8 SOP
GA 08370 84070 (Blast Pit)	Cap, Blast ELEC M6; Cap, Blast NON-ELEC M7; Minitube 500' & 1000'	M130, M131, MN88, MN90	No Greater than quantities listed in the E8 SOP
GA 08370 84070 (Blast Pit)	CTG, Impulse Electric .50 cal; CTG, 12 Gauge (EOD Use)	M174, DWEE	No Greater than quantities listed in the E8 SOP

**SECTION III, WEAPONS/AMMUNITION REQUESTED**

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
GA 08370 84070 (Blast Pit)	Mk2 Mod1 .50 Disruptor	M174 CTG, Impulse Electric .50 cal	N/A	N/A
GA 08370 84070 (Blast Pit)	PAN Disruptor	DWEE CTG, 12 Gauge (EOD Use)	N/A	N/A

**SECTION IV, LIVE FIRE EXERCISES Attach the following:**

**SECTION V, NON-LIVE FIRE TRAINING**

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

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

Name/rank of requesting officer:  
James D. Swartz, SSG, USA, Platoon Sergeant

Name/rank of Major Unit S3/Commander:  
Ryan M. Plemmons, CPT, LG Commanding

**SECTION VI, FOR RANGE DIVISION USE**

DATE: 19 MAR 13

TO:

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

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

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

*Prof S. Tuck*



**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

05 March 2013

MEMORANDUM FOR Commander, 789 Ordnance Company (Explosives Ordnance Disposal),  
Attn: CPT Ryan Plemmons, Fort Benning, GA 31905

SUBJECT: Standing Operating Procedures for EOD Disposal Range (E-8) Concept and Safety  
Review

1. References.

- a. Standing Operating Procedures for EOD Disposal Range (E-8), 14 February 2013.
- b. Army Regulation 385-10, The Army Safety Program, 24 August 2007
- c. Army Regulation 385-63, Range Safety, 19 May 2003
- d. Department of the Army Pamphlet 40-501, Hearing Conservation Program, 10 December 1998
- e. Department of the Army Pamphlet 385-10, Army Safety Program, RAR 19 January 2010
- f. Department of the Army Pamphlet 385-30, Mishap Risk Management, RAR 01 February 2010
- g. Department of the Army Pamphlet 385-63, Range Safety, RAR 12 May 2009
- h. Field Manual 5-19, Composite Risk Management, August 2006
- i. MCoE Regulation 350-19, Range and Terrain Regulation, 23 July 2010
- j. MCoE Policy Memorandum 385-6-14, Composite Risk Management, 22 October 2012

2. Document received on 01 March 2013.

3. Concur w/comment.

a. Concept Paper, paragraph 6h, pg 2. Maximum NEW is 98.5 pounds for a 1,476.04' (450M) standoff distance. Recommend that you change your NEW to 98.5 pounds (non-fragment producing items) in the SOP. Use of any weight greater than 98.5 pounds will penetrate into Training Area E3.

ATZB-SO

SUBJECT: Standing Operating Procedures for EOD Disposal Range (E-8) Concept and Safety Review

4. Point of contact is Mr. Michael W. Risher II, MCoE/Fort Benning Safety Office, Comm. (706) 545-8278, Govt. Cell. (706) 604-7249, [michael.w.risher.civ@mail.mil](mailto:michael.w.risher.civ@mail.mil)

  
JILA E. CARLSON  
Director, MCoE/USAG Safety



**DEPARTMENT OF THE ARMY**  
789<sup>th</sup> ORDNANCE COMPANY (EXPLOSIVE ORDNANCE DISPOSAL)  
8040 JECELIN ROAD, BLDG 2490  
FORT BENNING, GA 31905

AFBC-OFO-CO

14 February 2013

MEMORANDUM FOR CHIEF, RANGE DIVISION, DOT, USAIC

SUBJECT: Standard Operating Procedures for EOD Disposal Range (E-8)

1. PURPOSE: To establish procedures for all demolition operations and specific EOD training at the EOD Range (E-8) and incident sites on Fort Benning, GA.

2. APPLICABILITY: This SOP applies to all personnel assigned or attached to the 789<sup>th</sup> Ordnance Company (EOD) and any other person utilizing the EOD range for the purpose of demolition operations.

3. REFERENCE:

- a. AR 75-15 w/ FORSCOM Sup 1
- b. AR 380-10, Army Safety Program
- c. AR 385-64, Ammunition and Explosive Safety Standards
- d. FM 5-250, Explosive and Demolitions
- e. TM 9-1300-206, Ammunition and Explosive Standards
- f. TM 60A 1-1-22, General EOD Safety Precautions
- g. TM 60A 1-1-31, Specific EOD Demolition Procedures
- h. TM 60A 1-1-4, EOD Protective Works
- i. MCOE 350-19 Range and Terrain Regulation

4. DEFINITIONS:

a. Barricade - An intervening barrier constructed to limit the effect of an explosion on the surrounding area.

b. Dud- A munition which has failed to function as designed after receiving the proper stimuli.

c. High Order Detonation- Rate of advance is equal to or greater than the expected rate of detonation rate.

d. Low Order Detonation- Rate of advance is lower than the expected rate of detonation.

e. Misfire- Failure to fire or detonate properly.

f. Net Explosive Weight (NEW) - The total quantity of explosive material in an item or round.

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SUBJECT: Standard Operating Procedures for EOD Disposal Range (E-8)

g. Tamping- Tightly packing dense material i.e. earth, around explosive placed on an object.

h. Range OIC- The senior EOD person on site in grade of E-7 and above.

i. Range Safety Officer- Site safety in grade of E-6 or above.

