

FIRING/NONFIRING DATA		1. DATE OF REQUEST		
For use of this form, see MCoE Regulation 350-19; the proponent is DPTMS, Range Division.		23 Oct 2015 Log #10-06-15		
2. TO Chief, Range Division, Directorate of Plans, Training, Mobilization, and Security Fort Benning, GA 31905		3. RANGE: Krilling Range		
		4. TITLE: Marksmanship Training		
		5. PROBLEM NO: N/A		
6. THRU (Unit/Activity) USAMU S-3 Operations Fort Benning, GA. 31905		7. FROM (Unit/Activity) USAMU Instructor Training Group Fort Benning, GA. 31905		
SECTION I, TYPE OF TRAINING				
a. Live Fire <input checked="" type="checkbox"/>	b. Non-live Fire <input type="checkbox"/>	c. CP/Controller Coordinates		
SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS				
a. Coordinates	b. Type	c. Model/DODAC	d. Size of Charges	
SECTION III, WEAPONS/AMMUNITION REQUESTED				
a. Coordinates of Weapons Position	b. Type Weapon/Model Number	c. Type Ammunition	d. Left Limit <input checked="" type="checkbox"/> deg <input type="checkbox"/> mil	e. Right Limit <input checked="" type="checkbox"/> deg <input type="checkbox"/> mil
See Weapons and Ammo List	See Weapons and Ammo List	See Weapons and Ammo List	See Weapons and Ammo List	See Weapons and Ammo List
SECTION IV, LIVE FIRE EXERCISES (Attach the following)		SECTION V, NON-LIVE FIRE TRAINING		
a. <input checked="" type="checkbox"/> Scenario of training to be conducted		a. Training area(s) to be occupied		
b. <input checked="" type="checkbox"/> Sketch of area		b. <input type="checkbox"/> Scenario of training to be conducted		
c. <input checked="" type="checkbox"/> Risk Assessment		c. <input type="checkbox"/> Sketch of area(s) to be occupied		
d. <input type="checkbox"/> Attach FB Form 350-19-2-E-R if mortar or artillery is being fired		d. <input type="checkbox"/> Risk Assessment		
e. Name/Rank of Requesting Officer Henry L. Gray, SFC, S-3, Range NCOIC		e. Name/Rank of Major Unit S3/Commander James M. Pickett, CPT, IN		
Signature <i>Henry L. Gray</i>		Signature <i>James M. Pickett</i>		
SECTION VI, FOR RANGE DIVISION USE			a. DATE 30 Nov 15	
b. TO USAMU, S-3 Fort Benning, GA. 31905		c. FROM Range Division, Directorate of Plans, Training, Mobilization, and Security Fort Benning, GA 31905		
d. Roadblocks to be closed: See Road Block Enclosure				
e. Road(s) to be closed/road barrier locations:				
f. Remarks: Laser warning signs will be in place prior to use.				
g. This approval expires:			h. DATE <i>Indef</i>	
i. Approving Official Brad S. Tesch Chief, Range Division Directorate of Plans, Training, Mobilization, and Security		Signature <i>Brad S. Tesch</i>		



DEPARTMENT OF THE ARMY
HEADQUARTERS, US ARMY MARKSMANSHIP UNIT
7031 BILLS STREET
FORT BENNING, GEORGIA 31905-3103

REPLY TO
ATTENTION OF

ATAL-SBM-C

31 October 2011

MEMORANDUM THRU: Chief, Range Operations, Directorate of Plans, Training & Mobilization

FOR: USAMU, Combat Pistol, Action Shooting, and Service Pistol Sections

SUBJECT: Krilling Range Live Fire Scenario, Range Utilization SOP

1. USAMU is a strategic enabler of U.S. Army Accessions Command. Its first mission essential task is to support Army recruiting and accessions in an effort to connect America's people to America's Army. To this end, the Unit frequently conducts demonstrations, clinics, and competitions that routinely involve civilian participation. This civilian or non-military participation includes juniors, JROTC cadets, college students, ROTC cadets, MCoE visitors attending official events, DoD employees, non-military organizations, and organized clubs. USAMU's second mission essential task is to support the Warfighter, therefore Soldiers, other Armed Forces Services, Foreign Services, and USAMU Personnel coordinate for use of Krilling Range for training and Soldier Rifle/Pistol qualifications.

2. Krilling Range is a Known Distance Range primarily used for Marksmanship Training, Qualification, Zeroing, Familiarization, and Competition. Pistols, Rifles, Shotguns, Lasers, Scopes, Training Hand Grenades, Automatic and Foreign Weapons will be used on Krilling Range.

SAFETY: All live firing will be controlled at Krilling Range. Civilian and military personnel will follow all commands of the designated Range Safety Officer from each Krilling Range Bay while conducting competition, marksmanship training, and drills. All phases are well planned, rehearsed, briefed, dry fired, and completed in accordance with the approved safety waiver, range scenarios/SOPs, and Fort Benning Form 350-19-1-E-R. During all phases, all Civilian and military personnel will receive Range Safety Briefings on procedures, equipment and hazards. Eye and Ear protection is mandatory on the firing line as well as proper protective equipment to prevent injury. Laser and laser hazards are addressed prior to use, to include a brief instruction on the laser equipment. Laser Warning Signs will be posted throughout the shooting area and range. Civilian and military personnel bringing POWs will have weapons and ammunition inspected by an USAMU Gunsmith to ensure safety and correspondence to the prescribed equipment for the competition or training. During all phases, Civilian and military personnel will have Weapons Racks provided when in the Holding Area, not shooting, dry firing, or rehearsing. During all phases, Safeties and Judges will determine if the Civilian and military personnel are proficient and understand the course of fire. In the case that civilian and military personnel do not understand, he/she will be removed from the line and remedial training will be conducted. During all phases, all civilian and military personnel will have limited ammunition, limited number of engagements, and a limited plan of how to engage targets. All stages/scenarios are controlled, so that the shooter cannot engage targets at a close distance. All shooting will be daytime shooting only, in which detailed specific instructions on each bay scenario will be provided in a picture and text sketch. All phases will be contained within the berm compartment of each bay allowing multiple bay training to be conducted simultaneously, with the approved waiver, and a Range Safety Officer in each location of training. In addition to the individual trainers, an overall controller will monitor the entire multiple training event.

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SUBJECT: Krilling Range Live Fire Scenario, Range Utilization SOP

This independent controller and each bay instructor will have visual cease fire signals for Emergency Cease Fire situations. In case of emergency where a cease-fire is called both, hand and arm as well as verbal Cease-Fire will be given. All USAMU Soldiers are Combat Lifesaver qualified as well as provide aid and use Combat Lifesaver aid bags on the range. A dedicated Range Vehicle for only CLS will be behind the firing line ready for use. Vehicles carrying supplies, ammunition, targets, and pasters for the range will also be behind the firing line readily available. The OIC ensures the target positioning will not violate the Left and Right limits, see enclosures for target layout and weapons. All paper and steel targets will be set up and removed by USAMU personnel in which the steel will be pointed downward to reduce ricochet. Civilian and military personnel will engage targets from a safe distance in IAW the described course of fire and targets.

During **PHASE I / COMPETITION**, only one Shooter will move with one safety and one judge at a time in each Krilling Range Bay. The Safety and Judge will always be at a safe distance behind the competitor while engaging targets. All others preparing to shoot the same stage will be prepositioned in the Holding Area with the next shooter in line, On Deck, and the 3rd Shooter in line, in The Hole. The Holding Area will be at a safe distance away from the Bay. All areas (Holding Area, On Deck, In the Hole) will be visibly marked. There will be a Range Safety Officer controlling this area and no Shooter can leave the area without the RSO approval. Civilian and military personnel will place their weapons on weapons racks on each Krilling Range Bay. The Holding Area RSO maintains security of the weapons, ammunition, and personnel in the Holding Area. When all civilian and military personnel have completed the stage, the Holding Area RSO will release the squad to the next Holding Area in which the next Holding Area RSO will be awaiting weapons, ammunition, and personnel. Throughout PHASE I / COMPETITION, civilian and military personnel will load holstered weapon and prepositioned weapons resting on a table or barrel after he has rehearsed, dry fired, and is given the authorization to live fire the scenario. During every PHASE I / COMPETITION phase, civilian and military personnel will have controls in place that when the shooter is changing weapons, civilian and military personnel will place the weapon on a barrel or table and pick up another weapon from this point. It is in the Holding area only that the ammunition will be loaded into the weapon's magazines, but not chambered. It is only in PHASE I / COMPETITION that the Shooter can engage targets 90 degrees to the right or left, shooting within the individual berm compartment simultaneously with the other Brinson/Krilling Range Bays. When using Bay 10 from distances greater than 150 yards – 200 yards bays 6-9 will be cleared and closed.

