

**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: 03 March 2014  
Range: Ware Range  
Title: OSUT Gunnery  
Problem No:

Log 11-05-13

THRU: 194th AR BDE  
Fort Benning, GA. 31905

FROM: S3, 5-15 CAV, 194th AR BDE  
Fort Benning, GA. 31905

**SECTION I, TYPE OF TRAINING**

a. Live Fire       b. Non-live Fire      CPI/Controller Coordinates: Tower 0963 9728

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

Coordinates	Type	Model/DODAC	Size of Charges
N/A	N/A	N/A	N/A

**SECTION III, WEAPONS/AMMUNITION REQUESTED**

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

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

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

<input checked="" type="checkbox"/> Scenario of training to be conducted:	Training area(s) to be occupied:
<input checked="" type="checkbox"/> Sketch of area:	
<input checked="" type="checkbox"/> Risk Assessment:	<input type="checkbox"/> Scenario of training to be conducted:
<input type="checkbox"/> Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:	<input type="checkbox"/> Sketch of area(s) to be occupied:
	<input type="checkbox"/> Risk Assessment:

Name/rank of requesting officer:

Davis, Michael SFC.

*Michael Davis*

Name/rank of Major Unit S3/Commander:

Lichtenyer, Daniel MAJ.

*[Signature]*

**SECTION VI, FOR RANGE DIVISION USE**

DATE: 19 MARCH 2014

TO: 5-15 CAV, 194th AR BDE  
Fort Benning, GA. 31905

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

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

K: 5, 12, 14, 15, 16A, 16B, 17, 41, 44, 47.    O: 9, 18.

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

*Prof S. Tar*



**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

17 March 2014

MEMORANDUM FOR Commander, 5<sup>th</sup> Squadron, 15<sup>th</sup> Cavalry Regiment, 194<sup>th</sup>  
Armored Brigade, Fort Benning, GA 31905

SUBJECT: 5/15<sup>th</sup> CAV One Station Unit Training (OSUT) Live Fire on Ware range  
Scenario and RMW Safety Review

1. References.

- a. Army Regulation 385-10, The Army Safety Program, 27 November 2013
- b. Army Regulation 385-63, Range Safety, 30 January 2013
- c. Department of the Army Pamphlet 40-501, Hearing Conservation Program, 10 December 1998
- 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 30 January 2013
- g. MCoE Regulation 350-19, Range and Terrain Regulation, 01 March 2013
- h. MCoE Policy Memorandum 385-6-14, Composite Risk Management, 15 December 2010
- i. MCoE Policy Memo 385-63-7, Use of Steel Target in Marksmanship Training, 27 March 2013.

2. Document received on 10 March 2014.

3. Concur w/comment.

- a. Laser usage identified in concept of operations, however not identified on FB FORM 350-19-1-E-R, as part of the Firing/Non-firing Data.

ATZB-SO

SUBJECT: 5/15<sup>th</sup> CAV One Station Unit Training (OSUT) Live Fire on Ware range Scenario and RMW Safety Review

b. Scenario, paragraph 3, pg 2. Safety in mentioning of laser usage and safety briefs, however missing duties and responsibilities of the laser safety officer; separate from the OIC/RSO as identified in AR 385-10.

c. Annual Risk Management Worksheet (RMW) under Hazards:

- "Vehicle/Soldier Collision", recommend that you modify the Initial Risk Level (Block 7) to "High" and the Residual Risk Level (Block 9) to "Moderate". Add "Individual" to Block 11, under how to supervise.

- "Unlatched hatch covers could swing and injure Soldiers", recommend adding to Block 8, "No movement will be executed without all hatches either latched open or closed as required".

- "Laser Usage", recommends change Initial Risk Level (Block 7) to "Moderate". You must add controls that the Laser Safety Officer/NCO will implement on site to reduce the hazard.

- Nowhere in the Risk management Worksheet are "Cold Weather Injuries" and "Fatigue" addressed. Due to the length of the RMW, twelve months, and the extended training day schedule for firing, these issues must be addressed.

4. Point of contact is Mr. Michael W. Risher, 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).

  
JILL E. CARLSON  
Director, MCoE/USAG Safety

**Ware Range, 194th, 5-15 CAV OSUT Gunnery (Log #11-5-13) Weapons/Ammo And Target List**

<b>Firing Positions</b>	<b>Weapons</b>	<b>Ammunition</b>	<b>Left Limit, Mils Grid Azimuth</b>	<b>Right limit, Mils Grid Azimuth</b>
Left 1/3 of Baseline 0968 9735 to 0968 9731	BFV M242 M240C	25mm M793/M910 7.62mm Ball/Tracer	1345 1350	1925 2090
Center 1/3 of Baseline 0968 9731 to 0968 9728	M240B M249	7.62mm Ball/Tracer 5.56mm Ball/Tracer	1270 1270	1970 1970
Right 1/3 of Baseline 0968 9728 to 0968 9724	M2	.50 cal Ball/Tracer	1290	1865
BP1 0970 9723	M242 M240C M2	25mm M793/M910 7.62mm Ball/Tracer .50 cal Ball/Tracer	1265 1210 1265	1825 1820 1825
BP2 0970 9720	M242 M240C M2	25mm M793/M910 7.62mm Ball/Tracer .50 cal Ball/Tracer	1245 1150 1245	1805 1775 1805

<b>Firing Positions</b>	<b>Weapons</b>	<b>Ammunition</b>	<b>Targets</b>
Left 1/3 of Baseline 0968 9735 to 0968 9731	BFV M242 M240C	25mm M793/M910 7.62mm Ball/Tracer	201-225 M1, M2 C1-C7
Center 1/3 of Baseline 0968 9731 to 0968 9728	M240B M249	7.62mm Ball/Tracer 5.56mm Ball/Tracer	C1-C7 C1-C7
Right 1/3 of Baseline 0968 9728 to 0968 9724	M2	.50 cal Ball/Tracer	201, 203-225, M1, M2.
BP1 0970 9723	M242 M240C M2	25mm M793/M910 7.62mm Ball/Tracer .50 cal Ball/Tracer	201, 203-225, M1, M2 C1-C3, C5-C7 201,203-225, M1, M2
BP2 0970 9720	M242 M240C M2	25mm M793/M910 7.62mm Ball/Tracer .50 cal Ball/Tracer	201, 203-225, M1, M2 C1-C3, C5-C7 201,203-225, M1, M2



REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
HEADQUARTERS, 5<sup>TH</sup> SQUADRON, 15<sup>TH</sup> CAVALRY REGIMENT  
WHEELLOCK HALL, BLDG. 4318  
7226 2<sup>ND</sup> CAVALRY REGIMENT STREET  
FORT BENNING, GEORGIA 31905