5. REVISIONS: This SOP supersedes all previous SOP's by this organization.

6. SAFETY:

a. During demolition operations all non-essential personnel will return to the safe area located outside the fragmentation radius, located IAW TM 60A 1-1-22 and TM 60A 1-1-31.

b. Only qualified EOD personnel will be at the blast pit when the placement of explosive charge is being conducted and then only the minimum number necessary to accomplish the task.

c. The Range OIC will designate a safe area outside the fragmentation radius, determine the level of protective clothing, and ensure its proper wear.

d. All matches, lighters and flame producing devices will be collected and left in the designated safe area.

e. An EOD qualified person will remain in the designated safe area and maintain communications with range control and the EOD unit at all times.

f. Fires involving ammunition or explosive will not be attacked if occurring in the disposal area but, will be reported to range control and forestry.

g. Any person who feels an unsafe act is occurring will call "Cease Fire" and the act will immediately be addressed.

h. The range limit for emergency destruction of ordnance on the EOD range is 25 lbs NEW of fragment producing items and 119 lbs NEW of non-fragment producing items. In the event of emergency destruction of ordnance greater than 25 lbs and less than 75 lbs NEW of fragment producing ordnance or greater than 119 lbs and less than 360 lbs NEW of non-fragment producing ordnance, EOD will coordinate with Range Control to clear all surrounding areas north of Pine Tree Road. The range limit for training purposes will not be greater than 25 lbs NEW of fragment producing items and 119 lbs NEW of non-fragment producing items in the demolition area (see overhead photo). All detonations will take place inside the assigned demolition pit.

i. When an incident occurs on the range, regardless of injury or not, the OIC/RSO will immediately call a cease fire and report it to Range Control and the using unit's higher headquarters. OIC/RSO will take action as directed by Range Control. The cease fire will remain

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SUBJECT: Standard Operating Procedures for EOD Disposal Range (E-8)

in effect until the problem is resolved and cleared through Range Control. If the incident results in an injury, the OIC/RSO will use the procedures outlined in the medical paragraph. The following information will be furnished by the OIC/RSO to Range Control:

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

j. All initiating explosive i.e. blasting caps and fuzes, will be kept a minimum of 25 feet from all other explosives. All explosives will be protected from the direct sunlight and other elements to the fullest extent possible.

k. All misfire procedures for demolitions and disruptors will be dealt with IAW TM 60A 1-1-31.

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

m. Activities will be suspended upon approach of an electrical/thunder storm.

n. EOD will perform disposal operations during daylight hours only, unless it is an extreme emergency.

o. Any EOD disruptor tool that uses a slug to disrupt ordnance or Improvised Explosive Device will have a barricade to catch the slug. This will prevent the slug from traveling outside the E-8 area. The barricade will consist of rail road ties, earth mound, or sand bags of at least 18 inches thick.

#### 7. DISPOSAL BY BURNING:

a. The burning site should be free of all combustible material for a radius of 61 meters (200 feet).

b. Burn sites shall not be closer than 46 meters (150 feet) to another burn site (fig4-2, TM 60A 1-1-31).

c. Burn sites will be located in the vicinity of blast pit.

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SUBJECT: Standard Operating Procedures for EOD Disposal Range (E-8)

- d. Burns are not to be repeated on previously burned over areas within 24 hours.
- e. Burning will be the only authorized disposal for quantities of propelling charges. Destruction of rocket motors will be IAW FIG 4-5, TM 1-1-31 and AMC Reg. 385-100.
- f. Large propelling charges must not be piled on one another but shall be burned in a single layer of charges laid side by side.
- g. Do not perform a burn if the wind speed is greater than 15 mph.
- h. Burning procedures will not take place without prior approval from Range Control, Forestry, and Fort Benning Environmental.
- i. EOD will be responsible for coordination of required personnel before any burning takes place per Range and Terrain Reg. MCOE 350-19 and Unit SOP.

#### 8. SERVICING OF DESTRUCTION SITE:

- a. During loading or unloading of motor vehicle, the brake must be set and at least one wheel must be chocked.
- b. No explosives or ammunition shall be loaded into or unloaded from motor vehicles and/or trailers while their motors are running.
- c. Trucks will distribute explosive containers or explosive items to be destroyed at the blast pit where destructions are to take place. Trucks will then withdraw from demolition area to a designated safe area outside of the fragmentation radius until destruction is completed.
- d. Containers of explosives shall not be opened until the truck has been withdrawn.
- e. Containers of explosive or ammunition shall be spotted and opened at least 10 feet from each other.
- f. Empty containers shall be closed and moved a sufficient distance away to prevent charring or damage. They will be retrieved upon successful completion of the operation.

#### 9. INITIATION OF DESTRUCTION CHARGES:

- a. Prior to setting charges, check area to ensure no unauthorized personnel are present and excess EOD personnel have departed the blast area.
- b. EOD will contact Range Division via radio and request opening code for disposal procedures. Wait for their approval code and maintain continuous monitoring of range control by radio.

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SUBJECT: Standard Operating Procedures for EOD Disposal Range (E-8)

c. Charges will be placed in accordance with applicable TM 60 series for destruction.

d. Prior to initiation of the charge, EOD will sound an audible warning utilizing the response truck PA system to all personnel within earshot to take protective cover until the all clear is given and the EOD team will depart to the designated safe area outside the fragmentation radius.

e. After successful detonation of all charges, a designated EOD team will approach the demolition area to survey the disposal areas. The team member will act as a safety observer. In the event of any kick outs or low orders, those items found will be destroyed in place by detonation. If a piece of ordnance is on fire, the EOD team will back out of the demolition area to a designated safe area outside of fragmentation radius until the fire has extinguished.

f. During the approach, if a fire is spotted on the demolition area, the EOD team will withdraw to the designated safe area outside the fragmentation distance and notify Range Control and Forestry of the fire.

g. After all disposal operations are complete, EOD will contact range control and request a closing code.

#### 10. SAFE DISPOSAL AREA (INCIDENT SITES):

a. Notify Range Division of EOD location and intention to destroy the item in place.

b. Search surrounding area for personnel conducting training.

c. Prepare and place charges for destruction of dud(s) IAW TM 60A 1-1-31.

d. All EOD personnel will return to the safe area.

e. Sound audible warning utilizing the response truck PA system and notify personnel in area to take protective cover until "All Clear" is given.

f. Initiate charge.

g. After denotation, check disposal location and search immediate area for additional ordnance.

h. Notify Range Division of completion of operation, munitions destroyed, demo used and give all clear prior to departure.