During **PHASE II / TRAINING**, Qualifications, Marksmanship Training, Familiarizations, and Zeroing, all Shooters will be on line at the same time or one shooter at a time engaging targets. Movement is at a walking pace to teach the technique of moving and shooting. Weapons will be on safe when not engaging targets. When using Bay 10 from distances greater than 150 yards – 200 yards bays 6-9 will be cleared and closed.

Pistol Qualification's are fired on Krilling Range during the year. The alternate pistol course of fire out of FM 3-23.35 is the course that is used on this range. Again, the Combat/Action/ Service Pistol NCOIC are responsible to designate a line safety that will clear weapons after each phase of firing is complete. The line is completely cleared prior to civilian and military personnel moving downrange to change targets or to score targets in qualification.

During Advanced Marksmanship Training on Krilling Range, the majority of firing is done in the semi-automatic mode. In some cases burst/automatic fire may be used in a training environment with only one Soldier firing at a time with a line safety present to ensure safe employment of the weapon system and range limits are observed. The techniques used in marksmanship training are primarily derived from FM 3-23.35, FM 3-06.11, and FM 3-22.9.

MOVEMENT: During phases (Phase I and Phase II), civilian and military personnel will shoot from standing, kneeling, crouching, and prone positions as well as being told when to load, when to observe their target, in which their time begins when a designated start signal is given. During the movement portions of training it will be one safety to one Soldier moving in-depth or in-width of the range always centering on the target they are engaging to stay within range fan limits. There will always be one shooter per bay during movement training. Movement in one of three directions: Straight forward toward down range, diagonal forward toward down range, or horizontal toward down range. At all times weapon will be pointed down range and in a safe direction and firing will be down range almost straight into the target and berm. During the movement portions between firing lines, there will be a minimum of 2 range safeties controlling movement and ensuring that civilian and military personnel are moving in-depth or in-width of the range always centering on the target they are engaging to stay within range fan limits.

CONTROLLING FACTORS: Civilian and military personnel fire under controlled conditions at all times. During training, and in competition, a line official or range officer gives all firing commands from the center of the firing line in each bay. Civilian and military personnel will shoot from standing, kneeling, crouching, and prone positions as well as being told when to load and when to observe their target and their time begins when a designated start signal is given. Each civilian and military personnel fire their appropriate course of fire, then a designated signal is sounded to mark when their time has expired. Line safety's and judges clear the firing line and make note of any saved rounds. The line is completely cleared prior to civilian and military personnel moving downrange to change targets or to score targets in competition. Before training, the NCOIC or his representative is responsible to designate the line safety that will clear weapons after each phase of firing is complete. The Grenades and fuses will be handled and defused by a representative of the OIC/NCOIC only. All grenades and fuses will be handled with care along with eye and ear protection. During the firing phase it is the range safety's responsibility to ensure the range is safe until completion of that phase of fire and all weapons are cleared.

3. During **PHASE I / COMPETITION** and **PHASE II / TRAINING**, USAMU use Iron Maidens and Stage Design Props for situational courses of fire at Krilling Range. Iron Maidens will be fired upon in accordance with the dimensions described in the FB 350-19-1-E-R and range scenario/SOP. Some Steel Targets (Pepper Poppers) are designed to fall once fired upon. All props used on the range are obstacle-laden shooting courses (called stages or scenarios) requiring anywhere from six to thirty shots on several targets. Civilian and military personnel move, negotiate obstacles, run, reload, and compete through each of several courses. These scenarios require civilian and military personnel to deal with constantly changing props such as doors, ports, bridges, windows, barrels, furniture, military and civilian vehicles or vessels of all types. All vehicles used as barricades will have hazardous material fluids purged. All vehicles will be covered with sand bags to reduce ricochet. At no time will civilian and military personnel move any part of the stage designs. All props and vehicles are not permanently fixed inside on the ranges. All props will be removed for qualification or when needed. When using Props, Stages, Scenarios, Iron Maidens, and Pepper Poppers, civilian and military personnel negotiate through the stages one at a time and is observed by a Range Safety Officer with one judge.

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SUBJECT: Krilling Range Live Fire Scenario, Range Utilization SOP

4. The NCOIC of Krilling Range will dictate PHASE I / COMPETITION, PHASE II / TRAINING, and also PHASE I / COMPETITION TRAINING. PHASE I / COMPETITION TRAINING will be for his Soldiers practicing competition techniques for a scheduled match. The NCOIC of Brinson/Krilling Range is the only person who can make this determination. All Safety, Controlling factors, and SOPs for PHASE I / COMPETITION TRAINING are the same as PHASE I / COMPETITION and will be strictly enforced.

5. Safety: During Movement, No Movement, and CQM, only one Soldier will move with one safety at a time. During Qualification all Soldiers will be on line at the same time engaging stationary targets. Soldiers will follow all commands of that safety while conducting training and drills. Movement is at a walking pace to teach the technique of moving and shooting. Weapons will be on safe when not engaging targets. A Combat Lifesaver and aid bag is always on the range. If required, unit will use the standard 9 Line MEDEVAC in case of illness or injury and call 911 to determine what type of evacuation is the most appropriate for the injury. 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. Using units higher Headquarters and Range Control will be notified in this event.

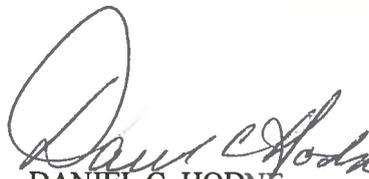
In case of emergency where a cease-fire is called both hand and arm as well as verbal Cease-Fire will be given. See enclosures for target layout and weapons. All Soldiers receive Range Safety Briefings on procedures, equipment, and hazards. Laser and laser hazards are addressed prior to use. LASER warning signs will be in place prior to use. Weapons/Ammunition Malfunction Reports: When a malfunction is experienced, the OIC or Range Safety Officer will suspend all firing and immediately notify Range Control. Retain the weapons and all components and ammunition involved in place. An investigation is required and will be conducted by DOL.

When an incident occurs on the range, regardless of injury or not, the OIC/RSO will immediately report it to Range Control and the using unit's higher headquarters. 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.