ATZK-BAE

07 November 2013

MEMORANDUM FOR RANGE CONTROL

SUBJECT: One Station Unit Training Live Fire Scenario

1. The following request outlines the request of 5<sup>th</sup> Squadron 15<sup>th</sup> Cavalry Regiment to conduct live fire exercises that incorporates two M249 SAW machine guns fired from the bipod or tripod position Center 1/3 sector of the firing line (baseline) at target list see attachment. The M2/A1 .50 Caliber machine gun mounted on the HMMWV will be fired from Right 1/3 sector of the firing line (baseline) at target list see attachment. The M240B will fire from Center 1/3 sector of the firing line (baseline) at target list see attachment. BFV's will fire from Left 1/3 sector of the firing line (baseline) at target list see attachment. BFV's and HMMWV's with either M240B machine gun or .50 caliber machine gun mounted can be fired from BP1 and BP2 at the appropriate target list see attachment. **At no time will the firing line (baseline) and BP1 & BP2 fire simultaneously. BP1 and BP2 will not be occupied when firing from the baseline.** The Long Range Advance Scout Surveillance System (LRAS) trucks will be use in conjunction with the live fire exercise that incorporate a Call for Fire mission; vehicle position will be marked by the Master Gunner in the wood line behind the firing line (baseline) or make use of BP1 & BP2 in the down / defilade position ONLY. CFF station 1 and 2 will communicate by radio with the tower to complete this task on targets greater than 1700 meters. This exercise will be conducted on Ware Range as a part of the 19D POI requirement.

2. Scheme of maneuver:

a. (Phase 1) Gunnery exercise will be a setup day consisting of Bradley Fighting Vehicle movement to the range by HETT, Cadre members will then download the BFV's and move the Bradley's to BP1 and BP2. The BFV's hull and turret will be oriented on the left range fan. All tracks and bolts will be lubricated, perfire checks, and bore sight procedures will be completed and a green flag (weapons clear) will be displayed. The Master Gunner will verify emplacement of each vehicle on the firing line. The HMMWV's will road march to the range by cadre members and will be placed on the right side of the baseline (firing line) and then mount the weapon on top of the vehicles. The vehicles will then be secured and a guard force will be emplaced. All weapon systems will be clear with no ammo in the vehicles. Phase ends once the unit setup is complete, unit may start phase 2.

b. (Phase 2) The warriors will be transported to the range via bus and will receive a Safety Briefing and a Conduct of the Range Brief by the RSO. The non-firing platoons will be

ATZK-BAE

SUBJECT: 5<sup>th</sup> Squadron, 15<sup>th</sup> Cavalry Light Scout Gunnery SOP

range support. Range support will issue weapons, break down ammo, move weapons on and off the range once cleared by RSO and police up the range. Ammunition will be broken down and ready for pick up. Weapons will not be loaded until vehicle is in the firing position and after the command is given.

c. Once a hot status has been given, the firing platoon will cycle through four stations. The M249 SAW, M240B, M2/A1 Machine Gun, and the BFV. The firing platoons will don the proper uniform for the vehicle they will be firing, file through the ammo pad, and receive their ammunition. The fires will receive 100 rds of 5.56mm link ammunition for day fire and 50 rds for night fire. The M249 will use targets the targets on target list using the center 1/3 sector of the (firing line) baseline.

d. The fires will receive 200 rds of 7.62mm link and 200 rds of .50 cal for day fire and 100 rds of 7.62mm link and 100 rds of .50 cal for night fire using PAS13. Once the Warriors have moved to their firing vehicles, the cadre members will instruct and supervise them through the loading process and changing barrels as necessary. When the platoon of 240B fires is complete with AAR; they rotate to the .50 cal machine gun. The M240B center 1/3 sector of baseline and M2/A1 MG right 1/3 sector of baseline or BP1 and BP2 will utilize targets on target list.

e. They then move as a platoon to the last station; BFV. As a group, BFV fires will receive 210 rounds of 25MM and 400 rounds 7.62mm link per four fire's for day and night fire. BFV's firing from the left 1/3 sector of baseline or BP1 and BP2. Once each platoon finishes all four stations, they will swap rolls with the platoon in support. The Warriors will receive a Safety Briefing and a Conduct of the Range Brief by the RSO. The non firing platoon will swap rolls with the firing platoon and perform the same process as the day prior. All weapons system must remain up and down range at ALL times. The appropriate fire commands will be given by the Cadre and proper response terms will be given by the Warriors during the dry and live fire portion of gunnery.

f. (Phase 3) Once all firing is complete and the training objective has been accomplished, all weapons will be cleared each day by the RSO. At this time the range clearing procedures will begin so the unit can clear the range and all vehicles will be moved to the next training site.

### 3. Safety

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

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

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

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

**Medical:** 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 MCoE 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.

**Ammunition:** There will be no de-linking or re-linking of any ammunition. Any ammunition that has been de-linked or re-linked is considered nonstandard and is prohibited from the range.

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

**Ammo Point:** The ammo point NCO will control the issue and retrieval of all ammunition. All ammunition (blank, live, HE, TP-T, etc...) will be marked and physically separated within the ammo point (or separate ammo points) and signed by the ammo NCO.

**Voice:** Primary means of signaling cease fire will be FM communication. Alternate signal will be colored smoke/star cluster. Emergency cease fire signal will be RED SMOKE/ Air-horn. All signals will be included in the initial safety briefing. Anyone observing any unsafe act can call for a Cease Fire.