#### 11. MEDICAL SUPPORT:

a. One combat lifesaver bag will be in each EOD Response vehicle at all times.

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SUBJECT: Standard Operating Procedures for EOD Disposal Range (E-8)

b. During large scale destruction operations a combat lifesaver with bag, and range control radio with designed vehicle will standby in the safe area until all operations are complete.

c. In the event of an accident, injury or illness, the OIC/RSO will immediately call a cease fire then call 911 using the standard 9 Line MEDEVAC to determine what type of evacuation is the most appropriate for the injury (loss of life, limb or eyesight). MEDEVAC will be IAW MCoE Regulation 350-19 and USAIC 40-2. Landing zone for MEDEVAC aircraft will

be established prior to use and will be marked appropriately. Range Control will be notified in this event. The cease fire will remain in effect until cleared through Range Control.

## 12. AMMUNITION SUPPLY INSTALLATION SUPPORT:

### a. Code H ammunition destruction:

(1) ASP will coordinate as far in advance as possible when requiring EOD assistance.

(2) The following items will be provided by the ASP in support of destruction by burning.

(a) Diesel Fuel.

(b) Combustible dunnage.

(c) Any Class V items supporting detonation.

(d) Personnel to load/off- load vehicle.

(e) Transportation of Code H material to demolition site and empty containers to be returned.

(3) Items to be destroyed will be transported and segregated IAW storage compatibility.

(4) An inventory list will be made available to EOD prior to the date of destruction.

(5) The ASP will notify EOD of any hazardous munitions included in the shipment prior to loading.

## 13. EOD RANGE:

a. EOD Site (E8) is located at 16S GA 084 841.

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SUBJECT: Standard Operating Procedures for EOD Disposal Range (E-8)

b. Although the EOD site is an exclusive site, the Team Leader / Site OIC is responsible for calling Range Division and requesting to open the range and informing them of the number of personnel on the site. Also, a red range flag will be raised upon opening of the site and all roadblocks will be employed for training purposes.

c. A thorough search of the area will be made after each shot for any items not destroyed. Any such items will be destroyed in place. If a fire resulted from the shot, no action will take place for 24 hours.

d. After completion of demolition operations, the range will be closed and the vehicle gate locked, Range Division notified and the roadblocks and range flag removed.

e. Maintenance of the site will be accomplished by EOD with assistance from Range Division for heavy equipment as needed. Prior to site maintenance, an ordnance clearance will be conducted by the 789<sup>th</sup> EOD.

f. A overhead photograph of the EOD range is enclosed.

g. For training on the range EOD will contact and schedule E-8 area IAW Fort Benning regulations.

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

#### 14. EPA

a. Site OIC/ Team Leader will contact Ft. Benning Environmental Protection Division, (706) 545-7579, prior to disposal by detonation or burning at the EOD site if the destruction does not fall under emergency response.

b. Personnel will follow the appropriate 52nd Ordnance Group, 184th Ordnance Battalion, Fort Benning, and all EPA guidance actions involving the destruction of ordnance.

15. Point of contact is the undersigned at DSN 706-545-7117.



RYAN M. PLEMMONS  
CPT, LG  
Commanding



**DEPARTMENT OF THE ARMY**  
789<sup>th</sup> ORDNANCE COMPANY (EXPLOSIVE ORDNANCE DISPOSAL)  
8040 JECELIN ROAD, BLDG 2490  
FORT BENNING, GA 31905

REPLY TO  
ATTENTION OF:

AFBC-OFO-CO

14 February 2013

MEMORANDUM FOR: CHIEF, RANGE DIVISION, DIRECTORATE OF OPERATIONS  
AND TRAINING

SUBJECT: Demolition Training, E-8

1. PURPOSE: The purpose of this training is to conduct demolition training and disruption techniques on Improvised Explosive Devices (IED's) and Unexploded Ordnance, (UXO's).
2. Range and terrain requirements: E-8.
3. Demolition and ammunition types:
  - a. Chg, Demo C-4 / M023
  - b. Cord, Detonating / M456
  - c. Cap, Blasting Electric / M130
  - d. CTG, Impulse .50 Cal / M174
4. Execution and concept of operation:
  - a. This training is to prepare the unit for deployments and UXO response.
  - b. RSO/OIC will ensure that all personnel understand the training to be conducted, give the safety brief, and designate a safe area outside the fragmentation radius IAW 60A1-1-131.
  - c. EOD teams then report to the blast pit and set up various disruption techniques.
  - d. Once the charges are placed one team will remain at the blast pit to prime all charges for detonation.
  - e. When all charges are primed, the remaining team will move to the designated safe area outside the fragmentation radius.



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789<sup>th</sup> ORDNANCE COMPANY (EXPLOSIVE ORDNANCE DISPOSAL)  
8040 JECELIN ROAD, BLDG 2490  
FORT BENNING, GA 31905

- f. Once everyone has been accounted for in the designated safe area and “fire in the hole” is announced 3 times the charges will be detonated.
- g. After detonation, one team will move to the blast pit to make sure no hazards are present before calling the rest of the EOD personnel to the blast pit.
- h. Using unit is responsible for cleanliness of the range and will be cleared prior to departing the range.
- i. Upon arrival and departure the RSO/OIC will contact range control for opening and closing codes.

5. Safety:

- a. EOD Team Leaders will be in charge of their teams and they will ensure all safety precautions are followed.
- b. RSO will oversee all safety on the range.
- c. Anyone can call a cease-fire if they observe an unsafe act.
- d. If any unsafe act occurs, a cease-fire will be called and addressed.
- e. Non-Emergency demolitions will take place during night hours.
- f. All disruptors will have a barricade of sand bags, earth mound, and railroad ties of at least 18 inches thick to keep the slug from traveling outside the fragmentation distance of 450 meters.
- g. All misfires will be handled per IAW TM 60A 1-1-31.
- h. All fragmentation distances will be based off the largest demolition charge and the safe area will be designated by the range OIC IAW 60A 1-1-31. Munitions fragmentation distance will not exceed a 450 meter radius.
- i. Smoking is not permitted during training. A smoking area designated by the OIC will be a minimum of 100 feet from all flammables and explosives.
- j. There will be two Bi-Carbonate fire extinguishers located at a designated area.