Intentions regarding an AR 15-6 investigation

6. POC is CPT Howard G. Rice, USAMU S-3OIC, (706) 545-3510 or howard.rice@usaac.army.mil.



DANIEL C. HODNE
LTC, SF
Commanding



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
HEADQUARTERS UNITED STATES ARMY MARKSMANSHIP UNIT
7031 BILLS STREET
FORT BENNING, GEORGIA 31905-5810

ATAL-SBM-C

31 October 2011

MEMORANDUM FOR RECORD

SUBJECT: Standard Operating Procedures for Use of Steel Targets during USAMU Live-fire Training/Competitions

1. USAMU is a strategic enabler of U.S. Army Accessions Command. Its first mission essential task is to support Army recruiting and accessions in an effort to connect America's people to America's Army. To this end, the Unit frequently conducts demonstrations, clinics, and competitions that routinely involve civilian participation. This civilian or non-military participation includes juniors, JROTC cadets, college students, ROTC cadets, MCoE visitors attending official events, DoD employees, non-military organizations, and organized clubs. USAMU's second mission essential task is to support the Warfighter, therefore Soldiers, other Armed Forces Services, Foreign Services, and USAMU Personnel coordinate for use of Krilling Range for training and Soldier Rifle/Pistol qualifications.
2. The U.S. Army Marksmanship Unit has used steel targets since 1992 and has not had a serious incident on any ranges due to steel target ricochet accidents. As stated in Army Field Manuals, Army Safety Regulations, Department of the Army Pamphlets, Memorandums, and Documents that support proper safety techniques, Army marksmanship will always be hazardous. The awareness of the inherent risks allows the USAMU to develop and implement control measures. The use of steel targets is just one more factor to be included in the risk management program. USAMU has taken precautions to ensure proper uses of all steel targets are enforced.
3. The OIC/RSO ensures the target positioning in which the steel will be pointed downward to reduce ricochet and will not violate the Left and Right limits. The OIC/RSO will also ensure targets will be positioned at the base of the berm to avoid civilian and military from shooting over the top of the berm compartment. Civilian and military will engage targets from a safe distance in IAW the limitations described in this USAMU SOP for use of Steel Targets and the Fort Benning Form 350-19-1-E-R scenario that is used in conjunction with the Range Waiver.
4. Below are some examples of training and competition where the use of steel targets is incorporated into our mission. The following is a partial list:
 - a. Steel targets are an integral part of USAMU shooting sports course design. If we do not have steel targets to train on we will not be able to compete and win.
 - b. Utilizing steel targets for our training allows shooters to dedicate all available training time to shooting instead of moving down range and repairing paper targets.
 - c. Steel targets are more economical than paper targets and electronic targets, as they need only paint and minimal care to remain serviceable for many years.

ATAL-SBM-C

SUBJECT: Standard Operating Procedures for Use of Steel Targets during USAMU Live-fire Training/Competitions

d. Steel targets are a very important part of Train the Trainer Courses. Steel targets allow students to get visual and audio logical feedback, as well as see shot groups and coach down range performance without leaving the shooting position.

5. The following are some of the controls placed on the use of steel targets:

a. Pistol

- (1) Never closer than 7 yards with reactive or downward angled steel.
- (2) Never closer than 12 yards on Static steel.
- (3) Never on rifle steel.
- (4) Steel will be oriented so that it presents an angle of less than 24 degrees to the shooter.

b. Rifle/Automatic Weapons

- (1) Never closer than 12 yards with reactive or downward angled steel.
- (2) Never closer than 25 yards for static steel.
- (3) Never use steel core or penetrator rounds other than M855 ball.
- (4) Never use M855 ball closer than 100 yards.
- (5) Steel will be oriented so that it presents an angle of less than 24 degrees to the shooter.
- (6) Frangible ammo may be shot as close as 1 yard.
- (7) No calibers greater than 7.62x51mm inside of 100 yards without frangible ammo.

c. Shotgun

- (1) Never closer than 7 yards on any steel.
- (2) Frangible shot may be used as close as 1 yard.
- (3) No slugs, steel shot or breaching round.

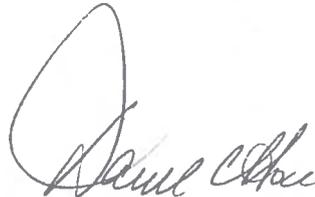
6. Once steel targets are used with rifle, it will remain for rifle plates. Firing pistol ammo on rifle steel will result in excessive fragmenting of bullets on impact.

7. General safety requirements remain the same. The use of steel targets are included in the range Risk Management Worksheet, Range SOP, and Range Safety Briefings. If there is steel in any array, Wrap Around Eye Protection and Ear Protection is required for: Civilian and military for USAMU hosted events. During Training Events: Kevlar and IBA are added along with Eye and Ear Protection.

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SUBJECT: Standard Operating Procedures for Use of Steel Targets during USAMU Live-fire Training/Competitions

8. There will always be some amount of fragments from shooting steel targets. Once rounds impact a piece of steel the path of fragments cannot be guaranteed. By using these guidelines the risk of fragmentation to shooter will be significantly reduced, and any fragments that do will not be capable of serious injury.
9. All use of steel targets are requested from USAMU and approved by the Commanding General of Fort Benning under each USAMU range Safety Waiver.
10. Point of Contact for this memorandum is CPT Howard G. Rice, USAMU S-3 OIC, 706-545-3510, or email howard.rice@usaac.army.mil.



DANIEL C. HODNE
LTC, SF
Commanding



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

06 November 2011

MEMORANDUM FOR Commander, U.S. Army Marksmanship Unit, Attn: SFC Buss, Fort Benning, GA 31905

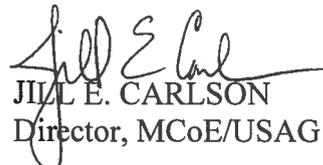
SUBJECT: Krilling Range Deviation Request and Safety Review

1. References.

- a. Range Safety Wavier – Krilling Range, dated 31 October 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.civ@mail.mil


JILL E. CARLSON
Director, MCoE/USAG Safety

USAMU

TYPE OF WEAPON / AMMUNITION

TYPE ONE

PISTOL, SHOTGUNS, SUBMACHINE GUNS

<u>WEAPON NAME</u>	<u>WEAPON NOMENCLATURE</u>	<u>AMMO DODIC</u>	<u>AMMO NOMENCLATURE</u>
PISTOL .22-.45 CAL	NON-MILITARY WEAPONS SYSTEMS	0003	.22 TO 45 BALL (COMMERCIAL)
PISTOL .22-.45 CAL	NON-MILITARY WEAPONS SYSTEMS	0004	.22 TO 45 JHP (COMMERCIAL)
PISTOL .22-.45 CAL	NON-MILITARY WEAPONS SYSTEMS	0006	.22 TO 45 FX MARKING CARTRIDGES BALL (COMMERCIAL)
M1911A1	PISTOL .45 CAL	NONE	NON-MILITARY MUNITIONS
M9	PISTOL, 9MM AUTOMATIC M9	AA49	CARTRIDGE, 9MM BALL M882
M9	PISTOL, 9MM AUTOMATIC M9	A363	9MM BALL PISTOL (NEW)
M9	PISTOL, 9MM AUTOMATIC M9	NONE	NON-MILITARY MUNITIONS
MAKAROV	PISTOL, 9MM FOREIGN WEAPON SYSTEM	AA49	CARTRIDGE, 9MM BALL M882
SIMUMITION	WEAPONS, SIMUNITIONS SYSTEMS (9MM)	AA12	9MM, FX MARKING CARTRIDGE RED
SIMUMITION	WEAPONS, SIMUNITIONS SYSTEMS (9MM)	AA21	9MM, FX MARKING CARTRIDGE BLUE
M19	SHOTGUN, 12 GAGE	NONE	NON-MILITARY MUNITIONS
SHOTGUN	NON-MILITARY WEAPONS SYSTEMS	NONE	NON-MILITARY MUNITIONS
PAINTBALL	PAINTBALL/FX MARKING CATRIDGE (NON-MILITARY)	NONE	NON-MILITARY MUNITIONS
MOUT/RIOT CONTROL	MOUT/ RIOT CONTROL MUNITIONS	AA29	CART 12 GAGE BEAN BAG NON-LETH
MOUT/RIOT CONTROL	MOUT/ RIOT CONTROL MUNITIONS	AA31	12 GAGE FIN STAB RUBBER
MOUT/RIOT CONTROL	MOUT/ RIOT CONTROL MUNITIONS	AAAA	GRENADE, STINGER, RUBBER BALL GRENADE BODY
MOUT/RIOT CONTROL	MOUT/ RIOT CONTROL MUNITIONS	AAAE	RUBBER PELLET ROUND, HIGH VELOCITY (12 GAUGE)
M19	SHOTGUN, 12 GAUGE	A011	12 GAUGE SHOTGUN 00 BUCKSHOT
M19	SHOTGUN, 12 GAUGE	A015	CTG, 12 GAUGE #8 SHOT
M19	SHOTGUN, 12 GAUGE	A017	12 GA #9 SHOT
M19	SHOTGUN, 12 GAUGE	A023	CTG, 12 GAGE
M19	SHOTGUN, 12 GAUGE	AA29	CART 12 GAUGE BEAN BAG NON-LETH
M19	SHOTGUN, 12 GAUGE	AA31	12 GAUGE FIN STAB RUBBER
M19	SHOTGUN, 12 GAUGE	AA51	12 GAUGE, M1012, POINT CONTROL
M19	SHOTGUN, 12 GAUGE	AA52	12 GAUGE, M1013, CROWD CONTROL
M19	SHOTGUN, 12 GAUGE	AA54	BREACHING ROUND (M1030)
M1911A1	PISTOL .45 CAL	A482	.45 BALL WADCUTTER
M1911A1	PISTOL .45 CAL	A483	.45 BALL MATCH
M9	PISTOL, 9MM AUTOMATIC M9	X236	NON-MILITARY MUNITIONS
S & W MDL 10	REVOLVER .38 CAL: SPECIAL: 4 IN BRL	A404	.38 SPECIAL WADCUTTER
S & W MDL 10	REVOLVER .38 CAL: SPECIAL: 4 IN BRL	NONE	NON-MILITARY MUNITIONS
.32 - .45 CAL PISTOL	NON-MILITARY, MATCH .32 - .45 PISTOL	A349	CTG, CAL .32 BALL
.32 - .45 CAL PISTOL	NON-MILITARY, MATCH .32 - .45 PISTOL	NONE	NON-MILITARY MUNITIONS
M939, TRAINER	AT - 4, 9MM, M939 TRAINER	A358	9MM PRACTICE AT - 4
M203	LAUNCHER GRENADE 40MM SINGLE SHOT	B519	40MM PRACTICE M781
M203	LAUNCHER GRENADE 40MM SINGLE SHOT	AAA1	40MM STINGER ROUND
M203	LAUNCHER GRENADE 40MM SINGLE SHOT	AAAJ	40MM GRENADE SPONGE
M203	BODY PRACTICE GRENADE	G878	ELIZE HAND GRENADE PRACTICE USE W/M60 PRACTICE