ATZK-BAE

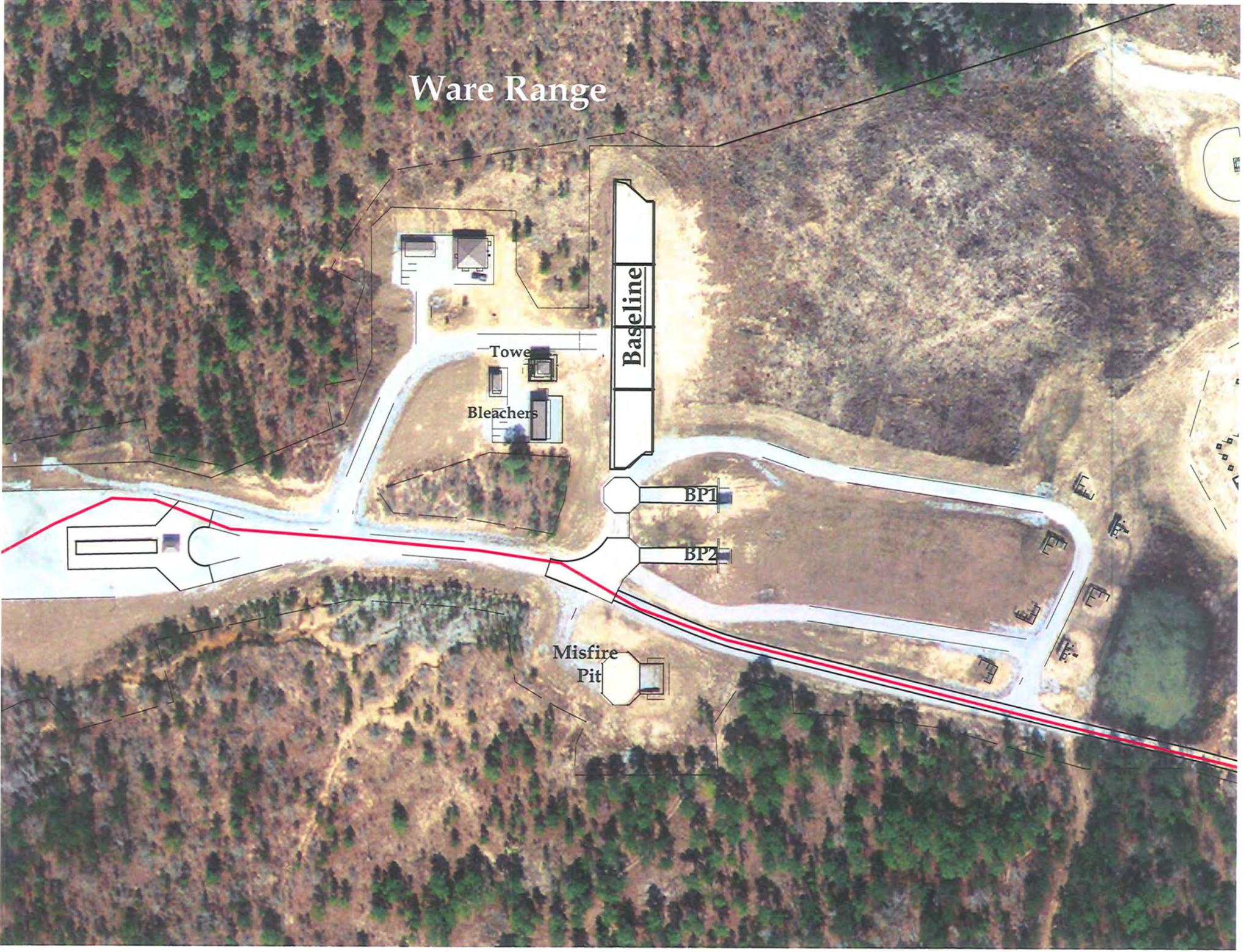
SUBJECT: 5<sup>th</sup> Squadron, 15<sup>th</sup> Cavalry Light Scout Gunnery SOP

4. The point of contact for this action is SFC Davis, Michael D., HQ, 5<sup>TH</sup> Squadron, 15<sup>TH</sup> Cavalry Master Gunner at (706) 626-4123 or at [michael.d.davis146.mil@mail.mil](mailto:michael.d.davis146.mil@mail.mil).

A handwritten signature in black ink, appearing to read "Daniel W. Lichlyter". The signature is stylized with a large, sweeping flourish that extends to the right and loops back under the name.