**DEPARTMENT OF THE ARMY**  
789<sup>th</sup> ORDNANCE COMPANY (EXPLOSIVE ORDNANCE DISPOSAL)  
8040 JECELIN ROAD, BLDG 2490  
FORT BENNING, GA 31905

6. Medical:

- a. Ensure Medic or Combat Life Saver and a designated vehicle are available on the range. Combat Life Savers first aid bag will be inventoried prior to training. Unit will use the standard 9 Line MEDEVAC in case of injury or illness. We will call 911 and determine what type of evacuation is the most appropriate for the injury. MEDEVAC will be IAW MCOE 350-19 and USAIC Regulation 40-2. Using unit's higher headquarters and Range Control will be notified in this event.

7. Demolition Materials:

- a. An ammunition point will be established in the safe area.
- b. The ammunition NCO (E-5 or above) will control the storage and distribution of all ammunition.
- c. The ammunition NCO will only issue the amount of demolition material required for each setup.

8. For additional information, refer to SOP for E-8 area dated 14 February 2013.

9. Point of contact us the undersigned at 545-4974.

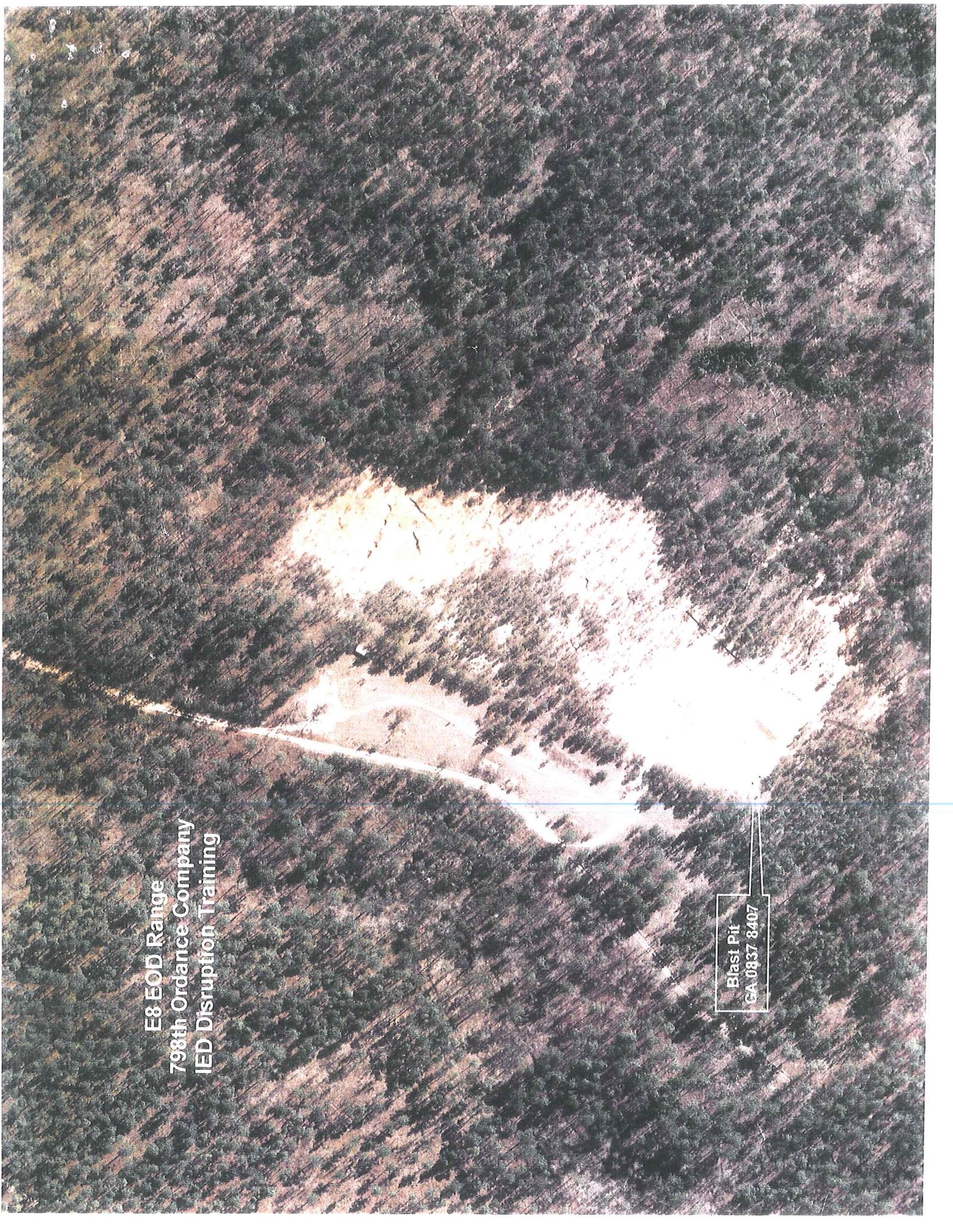
A handwritten signature in black ink, appearing to read "R. Plemmons", is positioned above the typed name.