USAMU

TYPE OF WEAPON / AMMUNITION

TYPE TWO

AUTOMATIC AND FOREIGN AUTOMATIC WEAPONS 5MM - 8MM COMMERCIAL AMMO

<u>WEAPON NAME</u>	<u>WEAPON NOMENCLATURE</u>	<u>AMMO DODIC</u>	<u>AMMO NOMENCLATURE</u>
M240 B/C/G	M240B/C/G MACHINE GUN	A143	7.62MM BALL LNKD F/MG
M249	M249 MACHINE GUN 5.56 MM	A062	5.56 MM BALL LNKD F/SAW
M249	M249 MACHINE GUN 5.56 MM	AA33	5.56 MM BALL COMMERCIAL PACK, CTG
AK47	AK47, RUSSIAN (7.62MM) WEAPON SYSTEM	NONE	NON-MILITARY MUNITIONS
AK47	AK47, RUSSIAN (7.62MM) WEAPON SYSTEM	A102	7.62MM BALL AK47 RIFLE

TYPE THREE

MILITARY RIFLES < 5500M

<u>WEAPON NAME</u>	<u>WEAPON NOMENCLATURE</u>	<u>AMMO DODIC</u>	<u>AMMO NOMENCLATURE</u>
M16A1	RIFLE 5.56MM	A058	CTG, 5.56MM BALL M855
M16A1	RIFLE 5.56MM	NONE	NON-MILITARY MUNITIONS
M16A2/3 M4	RIFLE 5.56MM M16A2/3 & M4	A059	5.56MM BALL F/M16A2
M16A2/3 M4	RIFLE 5.56MM M16A2/3 & M4	AA33	5.56MM BALL COMMERCIAL PACK, CTG
M16A2/3 M4	RIFLE 5.56MM M16A2/3 & M4	AA53	77 GR BH MATCH 5.56MM BALL MOLY COATED
M16A2/3 M4	RIFLE 5.56MM M16A2/3 & M4	NONE	80 GR BH MATCH 5.56MM BALL
M16A2/3 M4	RIFLE 5.56MM M16A2/3 & M4	NONE	90 GR BH MATCH CUSTOM HL
M16A2/3 M4	RIFLE 5.56MM M16A2/3 & M4	NONE	NON-MILITARY MUNITIONS
SKS (RUSSIAN MODEL)	RIFLE 7.62MM FOREIGN WEAPON SYSTEM	NONE	NON-MILITARY MUNITIONS
SR 25 SEMI AUTO	SR 25 SEMI AUTO	A136	7.62MM BALL (SNIPER)
SR 25 SEMI AUTO	SR 25 SEMI AUTO	A171	7.62MM SPEC M852 MATCH
SR 25 SEMI AUTO	SR 25 SEMI AUTO	AA11	7.62MM M118 LONG RANGE

USAMU

TYPE OF WEAPON / AMMUNITION

TYPE FOUR

MILITARY RIFLES < 6500M

<u>WEAPON NAME</u>	<u>WEAPON NOMENCLATURE</u>	<u>AMMO DODIC</u>	<u>AMMO NOMENCLATURE</u>
M24	RIFLE, 7 62 SNIPER M24	A136	7 62MM BALL (SNIPER)
M24	RIFLE, 7 62 SNIPER M24	A171	7 62MM SPEC M852 MATCH
M24	RIFLE, 7 62 SNIPER M24	AA11	7 62MM M118 LONG RANGE
M24	RIFLE, 7 62 SNIPER M24	NONE	NON-MILITARY MUNITIONS
M14	RIFLE, 7.62 NATIONAL MATCH GRADE	A171	7 62MM SPEC M852 MATCH
RIFLE .22 CAL-7.62MM	NON-MILITARY WEAPON SYSTEM	NONE	NON-MILITARY MUNITIONS
RIFLE .22 CAL-7.62MM	NON-MILITARY WEAPON SYSTEM	0000	6 5 X 284 (COMMERCIAL)
RIFLE .22 CAL-7.62MM	NON-MILITARY WEAPON SYSTEM	0001	7MM SHORT MAGNUM (COMMERCIAL)
RIFLE .22 CAL-7.62MM	NON-MILITARY WEAPON SYSTEM	0002	300 WINCHESTER MAGNUM (COMMERCIAL)
RIFLE .22 CAL-7.62MM	NON-MILITARY WEAPON SYSTEM	NONE	30.06 CAL USAMU HANDLOAD
RIFLE .22 CAL-7.62MM	NON-MILITARY WEAPON SYSTEM	NONE	6MM (COMMERCIAL)
RIFLE .22 CAL-7.62MM	NON-MILITARY WEAPON SYSTEM	NONE	308 155 GR PALMA CUSTOM HL
RIFLE .22 CAL-7.62MM	NON-MILITARY WEAPON SYSTEM	NONE	308 175 GR M118 LR
RIFLE .22 CAL-7.62MM	NON-MILITARY WEAPON SYSTEM	NONE	308 190 GR CUSTOM HL
RIFLE .22 CAL-7.62MM	NON-MILITARY WEAPON SYSTEM	NONE	308 210 GR CUSTOM HL
RIFLE .22 CAL-7.62MM	NON-MILITARY WEAPON SYSTEM	NONE	308 220 GR CUSTOM HL
RIFLE .338 LAPUA	NON-MILITARY WEAPON SYSTEM	NONE	.338 LAPUA (COMMERCIAL)
RIFLE .50 BMG	NON-MILITARY WEAPON SYSTEM	NONE	.50 BMG (COMMERCIAL)

TYPE FIVE

LASER

<u>WEAPON NAME</u>	<u>WEAPON NOMENCLATURE</u>	<u>AMMO DODIC</u>	<u>AMMO NOMENCLATURE</u>
LASER	LASER	LASR	LASER (EYE SAFE)
PAQ4	EYE SAFE LASER	LASR	LASER (EYE SAFE)
PEQ2	EYE SAFE LASER	LASR	LASER (EYE SAFE)