DANIEL W. LICHLYTER  
MAJ, AR  
Executive Officer

# Ware Range



Tower

Bleachers

Baseline

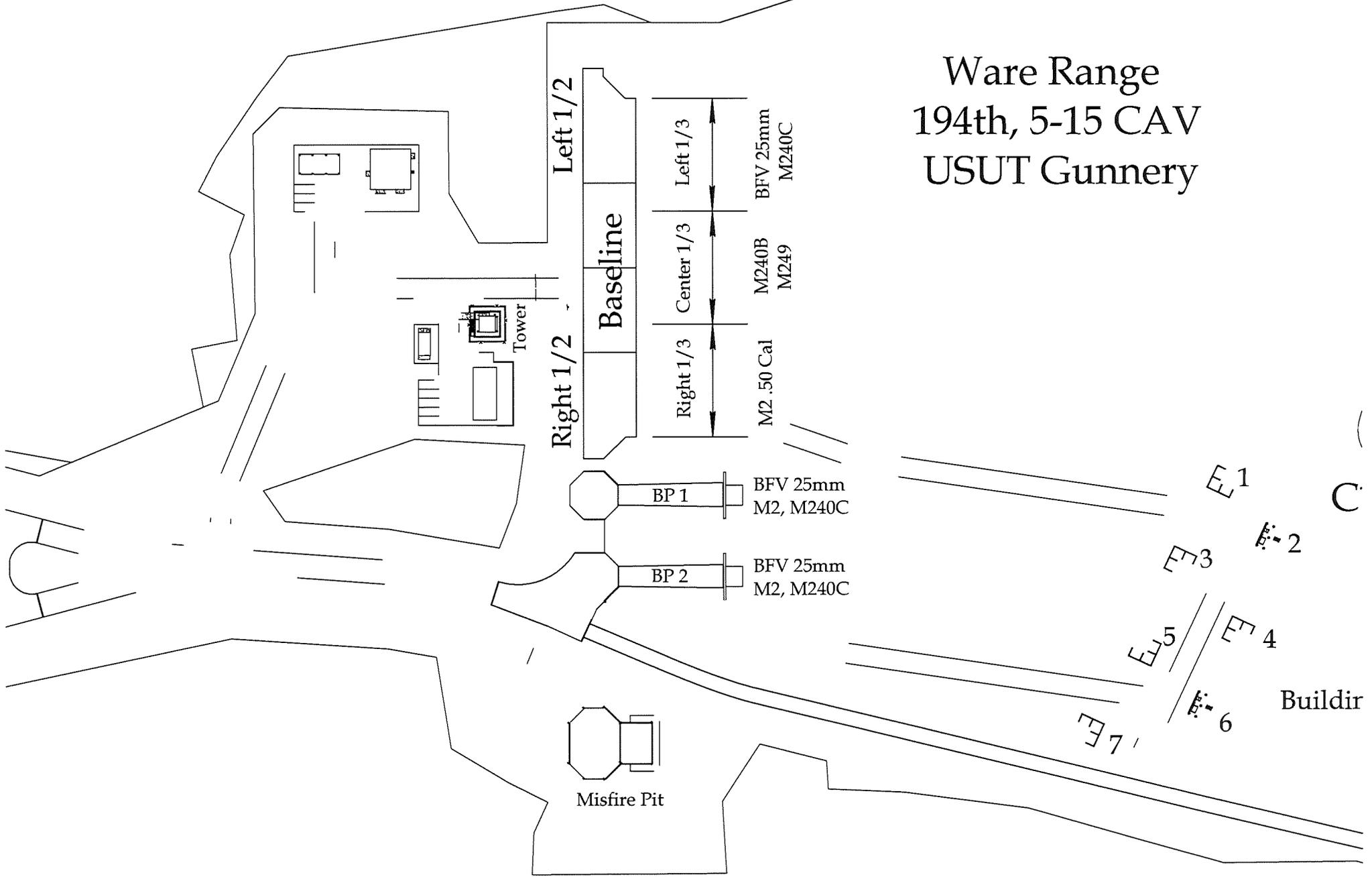
BP1

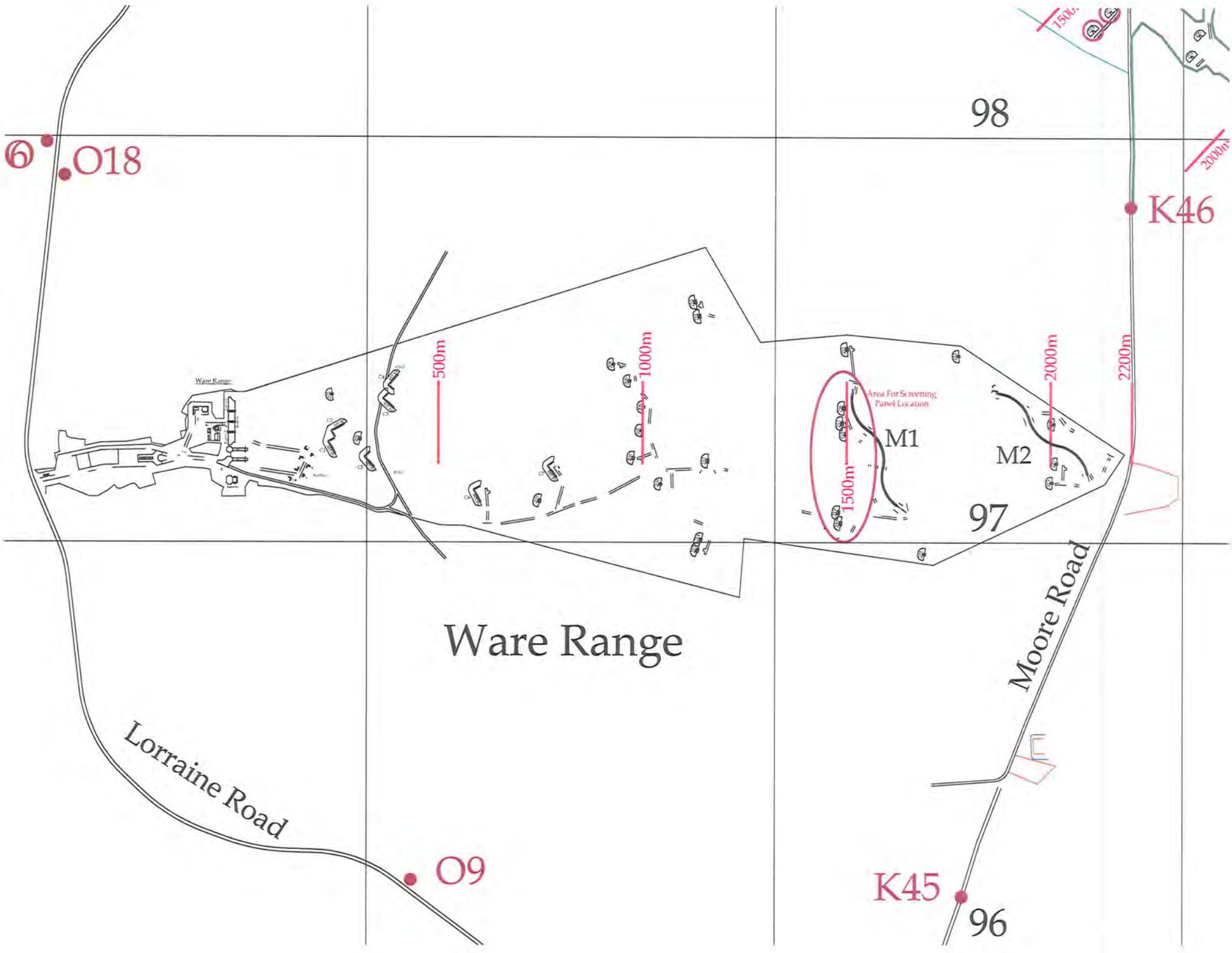
BP2

Misfire Pit

# Ware Range

Ware Range  
194th, 5-15 CAV  
USUT Gunnery





## Ware Range 194th, 5-15 CAV OSUT Gunnery (Log #11-05-13) Roadblocks 01 March 2013

#	GRID	LOCATION	TYPE	#	GRID	LOCATION	TYPE
K-2	GA 163 883	Across Box Springs Rd 125m N. of its intersection with Buena Vista Rd.	Gate	K-26	GA 201 949	Across Boundry Road 1800m S of its intersection with Turrentine Road	Gate
K-3	GA 153 894	Across entrance road leading to Concord OP 250m N. of its intersection with Buena Vista Rd.	Gate	K-27	GA 207 968	Across Turrentine Rd 600m E. of its intersection with Boundary Rd.	Gate
				K-28	GA 191 885	Across Whitson Rd 15m W. of its intersection with Cactus Rd.	Gate
K-5	GA 117 920	Across Shamanski Rd 25m N. of its intersection with Buena Vista Rd.	Gate	K-29	GA 189 888	Across un-named trail on left side of Cactus Range 300m W of Cactus Road	Gate
K-7	GA 109 937	Across Moore Rd 15m N. of its intersection with Bullseye Rd.	Cable	K-30	GA 190 890	Across un-named trail on right side of Cactus Range 250m W of Cactus Road.	Gate
K-8	GA 099 947	Across Bulls Eye Rd 50m E of its intersection with Lorraine Road.	Gate	K-32	GA 192 915	Across Shamanski Road 35m W of its intersection with Cactus Rd.	Gate
K-9	GA 103 921	Across Buena Vista Rd 40m E of the intersection with Moore Rd (Road Guard Location)	Gate	K-36	GA 163 883	Across Buena Vista Rd 50m W. of its intersection with Box Springs Rd. (Road guard location).	Gate
K-9A	GA 106 919	Across tank trail 200m W of the Upatoi Creek ford site.	Gate	K-36A	GA 163 882	Across Tank Trail 50m W. of its intersection with Box Springs Rd.	Gate
K-10	GA 118 920	Across Buena Vista Rd at K-5 road block.	Gate	K-38	GA 201 941	Across unnamed trail 35m W. of its intersection with the east boundary road. Permanently closed.	Gate
K-11	GA 105 927	Across Moore Rd 20m N. of its intersection with Audernarde Trail. Entrance to Terry Demo Rng. (Road guard location)	Gate	K-39	GA 202 949	Across unnamed trail 15m W. of its intersection with the east boundary road. Permanently closed.	Gate
K-12	GA 104 988	Across Old Lorraine Road 600m S of the tower on Brooks Range.	Gate	K-40	GA 174 908	Across Box Springs Rd 30m S. of Pine Knot Creek.	Gate
K-13	GA 112 943	Across Moore Rd 680m N. of its intersection with Bullseye Rd.	Gate	K-41	GA 192 944	Across Kennesaw Trail 30m W. of its intersection with Box Springs Rd.	Gate
K-14	GA 113 998	Across Moore Rd 10m S. of its intersection with Lorraine Rd.	Gate	K-42	GA 193 944	Across Box Springs Rd 10m N. of its intersection with Cactus Rd.	Gate
K-15	GA 114 999	Across course road leading out of Ruth Range 50m E. of its intersection with Moore Rd.	Gate	K-43	GA 203 978	Across the northern boundary range road approx 20m N-W. of the old Hastings Range upper baseline.	Gate
K-16	GB 190 003	Across Rinehart Rd 130m W. of its intersection with Box Springs Rd.	Gate	K-44	GA 113 955	Across Moore Rd on the N. side of Carmouche Range maneuver box.	Gate
K-16A	GA 172 989	Across Rinehart Rd 20m S. of its intersection with the northern boundary range road.	Gate	K-45	GA 115 961	Across Moore Rd 300m S. of its intersection with the old Ware Range course road.	Gate
K-16B	GA 171 990	Across un-named trail 20m S. of its intersection with the northern boundary range road.	Gate	K-46	GA 119 979	Across Moore Rd 725m S. of its intersection with Americo Trail	Gate
K-17	GB 116 013	Across unnamed trail 15m E. of Moore Rd and 300m N. of Ruth Range tower.	Gate	K-47	GA 176 963	Across Turrentine Rd 1000m W. of mover 4 on Hastings Range	Gate
K-19	GB 121 023	Across unnamed trail 220m N-E. of Oscar Range Complex Road and 30m S of the northern boundary range road.	Gate	K-50	GA 195 988	Across Box Springs Rd 60m N. of its intersection with the northern boundary range road.	Cable
K-20	GB 141 021	Across unnamed trail 550m S of the northern boundary range road.	Cable	O-9	101 962	600m N of Carmouche Rng on right side of Lorraine Rd	Gate
K-21	GB 139 027	Across the northern boundary range road Aprox 250m East of Cox Creek bridge.	Gate	O-18	093 979	800m N of Ware Rng Entrance on right side of Lorraine Rd	Gate

### COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK OSUT Gunnery	2a. DTG BEGIN 070800Mar2014	2b. DTG END 060800Mar2015	3. DATE PREPARED (YYYYMMDD) 20140307
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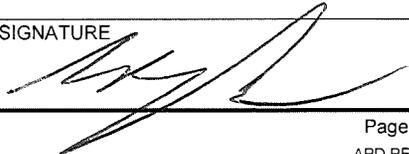
4. PREPARED BY		
a. LAST NAME Davis	b. RANK SFC	c. POSITION Squadron Master Gunner

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?
	Mounting and exiting the vehicles	M	SM will mount vehicle through rear driver side door and exit through rear passenger door.	L	CIs, RSO and Drill Sergeant will ensure SM exit vehicles correctly.	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre, Individual	
	Vehicle/Soldier Collision	M	Max 5 mph when Soldiers in area Ground guides visible in BIV sites Conduct Rollover Drills, TC's up when moving 360 degrees scan, TC's account for all Soldiers	L	TM 9-2320-280-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre	
	Vehicle Rollover	H	Use two ground guides, drivers use safety belts. Only cadre will drive vehicles when loading.	M	TM 9-2350-252-10 TM 9-2320-280-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre	
	Cookoff of live round from coax machine gun could kill or injure Soldiers.	H	If machine gun is hot, do not inspect tray, remove ammo and clear Soldiers from the area and wait 15 minutes before clearing the weapon system.	M	TM 9-2320-280-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre	
	UXO/Debris on Range	M	RSO will conduct safety brief and include the non handling of range debris and UXO that could be found on the range. RSO/OIC marks and reports all UXO found to range control.	L	Cdr's Inbrief BR-1 TSP	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre, Individual	
	Soldiers Smuggling Brass and Ammo off of the range.	M	All Soldiers briefed that they cannot take ammo or brass off of the range. Turn in weapons to Holder overnight. Cadre conducts "shakedown" prior to leaving the range.	L	Cdr's Inbrief BR-1 TSP BDE SOP on AA&E	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre	

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

13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check one)

LOW
  MODERATE
  HIGH
  EXTREMELY HIGH

14. RISK DECISION AUTHORITY			
a. LAST NAME BIRMINGHAM, MICHAEL	b. RANK LTC	c. DUTY POSITION 5th Squadron 15th CAV REGT, 194th AR BDE Squadron Commander	d. SIGNATURE 

## ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
	Unlatched hatch covers could swing and injure Soldiers.	M	Make sure gunner's covers are latched and secured properly.	L	TM 9-2320-280-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre	
	Accidental firing can kill or injure soldiers.	H	Take care to ensure weapons on safe when loaded and cleared properly when not in use.	M	TM 9-2320-280-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre, Individual	
	Mixing barrel assembly and bolt assembly of the machine gun may kill or injure Soldiers.	H	Do not interchange barrel assembly or bolt assembly from one machine gun to another unless approved by the unit armor. Barrels will be assigned to each weapon system.	M	FM 3-22.68 TM 9-1005-347-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre	
	A runaway weapon can kill or injure a soldier. Reloading a runaway weapon can kill or injure a Soldier.	H	Always keep machine gun pointed down range. Never reload it until it is repaired. Be sure weapon is cleared before removing it from vehicle/tripod mount.	M	FM 3-22.68 TM 9-1005-347-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre, Individual	
	A hot gun can kill or injure a Soldier.	H	If 200 rounds were fired within a 2 minute period do NOT open the cover. Wait 15 minutes before clearing the weapon system.	M	FM 3-22.68 TM 9-1005-347-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre, Individual	
	Any machine gun barrel improperly locked into place could cause injury.	M	Before firing, double check to make sure barrels is locked tightly in the receiver.	L	FM 3-22.68 TM 9-1005-347-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre, Individual	
	Firing any weapon on the move can cause erratic firing that could kill or injure a Soldier.	M	Firing on the move in not permitted.	L	FM 3-22.68 TM 9-1005-347-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre, Individual	
	Hot Weather Environment	H	Wet bulb checked hourly; iced sheets on site; work/rest/water consumption rate maintained; safety brief conducted on temp. and heat cat.; prior hot weather injuries marked.	M	Unit SOP AR 385-10 FM 4-25.11 GTA 05-08-012	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre	
	An M2 or M2A1 with incorrect headspace and timing can kill or injure a Soldier.	H	Headspace and timing will be checked and adjusted before firing the M2 after assembly or change of barrel. M2A1 will be turn into maintenance for correct headspace & timing.	M	FM 3-22.68 TM 9-1005-347-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre	
	A machine gun that has been in action but not cleared can kill or injure a Soldier when Soldier is in way of muzzle.	H	Clear the machine gun before anyone moves in front of the muzzle. Clearing consists of unloading the machine gun and visually inspecting weapon to ensure all rounds removed	M	Range SOP Clearing Procedures	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre, RSO	