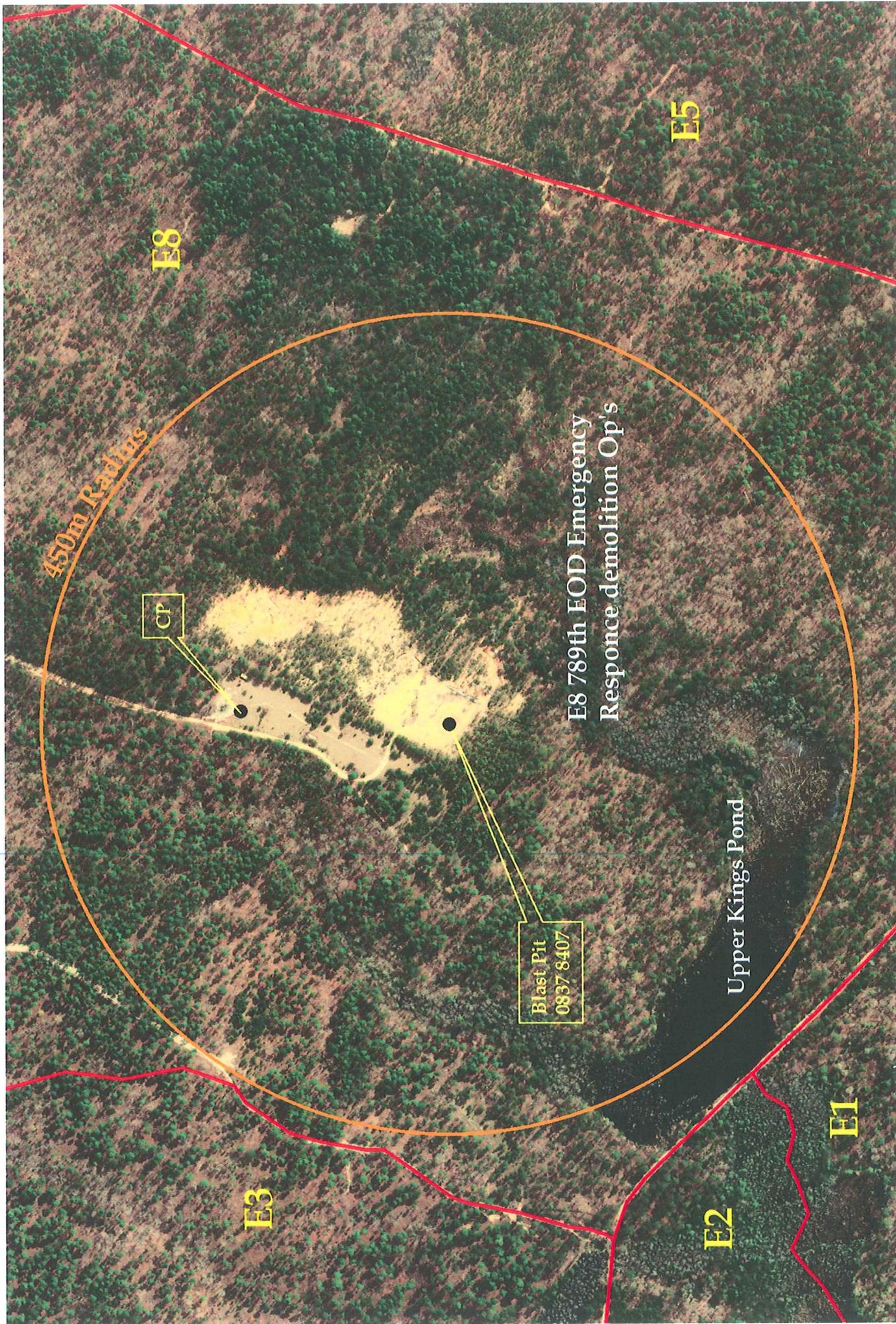
RYAN M. PLEMMONS  
CPT, LG  
Commanding

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E8 EOD Range  
798th Ordnance Company  
IED Disruption Training

