

FIRING/NONFIRING DATA

Log # 11-11-11

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: 28 November 2011
Range: BURROUGHS RANGE
Title: Sniper Live Fire Training / International Sniper Competitions
Problem No: WASN # 18, 19, 20, 21, 34, 42, 45, 46, 51

THRU: S-3, 2/29th IN REGT
Fort Benning, GA. 31905

FROM: U.S ARMY SNIPER SCHOOL
Fort Benning, GA. 31905

SECTION I, TYPE OF TRAINING

a. Live Fire b. Non-live Fire CP/Controller Coordinates: GA 0074 7797

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

Coordinates	Type	Model/DODAC	Size of Charges
Stress Fire GA 0110 7792 to GA 0075 7793	Smoke, Hand Grenade	G945	N/A
"	Parachue Flare, White	L312	N/A
"	Simulator, Proj Grnd Burst M115A2	L594	N/A
See Coordinates Below	"	"	"

SECTION III, WEAPONS/AMMUNITION REQUESTED

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
Left Side FL GA 0072 7793 to Right Side FL GA 0073 7800	M16A1-A4, M4, AR15	5.56mm Ball, .223	4730	5270
"	M24, SR25, AR10, M40A3, M14, M21, M110	7.62mm Ball (M118 LR)	"	"
"	M82A1-A3 Barrett, M107	.50 cal Ball (A531, A552, A553)	"	"
Continuation on Page 2				

SECTION IV, LIVE FIRE EXERCISES Attach the following:

SECTION V, NON-LIVE FIRE TRAINING

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

Name/rank of requesting officer:
Hughes, Joel D., Cjv, Operations, USASS

Name/rank of Major Unit S3/Commander:
Lowe, Melvin E., MAJ, IN

SECTION VI, FOR RANGE DIVISION USE

DATE: 9 JAN 12

TO: S-3, 2/29th IN REGT
Fort Benning, GA. 31905

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

a. Roadblocks to be closed: A2, A4, A5, A8, A18, A23A, 32, 33, 34, 38, 39

b. Road(s) to be closed/road barrier locations:

c. Remarks: This packet requires a valid waiver for execution.

d. This approval expires: **Indef**

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

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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

24 August 2011

MEMORANDUM FOR Commander, C Co., 2/29th IN, Attn: Mr. J. Hughes, Fort Benning, GA
31905

SUBJECT: Burroughs Range Sniper Live Fire (SDZ Deviation) Safety Review

1. References.

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

2. Concur.

3. Point of contact is Mr. Michael W. Risher II, MCoE/Fort Benning Safety Office, Comm. (706) 545-8278, Govt. Cell. (706) 604-7249, michael.w.risher@conus.army.mil

for MWR
JILL E. CARLSON
Director, MCOE/USAG Safety



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
C COMPANY, 2ND BATTALION 29TH INFANTRY REGIMENT
197TH INFANTRY BRIGADE
BUILDING 4883, HARMONY CHURCH
FORT BENNING, GEORGIA 31905-4420



ATSH-INB-C

22 July 2011

MEMORANDUM FOR RECORD: Chief Range Control, Directorate of Plans, Training and Mobilization

SUBJECT: Range Safety Waiver for firing at Steel Targets for Sniper Live Fire Training (POI), International Sniper Competition and Vendors / Civilian Shoot (Burroughs Range), and a small portion of the SDZ that touches Red Cloud Range.

The U.S. Army Sniper School has been using steel targets since 1987. This is our 21st year of shooting on steel and there has never been a reportable incident involving the use of steel targets on our ranges. As stated in Army Field Manuals, Army Safety Regulations, Department of the Army Pamphlets, Memorandums, and TC 25-8 that support proper safety techniques, Army marksmanship will always be hazardous. The awareness of the inherent risks allow us to develop and implement controls, the use of steel targets is just one more factor to be included in our risk management program. U.S. Army Sniper School has taken precautions to ensure proper use of all steel targets is enforced. The OIC/NCOIC ensures the target positioning will not violate the Left and Right limits. The OIC/NCOIC will also ensure targets will be positioned at the base of the berm to avoid Sniper Students / Military / Vendors / Civilian Personnel from shooting over the top of the berm compartment. All steel targets will be set up and removed by U.S. Army Sniper School personnel in which the steel will be pointed downward to reduce ricochet. Sniper Students / Military / Vendors / Civilian Personnel will engage targets from a safe distance in IAW the limitations described in this U.S. Army Sniper School SOP for use of Steel Targets and the Fort Benning Form 350-19-1-E-R scenario that is in conjunction with the Range Waiver.

1. 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 our shooting course design. If we do not have steel targets to train on we will not be able to grade our students / competitors in accordance with our POI / SOP at unknown distances.
 - b) Utilizing steel targets for our training allows our 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.
 - d) Steel targets are a very important part of our Train the Trainer Courses. Steel targets allow our students / competitors to get visual and audio logical feedback as well as see

shot groups and coach down range performance without leaving the shooting position.