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?
	Opening the cover of an M2 or M2A1 after use, while a cook-off occurs could kill or injure a Soldier.	H	Never open the cover on a hot loaded weapon that fails to fire. Allow to cool down before clearing.	M	TM 9-1005-213-10 TM 9-1005-347-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre, Individual	
	Placing fingers in the chamber of any weapon can cause injury to Soldiers.	M	Keep fingers out of chamber, visual inspect chamber.	M	TM 9-1005-213-10 TM 9-1005-347-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre, Individual	
	An M2 or M2A1 with ammo or with the bolt charged to the rear can kill or injure a Soldier when the backplate.	H	Do not remove backplate until the chamber is cleared. Place the bolt in the forward position. Do not charge the weapon with the backplate removed. Stand to one side when removing the	M	TM 9-1005-213-10 TM 9-1005-347-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre, Individual	
	assembly is removed from the weapon.		backplate.				
	Attempting to lift the M2 or M2A1 by the backplate in the upright position can cause the assembly to slip an	M	When lifting the M2/M2A1 by the backplate assembly, turn the weapon 90 degrees or hold by the main assembly only.	L	TM 9-1005-213-10 TM 9-1005-347-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre, Individual	
	fall on a Soldier. This could also cause the buffer spring to be released and injure a Soldier.						
	Releasing the firing pin on an M2 or M2A1 with cocking lever forward could spring back forcibly and injure hand.	M	Do not attempt to release the firing pin with cocking lever forward. Ride the bolt forward with the cocking handle.	L	TM 9-1005-213-10 TM 9-1005-347-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre, Individual	
	Weapons Malfunction during live fire.	M	RSO qualified in weapons system instructs Soldier using weapon. Master Gunner or Unit Armor on site to assess and correct serious malfunctions and prep-to-fire checks.	L	TM 9-1005-213-10 TM 9-1005-347-10	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre, Individual	
	Lightning	H	OIC/NCOIC/RSO 1. Suspend all training during electrical storms. 2. Notify Range Control, Troop and Squadron of any lightning related incident.	M	1. MCoE Reg 350-19 2. IAW 350-6-2, Standardized markings of Soldiers at risk.	Troop Commander, 1SG, Drill Sergeants, CIs, Range Cadre, Individual	
			3. Control the students. 4. Brief students on electrical storm plan and point out location to ground gear and open area to move to in the event of lightning.		3. 5-15 Cav policies and range operations. 4. Range safety brief to leaders.		

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?
	Lightning cont.		INSTRUCTIONS WILL 1. Enforce that all students ground there individual equipment and don there wet weather gear.				
			2. Brief all students, training unit personnel, and cadre on lightening dispersal area.				
	Eye and Hearing Hazards	M	Cadre and Trainees will wear Kelvar, eye protection and ear protection on the firing line while firing blank or live ammunition during gunnery.	L	IAW TR 350-6 PAM 40-506/40-501	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre, Individual	
	Laser Usage	L	Laser will not be used during gunnery.	L	Commander Guidance IAW TSP	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre, RSO, Individual	
	Cold Weather	M	Adjust uniform to fit the needs of the Soldiers based on temperature. Allow breaks for warming as needed. Warming blankets on hand as part of the duty gear.	L	Quarterly Training for all Cadre.	Drill Sergeants, Cavalry Instructors	



# RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



**Date Submitted:** 9/6/2013

**EMD Number:** 1324919

**Project#:** Unknown

**Project Title:** 19D OSUT, Basic Machine Gun, Gunnery Familiarization Fire

**Description of proposed action:**

During daylight and limited visibility hours, given Bradley Fighting Vehicle (BFV), .50 Cal machine gun, 240B machine gun mounted on stationary HMMWV and M249 ground mounted on the M192 LWGM, the AN/PAS13B(V)2. Soldiers will engage troops and truck targets down range from a stationary defensive position. There will be no land disturbance. Vehicles will remain stationary at all times during live fire with drip pans and chalk blocks down. Requesting to add Carmouche Range to EMD Number 1324919 19D OSUT, Basic Machine Gun, Gunnery Familiarization Fire - 9/10/13

**Project Location:**

Brooks, Ware, Ruth, and Carmouche Ranges

**Amount, Description, Location of Disturbance/Digging:**

None

**Number of Personnel:**

180

**Type of Ammunition:**

M793, M910, A557 .50cal A131  
7.62mm A064 5.56mm Live

**Number/Types of Trees:**

None

**Size of Project Area:** N/A

**Duration of Action:** Start: 10/1/2013 Stop: 9/30/2014

**Proponent:** SFC Davis

(706)626-4123

**Organization/Unit:** 5-15 Cav, 194th

**Number/Types of Vehicles:**

Eight (8): BFV, HMMWV – 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, 2014**

**Cultural Resources - Archeological**

**Conditions:**

Edward Howard (706 545 1898), 9/17/2013

See attached PDF maps for reference. See "Sensitive Area" signs attachment for appearance of the signs. 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. Re-submittal is required if submitted project is modified in any way.

**Natural Resources - RCW**

None

Michael Barron (706 544 7080), 9/6/2013

EMD Number: 1324919

LJO#

Project Title: 19D OSUT, Basic Machine Gun, Gunnery Familiarization Fire

**CWA - Training**

**Conditions:**

Jessica Loughman (706 604 4572), 9/13/2013

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 improper 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.

**Noise**

**Conditions:**

Ellis Leeder (706 545 2400), 9/6/2013

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. 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 noise abatement areas. 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 CS gas sites. Please visit the Range Operations website to obtain a list of approved weapons per Range or Firing Points. Leave the training areas, firing range, latrines in a clean condition; contact Range Operations if unclean conditions are found or clean up costs or cleaning endeavors by proponent could occur to last user. 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, range guidance and other materials for your range packet. This 144r must be present at the training site when occupying compartment or ranges.

**Hazardous Materials/Waste**

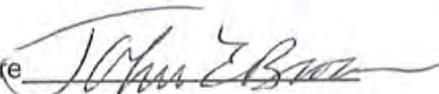
**Conditions:**

Ted Williams (706 545 7579), 9/6/2013

Appropriate precautions must be taken to prevent hazardous material spills. Have adequate quantities of spill response supplies on hand. If a spill occurs use notification procedures as outlined in the Fort Benning Hazardous Waste Management Plan. Contain and clean up spill according to guidance provided by the Environmental Protection Management Branch. Any waste generated must undergo a waste stream analysis to determine appropriate management requirements. If any hazardous waste is generated it must be managed in accordance with Federal, State, Army and Fort Benning regulations.

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. 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.

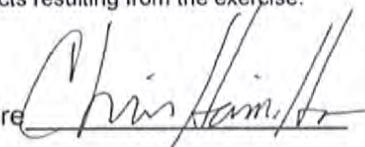
Rubbish, empty containers and other waste (including used smoke/C2 canisters) should be removed from the training area after the training is completed. Contact EPMB for detailed information on the proper disposal of waste products resulting from the exercise. Contact POC below for any questions or additional guidance.