Blast Pit  
CA 0837 8407





E5

E8

450m Radius

CP

E8 789th EOD Emergency  
Response demolition Op's

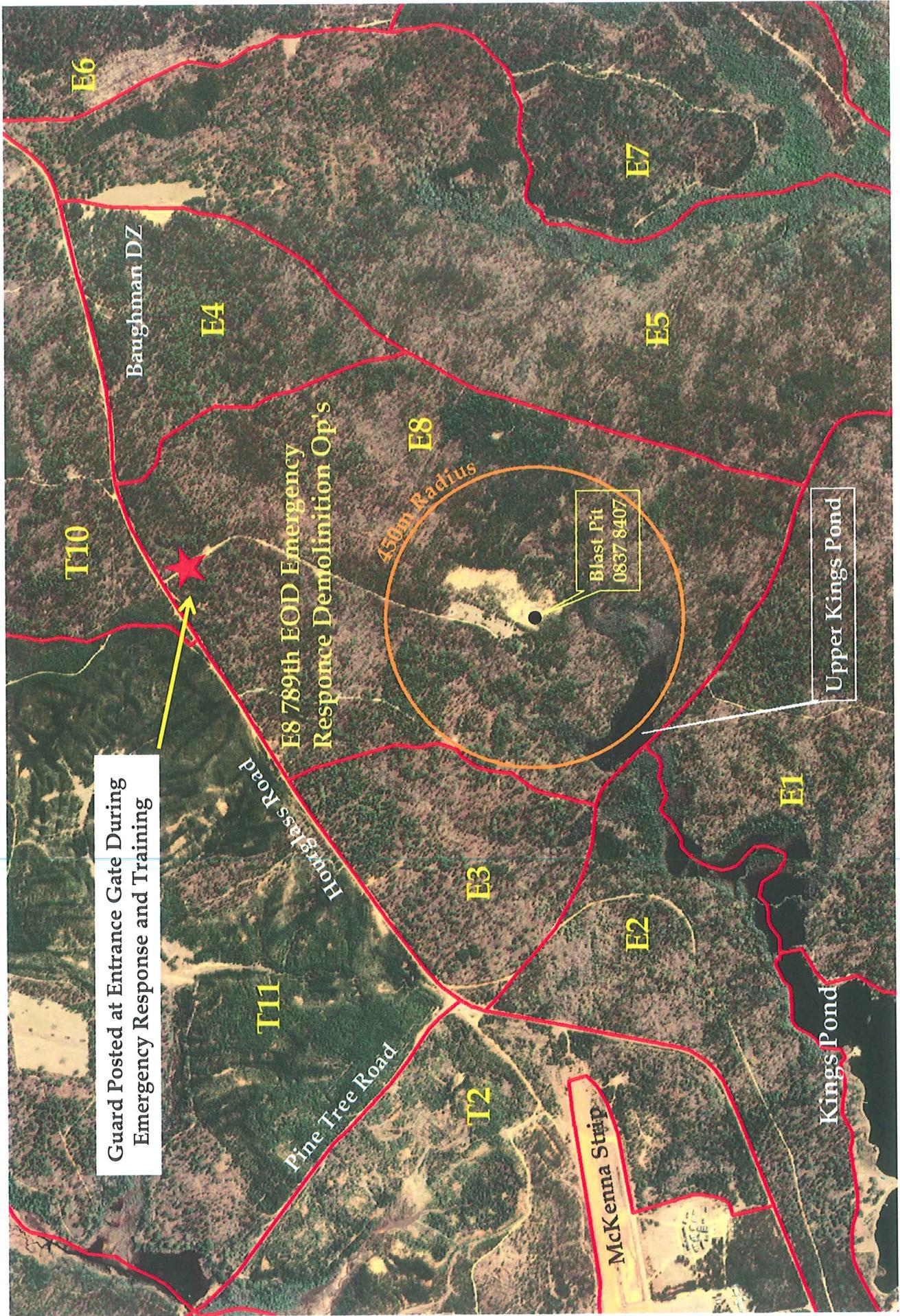
Blast Pit  
0837 8407

Upper Kings Pond

E1

E2

E3



Guard Posted at Entrance Gate During  
Emergency Response and Training

E8 789th EOD Emergency  
Response Demolition Op's

450m Radius

Blast Pit  
0837 8407

Upper Kings Pond

Kings Pond

E6

E4

E7

E5

E8

T10

T11

E3

E1

E2

T2

Baughman DZ

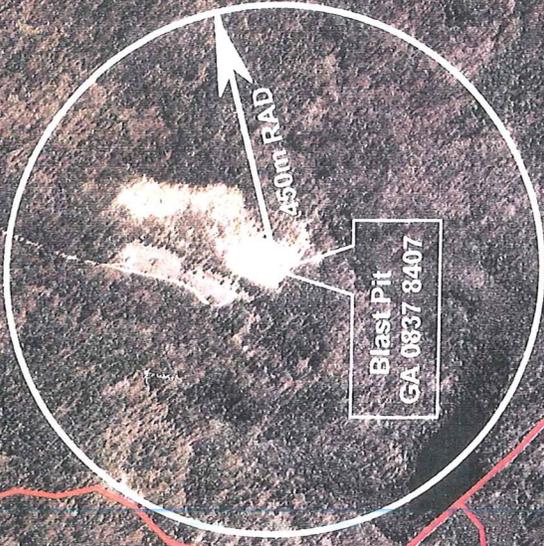
Horselass Road

Pine Tree Road

McKenna Strip

Baughman DZ

E8 EOD Range  
798th Ordnance Company  
IED Disruption Training



Blast Pit  
GA 0837 8407

(08.5 102)  
1,476' 4 17/32"  
100 NEW = 1522'  
Table 8-32

Hourglass Rd

Pine Tree Rd

# COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK: Demolition Operations  
 2a. DTG BEGIN: 14 0000 Feb 2013  
 2b. DTG END: 13 0000 Feb 2014  
 3. DATE PREPARED (YYYYMMDD): 20130214  
 4. PREPARED BY: Swartz

a. LAST NAME: Swartz  
 b. RANK: Staff Sergeant  
 c. POSITION: Platoon Sergeant

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
DEMOLITION OPERATIONS	PREMATURE DETONATION OF EXPLOSIVES	High	PROPER TEST BURN OF TIME FUSE	Moderate	All Demolition operations will be conducted IAW 60A-1-1-31	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
			INSPECTION BY TEAM LEADER OF FUSE LENGTHS	Moderate	All Demolition Operation will be in accordance with 60A-1-1-31	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
			CONTROL OF FUSE IGNITORS	Moderate	All Demolition Operation will be in accordance with 60A-1-1-31	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
			CONTROL OF BLASTING MACHINE	Moderate	All Demolition Operation will be in accordance with 60A-1-1-31	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	

13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (CHECK ONE)  
 Low  
 Moderate  
 High  
 Extremely High

14. RISK DECISION AUTHORITY:  
 Low  
 Moderate  
 High  
 Extremely High

a. LAST NAME: Phillips  
 b. RANK: Lieutenant Colonel  
 c. DUTY POSITION: COMMANDER, 192D OD BN (EOD)  
 d. SIGNATURE: 

ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
			CONTROL AND INSPECTION OF BLASTING CAPS AND FIRING WIRE TO INCLUDE SHUNTING AND TESTS	Moderate	All Demolition Operation will be in accordance with 60A-1-1-31	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
			USE OF SAFETY OBSERVER TO MONITOR PROCEDURES	Moderate	All Demolition Operation will be in accordance with 60A-1-1-31	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
	PREMATURE DETONATION OF BLASTING CAPS	High	CAP WORK WILL BE DONE ONLY AT THE DIRECTION OF THE TEAM LEADER	Moderate	All Demolition Operations will be conducted IAW 60A-1-1-31, 60A-1-1-22, and all other applicable publications.	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
			PROPER USE OF GROUNDING AND SHUNTING PROCEDURES	Moderate	All Demolition Operations will be conducted IAW 60A-1-1-31, 60A-1-1-22, and all other applicable publications.	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
			USE OF SAFETY OBSERVER TO MONITOR PROCEDURES	Moderate	All Demolition Operations will be conducted IAW 60A-1-1-31, 60A-1-1-22, and all other applicable publications.	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	

ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
	FLYING DEBRIS UPON DETONATION OF EXPLOSIVES	Moderate	MAINTAIN MINIMUM SAFE DISTANCE FOR EXPLOSIVES AS STATED IN 60A 1-1-4	Low	All safe areas will be selected IAW 60A-1-1-22, 60A-1-1-22, and all other applicable publications	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
	MISFIRE OF EXPLOSIVES	High	CONTROL AND INSPECTION OF FIRING SYSTEM CONTRUCTION	Moderate	All misfires will be handled in accordance with 60A-1-1-22, 60A-1-1-31, and all other applicable publications	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
			PROPER TESTING OF COMPLETE ELECTRICAL SETUPS	Moderate	All misfires will be handled in accordance with 60A-1-1-22, 60A-1-1-31, and all other applicable publications	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
			CONTROL AND INSPECTION OF DETONATING SYSTEMS	Moderate	All misfires will be handled in accordance with 60A-1-1-22, 60A-1-1-31, and all other applicable publications	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
			PROPER INSEPCION OF ALL DEMOLITIONS TO ENSURE PROPER CARE AND USE	Moderate	All misfires will be handled in accordance with 60A-1-1-22, 60A-1-1-31, and all other applicable publications	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	

ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
	PREMATURE DETONATION OF EXPLOSIVES AND BLASTING CAPS DURING MOVEMENT ON THE RANGE	High	EXPLOSIVES AND INITIATORS WILL BE SEPERATED AT LEAST 25ft AT ALL TIMES	Moderate	All demolition materials will be stored and transported IAW 60A-1-1-22 and all other applicable publications	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
			EXPLOSIVES WILL SECURED IN AN APPROVED CONTAINER UNTIL NEEDED	Moderate	All demolition materials will be stored and transported IAW 60A-1-1-22 and all other applicable publications	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
RANGE OPERATIONS	HEAT INJURY	High	ADJUSTMENT OF WORK / REST CYCLES ACCORDING TO THE HEAT CATEGORY	Moderate	TEAM LEADER WILL SUPERVISE THIER RANGE OPERATIONS	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
			PRIOR HEAT CASUALTIES WILL BE IDENTIFIED PRIOR TO RANGE OPERATIONS	Moderate	TEAM LEADER WILL SUPERVISE THIER RANGE OPERATIONS	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
			ENSURE ALL PERSONNEL ARE DRINKING A MINIMUM OF 1 QUART OF WATER PER HOUR	Moderate	TEAM LEADER WILL SUPERVISE THIER RANGE OPERATIONS	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	

ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
			A DESIGNATED COMBAT LIFESAVER WILL BE ON STANDBY TO TREAT AND SUSPECTED HEAT CASUALTIES	Moderate	TEAM LEADER WILL SUPERVISE THIER TEAM DURING RANGE OPERATIONS	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
	MINOR INJURY	Moderate	A SAFETY BRIEF WILL BE CONDUCTED PRIOR TO RANGE OPERATIONS	Low	TEAM LEADER WILL SUPERVISE THIER TEAM DURING RANGE OPERATIONS	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
	INSECT/SNAKE BITES	Low	PERSONNEL WITH ANY ALLERGIES TO INSECTS WILL BE IDENTIFIED PRIOR TO RANGE OPERATIONS	Low	SAFETY BRIEF ON LOCAL WILD LIFE WILL BE CONDUCTED PRIOR TO RANGE OPERATIONS	TEAM LEADER WILL SUPERVISE ALL PERSONNEL ASSIGNED TO HIM FOR THE DURATION OF THE RANGE	
	INCLEMENT WEATHER	Moderate	RANGE OIC AND NCOIC WILL MONITOR RANGE CONTROL RADIO FOR WEATHER UPDATES.	Low	IF WEATHER DETERIORATES OR LIGHTNING STRIKES WITHIN 5 MILES ALL EOD OPERATIONS WILL HALT AND RANGES WILL BE PLACED ON CHECK FIRE UNTIL WEATHER HOLD LIFTS.	RANGE OIC/NCOIC WILL BE RESPONSIBLE FOR MONITORING RANGE CONTROL NET AND IMPOSING CHECK FIRE.	



**IMCOM**  
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# RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



Date Submitted: 9/4/2012

EMD Number: 1224821

Project#: N/A

Project Title: Emergency Destruct Training

Description of proposed action:

EOD Personnel will be training with EOD Tools, equipment, and High Explosives. EOD Personnel will also use this area to destroy DUD Munitions using high explosives. (See attached for more details)

Project Location:

E8 (EOD Range)

Amount, Description, Location of Disturbance/Digging:

None

Number of Personnel:

Approx 25

Type of Ammunition:

High Explosives (C4,  
Blasting Caps) Live

Number/Types of Trees:

None

Size of Project Area:

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

Proponent: James Swartz

706-545-7117

Organization/Unit: 789th OD CO (EOD)

Number/Types of Vehicles:

Number of vehicles: 5  
Types of vehicles: M1907A2  
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."

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**REC APPROVED THROUGH 30 SEPTEMBER, 2013**

Cultural Resources - Archeological

Conditions:

Edward Howard (706 545 1898), 9/4/2012

See attached JPEG map (E8 (EOD Range).jpg) for reference. The project area contains federally protected sensitive sites. These sites may or may not be marked with Siebert stakes placed 20 - 30 meters apart which contain labels warning against ground disturbance. Training may be conducted in these sites so long as it does not disturb the ground (digging, off-road vehicle traffic, etc.) The project OIC is responsible to insure the sites are not disturbed, regardless of whether or not they are marked. They are identified in RED in the attached maps. Additionally, if endangered plants, historic artifacts or Native American artifacts (arrowheads, etc) are encountered here (as in anywhere on the Installation) their removal constitutes theft as well as possible violation of other federal laws. This could result in criminal prosecution. Contact CRM with any questions or concerns. Resubmittal is required if submitted project is modified in any way.

Natural Resources - RCW

Conditions:

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

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

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CWA - Training

Conditions:

Leah Ropski (706 626 0492), 9/5/2012

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

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

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

SPECIAL NOTE: See attached Unit/Activity SOP for Training and Deployment and Refueling documents with recommendations during training exercise. For refueling, maintenance and/or hazardous material/waste storage areas - recommended a distance of approximately 100 (30 meters) from any water ways.