Krilling Range AMU Marksmanship Weapons / Ammunition

Coordinates of Weapon Positions	Weapon / Ammunition Type	Left Limit of Fire Mils, Grid Azimuth	Right Limit of Fire Mils, Grid Azimuth
Bays 2-5: LS 0141 8115 to RS 0136 8125 (Stationary), LS Start 0141 8115 to LS Stop 0140 8114 RS Start 0136 8125 to RS Stop 0134 8124.	I-V	243	243
Bays 6-9: LS 0136 8128 to RS 0131 8139 (Stationary), LS Start 0136 8128 to LS Stop 0133 8126 RS Start 0131 8139 to RS Stop 0127 8138.	I-V	242	242
Bays 10: Movement: LS 0127 8139 to RS 0126 8142, LS Start 0127 8139 to LS Stop 0126 8139, RS Start 0126 8142 to RS Stop 0125 8141. 50 Yd: LS 0129 8140 to RS 0128 8143, 100 Yd: LS 0133 8143 to RS 0132 8146, 150 Yd: LS 0137 8145 to RS 0135 8148.	I-V	Movement - 247, 50 Yd - 244, 100 Yd - 243, 150 Yd -243.	Movement - 236, 50 Yd - 234, 100 Yd - 236, 150 Yd -237.

Notes: Various LASER's will be used during training. Laser Warning Signs will be in place prior to opening range. Range safety Briefing will include hazards using Lasers.

NOTE: Weapons and ammunition used will be various civilian, military, custom made, foreign and commercial quality. All foreign made weapons and ammunition are serviceable and have been inspected, tested and certified by USAMU Customs Fire-Arms Shop (see memorandum enclosure). Any ammunition used will not have a maximum range capability to exceed 5500 meters.



RECORD OF ENVIRONMENTAL CONSIDERATION REC



EMD Number: 1522403

Project#: N/A

Project Title: USAMU Ranges and Training Areas

Description of Proposed Action:

Personnel will train and compete by firing live fire ammunition at ranges of 7-1000 yards into known and unknown distances into the impact areas.

Project Location:

Easley, McAndrews, Shelton, Phillips, Parks, Hook, Pool Complex, Maertens, Krilling, Wagner, Malone 5, Malone 12, Malone 18, Simpson, English, Hibbs, Burroughs, Buchanan Ranges

Amount, Description, Location of Disturbance/Digging:

None

Number/Types of Vehicles:

100 GOV/POV

Number of Personnel:

200

Type of Ammunition:

.22-50 cal Live and Blank

Number/Types of Trees:

None

Will be taken off road.

Types of Aviation:

None

Other Concerns:

FY 2016

Size of Project Area: Acres

Duration of Action: Start:10/1/2015 Stop:9/30/2016

Proponent: SFC Nicole Brede 706-545-7174

Unit, Section or Dept: USAMU

Decision: Concur with conditions

This Action is adequately covered in an Existing (E/AEIS) titled:

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

Training Is Approved For Oct. 1, 2015 Through Sept. 30, 2016

Cultural Resources - Archeological

None

Edward Howard (706-545-1898), 8/19/2015

No Comment.

Natural Resources - TES

None

Mark Thornton (706-544-7079), 8/17/2015

No Comment.

Natural Resources - RCW

Conditions:

Jonathan Neufeldt (706-544-7705), 8/13/2015

For Your Information, see attachment 2007 Army Guidelines Permitted Training in Clusters and RCW Cluster Related Photos

EMD Number: 1522403 **Project#** N/A

Project Title: USAMW Ranges and Training Areas

all military vehicles to prevent oil and other petroleum products from spilling onto the soil. All spills of petroleum products to the ground must be immediately cleaned up and disposed of in accordance with Fort Benning policy. The EPMB provides an 8 hours course covering Hazardous Materials/Waste Management, Hazardous Waste Minimization, Safety, and Pollution Prevention. It is highly recommended that personnel conducting the event attend the training offered.

Signature John E Brown

Reviewed By

John E Brown

NEPA Program Manager

Date 26 AUG 2015

Signature Chris Hamilton

Approved By

Patrick R. Chauvey

EPMB Chief

Date 26 Aug 15

(List continued). Training activities permitted within marked red-cockaded woodpecker (RCW) 200ft buffer zones according to the 2007 Army RCW Guidelines (Department of the Army 2007).

DIGGING ALLOWED:	ALLOWED
Tank ditches	No
Deliberate individual fighting positions	No
Crew-served weapons fighting positions	No
Vehicle fighting positions	No
Other survivability/force protection positions	No
Vehicle survivability positions	No

NOTES:

- (1) These training restrictions apply to RCW cavity trees in training areas, but not to cavity trees located in dedicated impact areas.
- (2) Vehicles will not get any closer than 50 feet of a marked cavity tree unless on existing roads, trails or firebreaks.
- (3) Smoke generators and smoke pots will not be set up within 200 feet of a marked cavity tree, but the smoke may drift through the 200 feet circle around a cavity tree.

FORT BENNING ENVIRONMENTAL REGULATIONS SUMMARY

SENSITIVE AREAS: Endangered species habitat or cultural resources. They are marked with steel pickets and white signs. Digging and vehicular traffic is prohibited.

POL/HAZMAT SPILLS: Report all spills through Range Control at 545-3474. If assistance is required from the Fire Department/HAZMAT Team, Range Control will make notifications through E-911. For POL spills greater than 20 gallons on land or any quantity on surface water, the Environmental Management Division (EMD) must be immediately notified through E-911 or 545-9879/4203. For POL spills less than 20 gallons on land, a Spill Report Form must be submitted within 24 hours to the EMD (Call 545-9879 and/or FAX 545-4209). After hours call the spill pager at 317-6584.

Unit should begin spill control measurements (REACT) within their capabilities. If a spill occurs within a sensitive area; stop the source, contain, and absorb the spill material - do not dig until EMD personnel arrive at the site.

- Be prepared to report:
- Time, grid location, and cause of spill.
 - Type of product and amount spilled.
 - Distance from flowing water.
 - Action taken to combat spill.

See USAIC 210-4, Range and Terrain Regulations, for more detail.

ENVIRONMENTAL INCIDENT REPORT FORM

Unit: _____

OIC/NCOIC: _____

Training Area: _____

Grid Coordinates: _____

Date and Name: _____

Signature: _____

FB (DPW) Form 31, 1 May 2004 PREVIOUS EDITION OBSOLETE

FORT BENNING ENVIRONMENTAL REGULATIONS SUMMARY

RED-COCKADED WOODPECKER (RCW): Cavity trees are identified by two white bands. Cluster boundaries extend 200 feet around each cavity tree, and are delineated by diamond-shaped signs. **WITHIN a cluster:**

- Personnel MAY NOT stay for more than 2 hours; NO BIVOUACS.
- The only digging allowed is BY HAND for hasty defense light infantry fighting positions. ALL other digging is prohibited.
- Within one half mile of a cluster, NO MECHANICAL DIGGING may be done within 20 feet of any mature pine tree (8 inch diameter or greater).
- Off-road vehicles MAY NOT come within 50' of any cavity tree.
- Use only .50cal and 7.62mm (or smaller) blank ammo; NO LIVE FIRE.
- CS gas, HC smoke, and noise generators MAY NOT be used.
- Incendiary devices (including trip flares) MAY NOT be used.
- Only hardwood may be cut for camouflage; CUT NO PINE.

GOPHER TORTOISE: Inhabits burrows in high sandy areas. Some burrows are marked by white 1" PVC pipe topped with reflective tape. Digging and vehicular traffic must be kept more than 50 feet away from burrows.

===== CUT HERE =====

ENVIRONMENTAL INCIDENT REPORT FORM

For your protection, company commanders are asked to document any environmental incidents by completing this card and forwarding it to the Chief, Environmental Management Division, Building 6, Room 307, or call 545-2100, within 24 hours of incident. Check off incident and take corrective actions.