Signature 

John E Brown

NEPA Program Manager

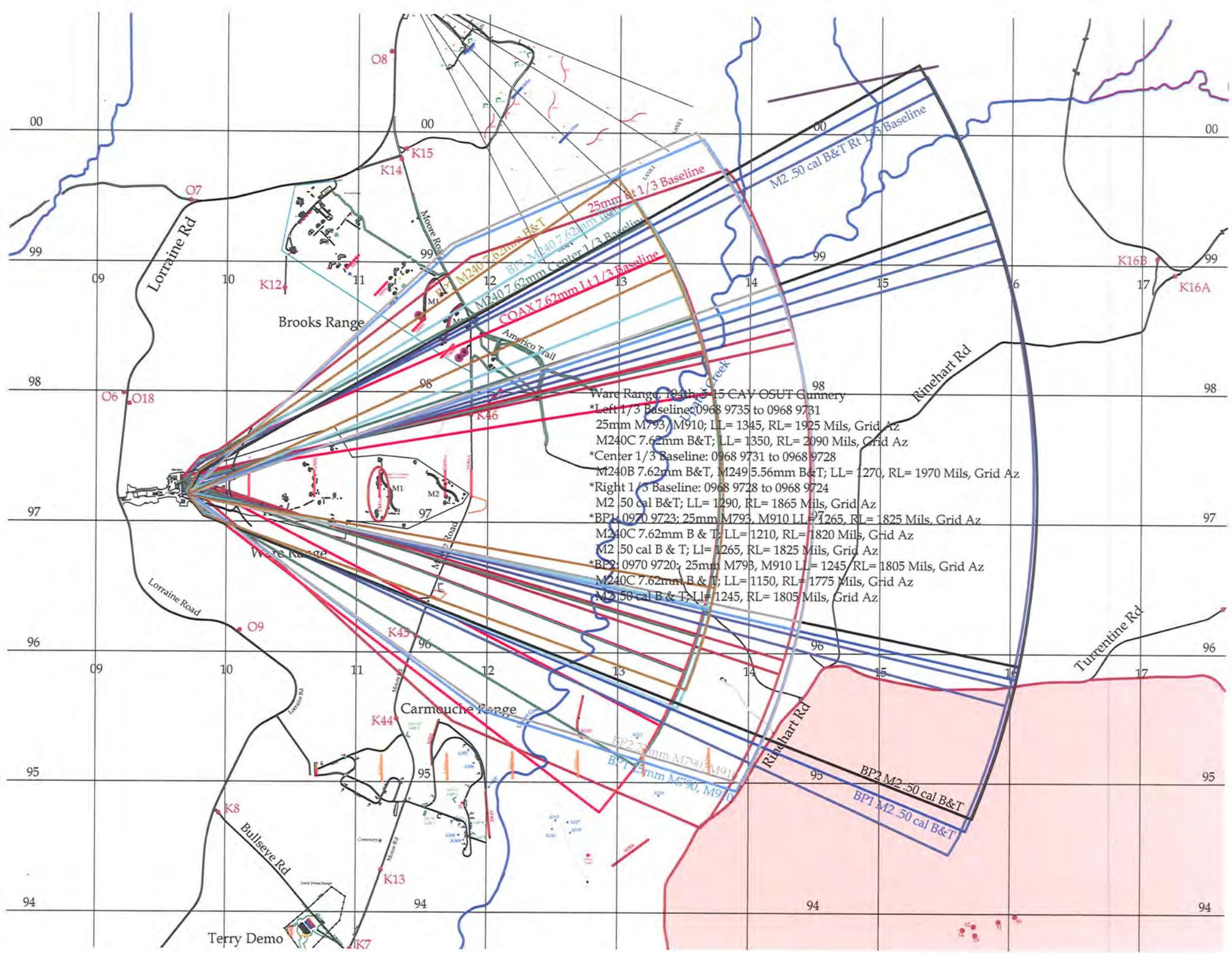
Date 19 SEP 2013

Signature 

Christopher E. Hamilton, PhD

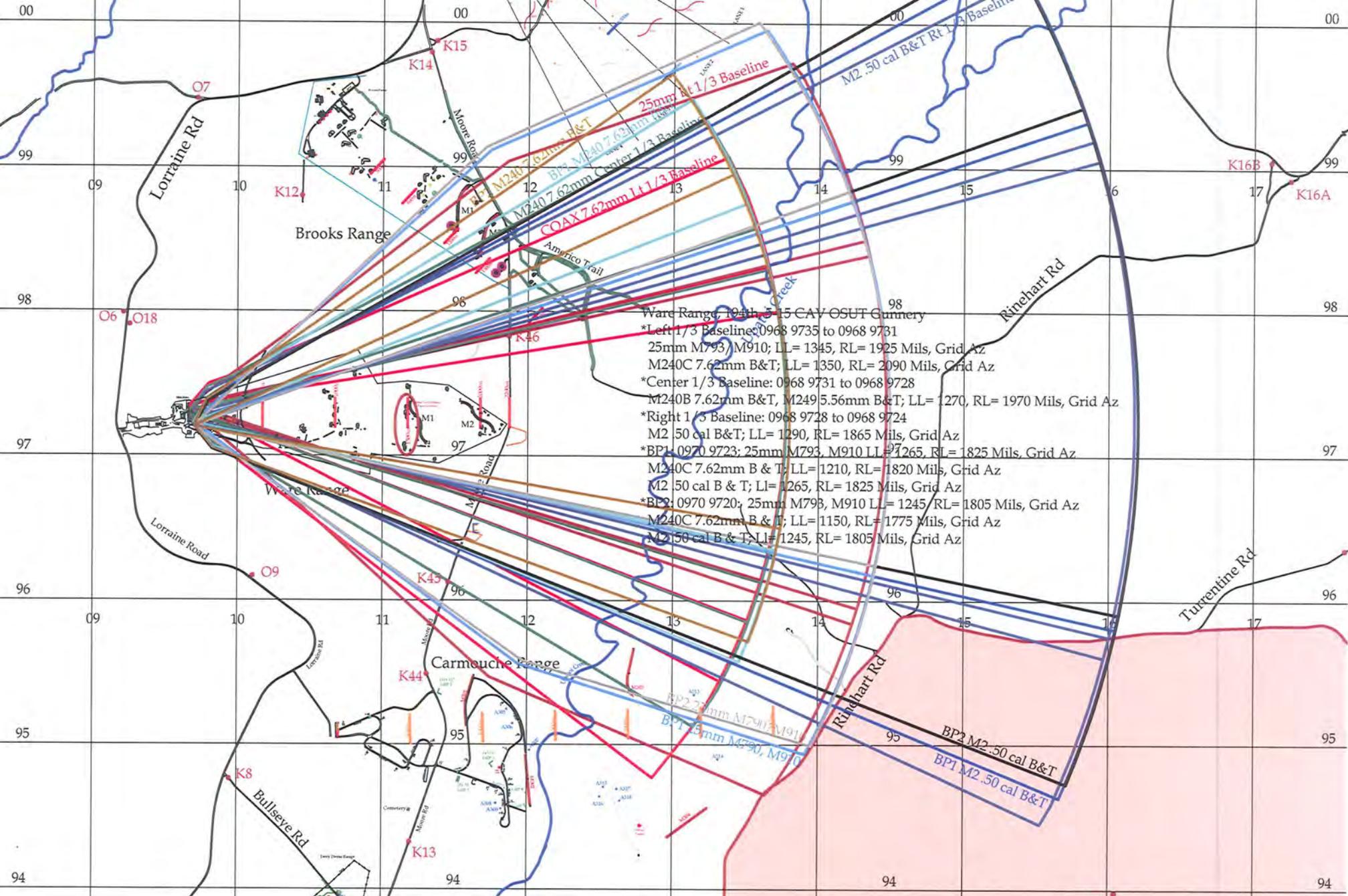
EPMB Chief

Date 20 Sep 13



Ware Range, 194th 5-15 CAV OSUT Gunnery

- \*Left 1/3 Baseline: 0968 9735 to 0968 9731  
25mm M793/M910; LL= 1345, RL= 1925 Mils, Grid Az  
M240C 7.62mm B&T; LL= 1350, RL= 2090 Mils, Grid Az
- \*Center 1/3 Baseline: 0968 9731 to 0968 9728  
M240B 7.62mm B&T, M249 5.56mm B&T; LL= 1270, RL= 1970 Mils, Grid Az
- \*Right 1/3 Baseline: 0968 9728 to 0968 9724  
M2 .50 cal B&T; LL= 1290, RL= 1865 Mils, Grid Az
- \*BP1: 0970 9723; 25mm M793, M910 LL= 1265, RL= 1825 Mils, Grid Az  
M240C 7.62mm B & T; LL= 1210, RL= 1820 Mils, Grid Az  