Hazardous Materials/Waste

Conditions:

Ted Williams (706 545 7579), 9/5/2012

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.

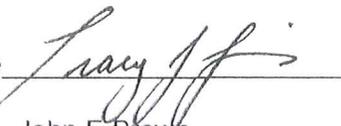
Contain and clean up any spill according to guidance provided by the Environmental Programs Management Branch. Contact POC for additional guidance for proper waste management.

Noise

Conditions:

Ellis Leeder ( 706 545 2400), 9/5/2012

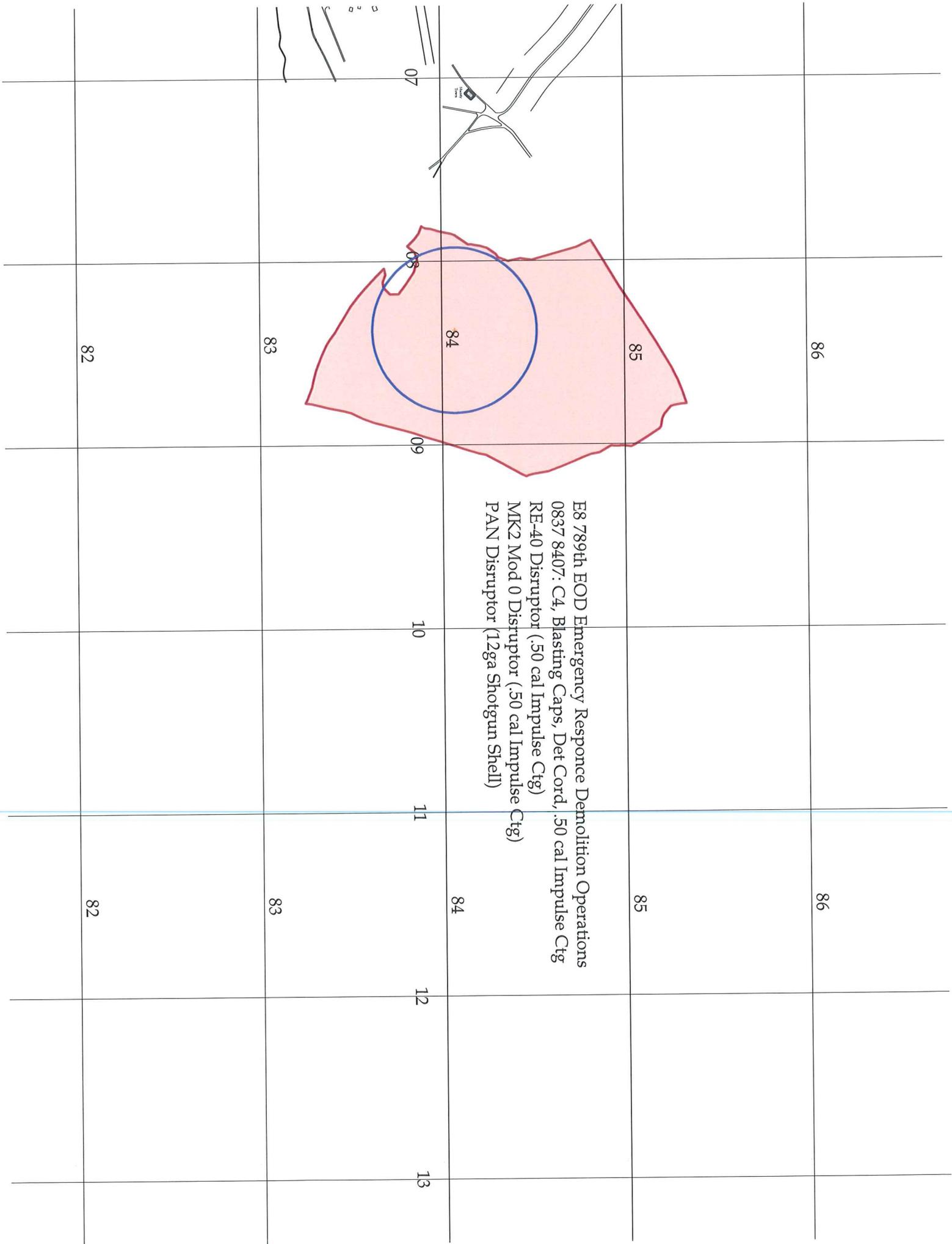
As per E8 SOP and E8 EOD submitted for weapon use of the 789th. This is training operations that must be conducted. If there is any noise complaints received, the Environmental Management Division Installation Operational Noise Monitoring Program (IONMP) and or Public Affairs Office (PAO) programs will investigate and then recommending operational noise mitigation actions to the appropriate personnel for the training actions. In accordance with the Army's policy on environmental noise management, all efforts shall be made to minimize noise annoyances to the highest extent practicable with training operations without interfering with the proposed missions. Please follow the fly friendly program avoiding no fly zones. Please follow good smoke management practices not allowing smoke or dust to travel off Installation boundary into public areas or roads. Please increase distance between vehicles when dust conditions are extreme, see Table 5-3. CS gas use should be utilized in designated areas only, contact Range Control for a listing of approved sites. If any assistance or a copy of MCoE Regulation 350-19 or the IONMP noise plan is needed for review, please feel free to contact Ellis Leeder at 706.545.2400 or email ellis.p.leeder.civ@mail.mil or visit the Range Control Website for the updated version of MCoE Regulation 350-19

Signature   
for John E Brown  
NEPA Program Manager

Date 7 SEP 2012

Signature   
Christopher E. Hamilton, PhD  
EPMB Chief

Date 7 Sept 12



E8 789th EOD Emergency Response Demolition Operations  
0837 8407: C4, Blasting Caps, Det Cord, .50 cal Impulse Ctg  
RE-40 Disruptor (.50 cal Impulse Ctg)  
MK2 Mod 0 Disruptor (.50 cal Impulse Ctg)  
PAN Disruptor (12ga Shotgun Shell)

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