- _____ bivouacking in RCW cluster (Relocate bivouac site.)
- _____ off-road driving / parking within 50' of RCW cavity tree (Relocate.)
- _____ digging in RCW cluster [except individual hasty fighting positions] (Refill holes.)
- _____ scarring or felling of trees in RCW cluster (Contact EMD Conservation Branch through Range Control.)
- _____ digging or driving in Sensitive Area (Relocate, DO NOT refill holes.)
- _____ wildfire started (Begin suppression and contact Range Control.)
- _____ POL spill greater than 20 gallons on land or any quantity on water (Immediately contact Range Control and begin spill control - REACT.)
- _____ POL spill less than 20 gallons on land (Begin spill control - REACT; contact Range Control and submit a Spill Report Form to EMD within 24 hours.)

- **HOW to PLAN** and be ready to respond to a problem;
- **HOW to REACT** to a minor, intermediate or major spill; and
- **WHAT** to do after a spill occurs.

Planning

MINOR SPILLS

- When on the move, keep some plastic bags in your vehicle, and have your assigned On-Vehicle Equipment (OVE) ready for use.
- Maintain supplies, rags, absorbent pads, or other kinds of materials that will soak up spills on hard surfaces (like Dry Sweep), or know where you can easily obtain them.
- Keep Personal Protective Equipment (PPE) accessible (gloves, goggles, etc.).

INTERMEDIATE & MAJOR SPILLS

In addition to the procedures above:

- Know where to go for help.
- Know where spill kits are kept and learn how to use them.

Prevention

Vehicle Maintenance and Fueling Points, Hazardous Waste Collection Points and hazardous material Storage & Supply Areas may not be set up at your deployment destination. So PLAN to build your areas to prevent hazardous material accidents before they occur. Remember the following:

HAZARDOUS MATERIAL/HAZARDOUS WASTE AREA LOCATION - Locate hazardous material/hazardous waste areas away from living areas, bunkers, ammunition storage, fence lines and/or dining facilities. Place them near the areas where hazardous material are used.

MATERIAL SAFETY DATA SHEET (MSDS) - Keep MSDSs for each hazardous material stored or collected at hazardous material/hazardous waste areas.

UNIT/ACTIVITY ENVIRONMENTAL SOP & SPILL RESPONSE PLAN - Place SOP and Spill Response Plan at each hazardous material/hazardous waste area.

COMPATIBILITY OF MATERIALS - Store and/or dispose of each class of hazardous material/hazardous waste separately. MSDSs describe the classification of HMs. Four common classification include the following: Flammable (fuels), Corrosives (acids), Reactive (explosives), and Toxic (insecticides).

BEFORE you deploy, plan to pack drip pans, rags, plastic, Dry Sweep, absorbent, and spill pallets to prevent drips, spills, and leaks from seeping into the ground and contaminating soil and water resources.

SECONDARY CONTAINMENT - All liquid hazardous material/hazardous waste must have secondary containment. In order for it to be effective it must:

1. Hold 10% of the total hazardous material/hazardous waste stored or 100% of the largest container.
2. Have sand and/or pallets placed in certain areas to protect the liner.
3. Have overhead cover.

You should continually keep your hazardous material/hazardous waste areas clean and orderly by applying the principals of Monitoring and Housekeeping. An easy way to remember what to check, is

In any spill situation:

1. **Safety First!** -- Protect yourself by using PPE, including goggles, gloves, and suits. THEN...
2. Do the **SPILL DRILL – REACT:**

REMOVE THE SOURCE: Plug the drip or leak and stop the spill.

ENVELOP THE SPILL: Place absorbent booms around the spill area, or build an earthen dam, when appropriate, around the spill.

ABSORB/ACCUMULATE: Place appropriate absorbent material (Dry Sweep, pads, etc.) on the spill in the middle of the boomed-off area.

CONTAINERIZE THE HAZARDOUS WASTE: Use a shovel to place contaminated materials (including soil, booms, pads or other materials) in a plastic bag or a waste drum.

TRANSMIT A REPORT: If a spill is too large to handle alone, - REACT as best you can and get help!

See Appendix D of the ASP for specific REACT actions for spills involving:

- **Minor Spills** (20 gallons or less);
- **Intermediate Spills** (from 21-55 gallons); and
- **Major Spills** (more than 55 gallons), or any spill into water, where injuries occurred or where spills occurred off Fort Benning associated property.

In addition:

- Prevent hazardous material from entering storm sewers and waterways;
- Minimize impacts to vegetation and wildlife; and
- Notify proper personnel and maintain record of spill event.

Acronyms are defined in the ASP Table of Content

Summary Spill Kit and Response Material Checklist	
Spill Kits and Response Material	Primary Contents
<p>Spill kits should be maintained in and around all locations where hazardous material and hazardous waste are stored, handled, or disposed.</p> <p>The contents of a spill kit will vary depending on the hazardous materials and their characteristics.</p> <p>Hazardous materials other than POL will require spill kits to meet their specific requirements, (i.e., acid spill kit for Battery Shop that handles lead acid batteries).</p>	<p>Spill kits should include as a minimum:</p> <ul style="list-style-type: none"> ✓ Rubber gloves, ✓ Safety goggles, ✓ Putty, rubber mallet, ✓ Wooden plugs, ✓ Absorbent booms, ✓ Absorbent pads, ✓ Plastic bags, and ✓ In some cases, a disposal barrel.
<p>The Unit/Activity must check the material's MSDS for specific information on PPE and spill supplies.</p>	<p>Units/activities transporting hazardous materials should also plan for having a minimum amount of response materials on hand.</p> <ul style="list-style-type: none"> ✓ Various types of kits can be ordered through the U.S Army Supply System (through the Units supply or S-4 shop); ✓ The Unit/Activity must assess their hazardous material inventory and plan to have enough spill response material to respond to the larger container within their facility and the minimum for any specific hazardous material that require specific spill materials or PPE; and ✓ Whenever the Unit gets to this minimum level, the user should initiate a reorder to the supply NCO or S-4 to maintain the minimum amount on-hand.

Acronyms are defined in the ASP Table of Contents

- ✓ **Hazardous Materials other than POL will require spill kits to meet their specific requirements. The Unit/Activity should check the MSDS for the materials that they transport and have appropriate amount for those particular materials.**



Krilling Range

Jamestown Road

10

9

8

7

6

5

4

3

2

1

COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK Marksmanship Training and Competition, Krilling Range pg.1 &2	2a. DTG BEGIN 21 June 2012	2b. DTG END 20 June 2013	3. DATE PREPARED (YYYYMMDD) 20120612
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4. PREPARED BY		
a. LAST NAME Hampton	b. RANK SFC	c. POSITION USAMU, ACTION SHOOTING PSG

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?
Conduct Small Arms Training, Matches, and Qualifications.	Personnel injury due to accidental discharge of a weapon.	M	Weapons only loaded and unloaded on the firing line. Shooters extensively trained in Weapons and Range Safety. Weapons maintained to high standards. Gunsmiths inspect all weapons.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications.	Personnel injury due to accidental discharge of a weapon.	M	Range Officer and Range Safety Officer must complete Range Safety Class. Combat Lifesaver and bag on range. Eye and Hearing protection available and must be worn.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications.	Personnel injury due to accidental discharge of a weapon.	M	Armed Forces Personnel, Civilians, VIP, and Junior Shooters will have Military supervision. Liability Form must be signed prior to shooting. Junior Shooter's consent signed by an adult.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications.	Unauthorized Personnel are downrange during firing	H	Range opened and closed with Range Control. Range flag and barricades in place during firing. Firing terminated during periods of limited visibility of 50 to 75 meters.	M	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications.	Unauthorized Personnel are downrange during firing	M	Cease Fire implemented if authorized personnel observed down range. 100% monitoring of the Range Control Radio.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Daily Risk Management Worksheet	General Range Hazards	M	OIC, RSO, and Safeties will brief on hazards listed on the Daily Risk Assessment Worksheet.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	