M2 .50 cal B & T; LL= 1265, RL= 1825 Mils, Grid Az
- \*BP2: 0970 9720; 25mm M793, M910 LL= 1245, RL= 1805 Mils, Grid Az  
M240C 7.62mm B & T; LL= 1150, RL= 1775 Mils, Grid Az  
M2 .50 cal B & T; LL= 1245, RL= 1805 Mils, Grid Az



Lorraine Rd

Brooks Range

Ware Range

Carmouche Range

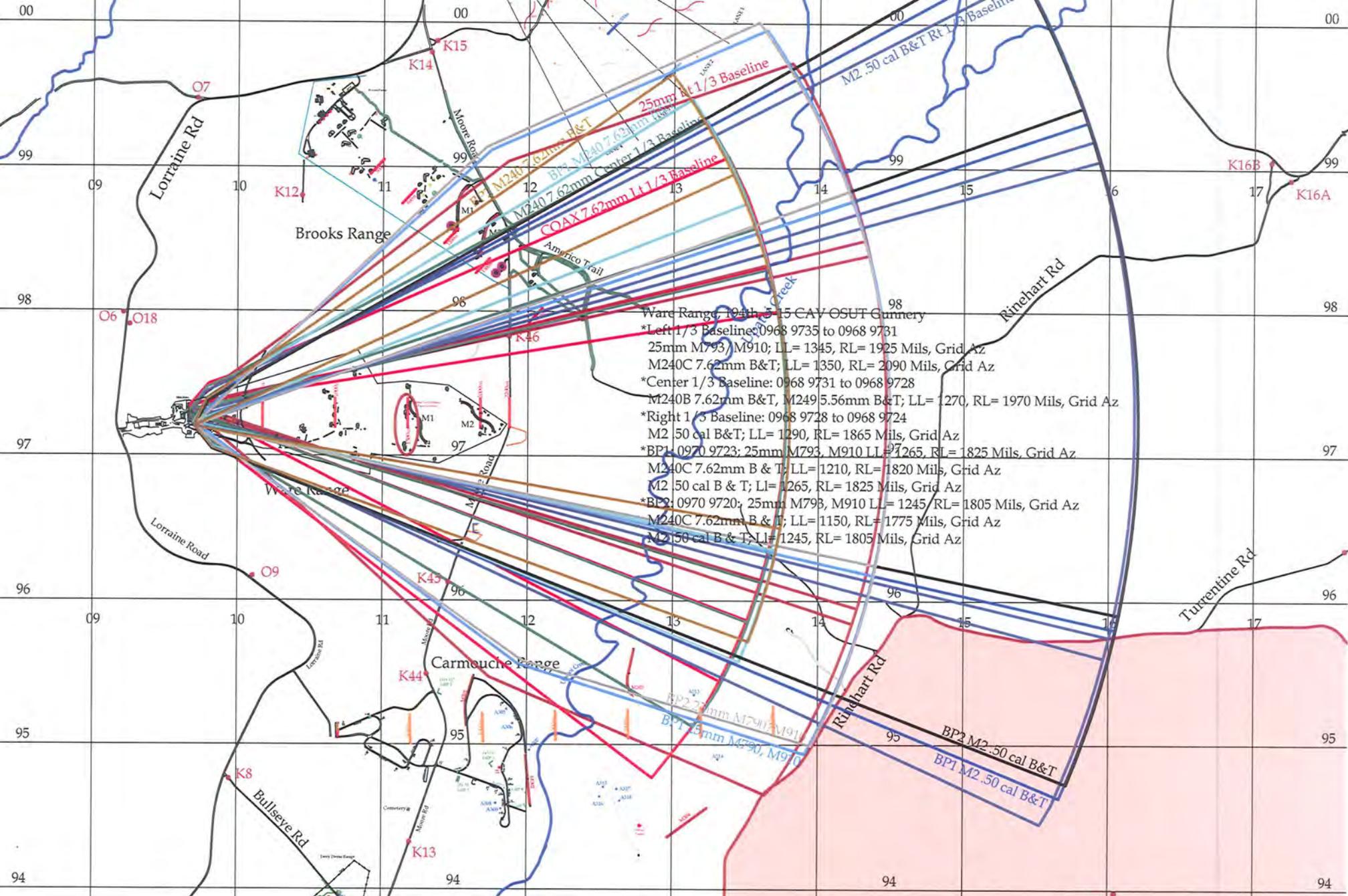
Terry Demo

M2 .50 cal B&T Rt 1/3 Baseline

25mm M793/M910  
M240C 7.62mm B&T  
M240 7.62mm Center 1/3 Baseline

COAX 7.62mm Lt 1/3 Baseline

BP2 M2 .50 cal B&T  
BP1 M2 .50 cal B&T



Lorraine Rd

Brooks Range

Ware Range

Carmouche Range

Terry Demo

M2 .50 cal B&T Rt 1/3 Baseline

25mm M793/M910  
M240C 7.62mm B&T  
M240 7.62mm Center 1/3 Baseline

COAX 7.62mm Lt 1/3 Baseline

BP2 M2 .50 cal B&T  
BP1 M2 .50 cal B&T