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 King	b. RANK LTC	c. DUTY POSITION USAMU Commander	d. SIGNATURE KING.DON.ALEX.JR.1026262889

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?
Conduct Small Arms Training, Matches, and Qualifications.	Range/ General Situational Awareness	M	THE RANGE OFFICER IN CHARGE (OIC/ NCOIC) WILL DO THE FOLLOWING: 1. Read and Review the Risk Assessment. 2. Senior Unit Representative will conduct a	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications.			daily risk assessment in consultation with range cadre representatives and annotate in writing on the CRMWS. He/She has taken into account Personnel, Environment, and Equipment.		IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications.			3. Ensure Cadre, Combat Lifesaver, and a dedicated evacuation vehicle are available. 4. Identify Soldiers with impeding medical problems that may impact training.		IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications.			5. Review evacuation and reporting procedures for serious incidents. 6. Ensure Soldiers have been allowed at a minimum 6 hours of rest in the previous 24 hrs.		IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications.			7. Observe down range for any fires. 8. Call Cease Fire if a fire has the potential to cause harm to Soldiers, Structures, and or damage range equipment.		IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications.	Specific Hazards: Hearing and Sight Loss	H	All personnel on the range are required to wear eye and ear protection at all times. Unit Personnel are enrolled in the FB Occupational Health Screening Program.	M	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications.	Specific Hazards: Hearing and Sight Loss	M	MEDPROS requires annual PHA, in which Hearing and Vision are tested to determine deterioration of eyes or ears.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Heat / Cold Awareness Foul Weather Lightning	Injury due to extreme Heat / Cold Foul Weather Lightning	M	Weather and Temperature will be monitored at all times. Training is halted during foul weather conditions when lightning is within 5mi. Weather updates disseminated from Range Control.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Heat / Cold Awareness Foul Weather Lightning	Injury due to extreme Heat / Cold Foul Weather Lightning	M	In the event that lightning is present, all personnel will move inside section building. All equipment will be grounded. 100% monitoring of radio. 100% accountability maintained.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
General Range Awareness	Minor Body Injury Cuts Or Falls	M	Brief Personnel on tripping hazards: Rocks, Branches, Fallen Trees, and Creek Beds.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	

COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK Marksmanship Training and Competition, Krilling Range (pg. 3-4)	2a. DTG BEGIN 20 June 2012	2b. DTG END 20 June 2013	3. DATE PREPARED (YYYYMMDD) 20120612
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4. PREPARED BY		
a. LAST NAME Hampton	b. RANK SFC	c. POSITION USAMU, ACTION SHOOTING PSG

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?
Heat / Cold Awareness Foul Weather	Personnel Injury: Due to Extreme Heat and Cold / Foul Weather	L	All Soldiers are trained in Preventive Medicine. Training is halted during Foul Weather condition. Be aware of the current Heat Category. Replace fluids at the following rate:	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Heat / Cold Awareness Foul Weather	Personnel Injury: Due to Extreme Heat and Cold / Foul Weather		HEAT CAT 1 1/2 QT/HR HEAT CAT 2 1/2 QT/HR HEAT CAT 3 3/4 QT/HR HEAT CAT 4 3/4 QT/HR		IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Heat / Cold Awareness Foul Weather	Personnel Injury: Due to Extreme Heat and Cold / Foul Weather		HEAT CAT 5 1 QT/HR Water available from portable water cooler. Daily fluid intake will not exceed 12 QTS. Previous heat/cold injuries will be identified.		IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Heat / Cold Awareness Foul Weather	Personnel Injury: Due to Extreme Heat and Cold / Foul Weather	M	During cold weather all personnel will have adequate cold weather clothing available.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
General Range Awareness	Insect Bites	M	Personal will be identified, as to being allergic to insect bites. These personnel will have their own kit on their person.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
General Range Awareness	Insect Bites	M	For those individuals not identified as being allergic and they suffer an insect bite reaction, 911 will be called for emergency assistance.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	

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 King	b. RANK LTC	c. DUTY POSITION USAMU Commander	d. SIGNATURE KING.DON.ALEX.JR.1026262889

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?
Weapons Cleaning	Cleaning Solvents may ignite causing a fire.	M	All weapons cleaning performed in well ventilated area, no smoking in range facilities. No Smoking signs are posted within the area.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Weapons Cleaning	Cleaning Solvents may ignite causing a fire.	M	Used cleaning solvents/materials properly stored/disposed of IAW HAZMAT Regulations, Fire Fighting equipment on hand and serviceable.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications	Bullet/Fragment/Steel Target injuries from Ricochet Area.	H	Artificial barriers installed, dirt berms installed, fixed firing points, steel targets angled downward to control splatter. All shooters are highly trained.	M	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications	Bullet/Fragment/Steel Target injuries from Ricochet Area.	H	Shooter's are briefed minimum safe distance from steel targets. All steel will be placed in accordance with the USAMU Steel SOP.	M	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
General Range Awareness	Downrange Movement to Set Up, Repair, and Take Down Targets.	M	Upon occupation of the Range, an opening code will be requested from Range Control. Once the opening code is received the flag will be put up.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
General Range Awareness	Downrange Movement to Set Up, Repair, and Take Down Targets.	M	At that time a request will be made to go downrange to set up the targets for that day's course of fire.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
General Range Awareness	Downrange Movement to Set Up, Repair, and Take Down Targets.	M	Once back from downrange, the range barricades will be put in place, and Range Control will be notified that all personal are back.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
General Range Awareness	Downrange Movement to Set Up, Repair, and Take Down Targets.	M	Before any firing takes place, the question "Is everyone back from downrange?" will be asked loudly, three times over the P.A. System. At that time training will commence.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
General Range Awareness	Downrange Movement to Set Up, Repair, and Take Down Targets.	M	Once the days training is complete, a request will be made to go downrange to retrieve targets. After all personal are back, a request for a closing code will be made.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
General Range Awareness	Downrange Movement to Set Up, Repair, and Take Down Targets.	M	Once the closing code has been received, the range flag will be taken down and all personnel will depart the Range.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	

COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK Annual Marksmanship Training	2a. DTG BEGIN 20130601	2b. DTG END 20140531	3. DATE PREPARED (YYYYMMDD) 20130520
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4. PREPARED BY		
a. LAST NAME PACE, WILLIAM T.	b. RANK SFC	c. POSITION USAMU, Action Shooting Section, PSG

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?
Conduct Small Arms Training, Matches, and Qualifications.	Personnel injury due to accidental discharge of a weapon.	M	Weapons only loaded and unloaded on the firing line. Shooters extensively trained in Weapons and Range Safety. Weapons maintained to high standards. Gunsmiths inspect all weapons.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications.	Personnel injury due to accidental discharge of a weapon.	M	Range Officer and Range Safety Officer must complete Range Safety Class. Combat Lifesaver and bag on range. Eye and Hearing protection available and must be worn.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications.	Personnel injury due to accidental discharge of a weapon.	M	Armed Forces Personnel, Civilians, VIP, and Junior Shooters will have Military supervision. Liability Form must be signed prior to shooting. Junior Shooter's consent signed by an adult.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications.	Unauthorized Personnel are downrange during firing	H	Range opened and closed with Range Control. Range flag and barricades in place during firing. Firing terminated during periods of limited visibility of 50 to 75 meters.	M	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Conduct Small Arms Training, Matches, and Qualifications.	Unauthorized Personnel are downrange during firing	M	Cease Fire implemented if authorized personnel observed down range. 100% monitoring of the Range Control Radio.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	
Daily Risk Management Worksheet	General Range Hazards	M	OIC, RSO, and Safeties will brief on hazards listed on the Daily Risk Assessment Worksheet.	L	IAW: Krilling Range SOP USAMU SOP MCOE Reg 350-19 AR 385-63 DA Pam 385-63	Range PSG RSO, OIC Line Safety Combat Lifesaver	

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

13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check one)
<input type="checkbox"/> LOW <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> HIGH <input type="checkbox"/> EXTREMELY HIGH

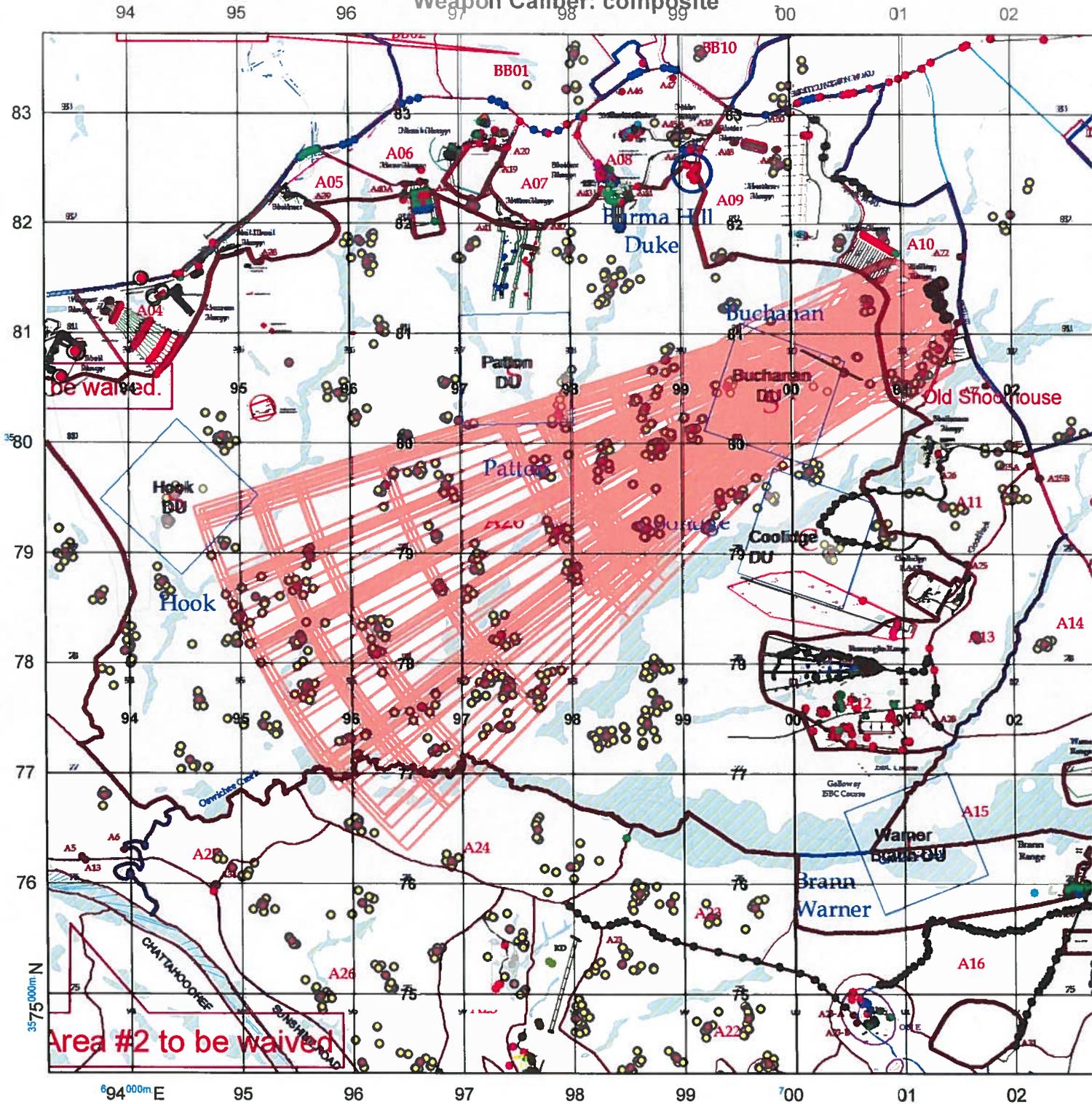
14. RISK DECISION AUTHORITY			
a. LAST NAME King	b. RANK LTC	c. DUTY POSITION USAMU Commander	d. SIGNATURE KING.DON.ALEX.JR.1026262889

Krilling Range USAMU Marksmanship Training (Log #10-06-15) Roadblock List.

BLOCK	GRID	LOCATION	TYPE
A-1	911 792	Across firebreak 200m down Fiske Range at right end of KD berm. Permanently closed.	Cable
A-2	910 783	Off Sightseeing Rd on unnamed trail opposite of entrance to LRC.	Gate
A-4	925 766	Off Sunshine Rd 1,200 m W. of entrance to Grandstaff range.	Gate
A-5	936 762	Across entrance road to Grandstaff Range. 10m N. of Sunshine Rd.	Gate
A-6	939 763	Off Sunshine Rd 100m W. of Oswichee Creek. Permanently closed.	Cable/ Berm
A-8	968 740	Across unnamed trail 30m N. of Sunshine Rd and 800m N.W. of entrance to Griswold Range.	Gate
A-10	018 730	Across entrance road to Flint Range. 50m N. of Sunshine Rd.	Gate
A-11	019 731	Across Lumpkin Trail 30m N. of its intersection with Sunshine Rd.	Gate
A-11A	032 729	Rd guard pos # 2 for Gamsey Rng Obj 'E' (intersection Jamestown/Sunshine Rd's	Rd Grd # 2
A-12	033 742	Across Gamsey Rd 50m W. of its intersection with Jamestown Rd.	Gate
A-12A	029 744	Across Gamsey Rd 400m W. of A-12 Roadblock.	Gate
A-12B	028 741	Across trail 150m SW of A-12A Roadblock. 50m W. of Range Bldg.	Gate
A-12C	036 746	Road guard position # 3 for Gamsey Rng Objective 'E' (Jamestown at Lightning Rd)	Road Guard # 3
A-13	936 762	Across Sunshine Rd 10m E. of the entrance to Grandstaff Range. (Road guard location)	Gate
A-14	974 733	Across Sunshine Rd 10m W. of the entrance to Griswold Range. (Road guard location)	Gate
A-15	021 799	Across entrance road to Buchanan Range.	Gate
A-15A	021 798	Gate Across Good Luck Rd	Gate
A-15B	022 796	Road guard position # 1 for Gamsey Rng Objective 'E' (Jamestown road SW corner of Engineer building)	Road Guard # 1
A-18	993 828	Across Buckeye Rd 225m S. of its intersection with 1st Div Rd. and 50m E. of entrance to Duke Range	Gate
A-19	973 825	Across entrance road to Patton Range 400m S. of its intersection with 1st Div Rd.	Gate
A-20	974 827	Across entrance road to Dianda Range. 300m S. its intersection with 1st Div Rd.	Gate
A-22	015 817	Across unnamed trail 50m N. of Brinson Range and 10m off Jamestown Rd.	Gate
A23	983 756	Across Lumpkin Trail 200m E. of Griswold Range	Gate
A-23A	005 748	On Lumpkin trail 50m NW of Objective 'E' on Gamsey Range.	Gate
A-23B	005 747	Adjacent to A-23A gate on trail near intersection of Lumpkin trail	Install Gate
A-24	015 811	10m inside entrance gate of Brinson Rng south of entrance road.	Gate
A-25	016 789	Across fire break 10m W. of its intersection with Good Luck Rd.	Gate
A-26	013 798	On L/S of Buchanan Range 50 meters W. of chow area across entrance to fire break.	Cable
A-27	018 805	Across unnamed trl 175m N of intersection of Hourglass and Jamestown roads	Gate

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

FOU Unclassified
Weapon Type: SMALL ARMS
Weapon Caliber: composite



Range Manager Signature Authority: Mr. Tesch	Date: 30 Nov 15	<i>[Signature]</i>	
Approving Authority: John T. Flores	Date: 30 Nov 15	<i>[Signature]</i>	
SDZ Created By:	Date: 10/27/2015	Unit: AMU	Phone:
SDZ Name:	Email:		