2. The following are some of the controls we place on the use of steel targets:

a) Rifle / Pistol

- a. Never closer than 300 yards with reactive or downward angled steel.
- b. Never closer than 300 yards for static steel for 7.62mm and below ball and 500 yards for .50 cal. ball, 300 WIN MAG, 338 Lapua ball.
- c. Never closer than 10 yards with reactive or downward angled steel and 15 yards for static steel for 9mm and below ball.
- d. Never use steel core or penetrator rounds other than M118LR ball.
- e. Never use M118LR ball closer than 300 yards.
- f. Steel will be oriented so that it presents an angle of less than 24 degrees to the shooter.

b) All Steel

- a. Never mix rifle and pistol steel. Once steel is used for rifle it is ALWAYS rifle. Firing pistol ammo on rifle steel will result in excessive fragmenting of bullets on impact.
- b. All steel targets will be commercially purchased by Ft. Benning Range Control Division with abrasion resistant Brinell hardness 500 steel-Ft. Benning approved.

3. General safety requirements remain the same, however if there is steel in any array, Eye Protection and Ear Protection is required for members, shooters, and competitors of the USASS when engaging steel targets.

4. There will always be some amount of fragments from shooting steel, once rounds impact a piece of steel and the path of fragments cannot be guaranteed. By using the guidelines we set most fragments will not reach the shooters, in which will not be capable of serious injury.

5. All use of steel targets are requested from the U.S. Army Sniper School and approved by the Commanding General of Fort Benning under each U.S. Army Sniper School Range Safety Waiver.

6. During the Vendor's Shoot, all participants will be under direct supervision and control of the Sniper School Cadre throughout the entire event and all participants will read, understand, and sign a waiver of liability prior to the event.

ATSH-INB-C

7. Based upon the type of firing conducted, as well as the low angles of elevation of firing on Burroughs Range, the height of trees, the dense wooded area, and the higher elevation; there is reduced probability of any rounds impacting into the small portion of the SDZ that touches Red Cloud Range.
8. Point of Contact for this memorandum is Mr. Hughes, Operations Manager, USASS, at (706) 544-6006.



MICHAEL W. RAUHUT
COL, IN
Commanding



DEPARTMENT OF THE ARMY
HEADQUARTERS UNITED STATES ARMY MANEUVER CENTER OF EXCELLENCE
1 KARKER STREET
FORT BENNING, GEORGIA 31905-5400

REPLY TO
ATTENTION OF

06 SEP 2011

ATSH-IN

MEMORANDUM FOR: Director, Plans, Training, Mobilization and Security, U.S. Army Maneuver Center of Excellence, Fort Benning, GA 31905

SUBJECT: Range Safety Waiver for Firing at Steel Targets for Sniper Live Fire Training (POI), International Sniper Competition, and Small Portion of the SDZ That Touches Red Cloud Range for Burroughs Range

1. References:

- a. Army Regulation 385-63, Range Safety, 19 May 2003.
- b. DA Pamphlet 385-63, Range Safety, 4 August 2009.
- c. TRADOC Regulation 385-2, TRADOC Safety Program, 23 January 2009.
- d. USASOC 385-1, Safety and Accident Prevention.

2. Areas To Be Waived: While the United States Army Sniper School is utilizing Burroughs Range, the following safety waivers are in effect (graphics at enclosure 1).

- a. Item # 1 – Waive the ricochet safety zone for steel targets (AREA W, SDZ) for 9mm, 5.56mm to 7.62mm weapon systems.
- b. Item # 2 – Waive the ricochet safety zone for steel targets (AREA W, SDZ) for the .50 cal (M107 Sniper Rifle) to include the 300 WIN MAG and 338 Lapua (Lapua ball will be less than 250 gr.).
- c. Item # 3 – Waive the small portion of the SDZ located to the far right-hand side of the SDZ that touches Red Cloud Range.
- d. Item # 4 – Allow Civilians (law enforcement, SWAT) to compete/shoot during the International Sniper Competitions.

3. Controlling Factors:

a. Part 1.

(1) Never use steel core or penetrator rounds other than ball/commercial grade ball (5.56mm); ball/commercial grade ball (7.62mm); ball/commercial grade ball (.50 cal); ball/commercial grade ball (300 WIN MAG); and 338 Lapua ball (Lapua ball will be less than 250 gr.).

(2) Steel targets will not be engaged closer than 300 yards for 5.56mm – 7.62mm and 500 yards for .50 cal., 300 WIN MAG, 338 Lapua and 10 yards for the 9mm pistol.

SUBJECT: Range Safety Waiver for Firing at Steel Targets for Sniper Live Fire Training (POI), International Sniper Competition, and Small Portion of the SDZ That Touches Red Cloud Range for Burroughs Range

(3) Static steel targets will be emplaced IAW manufacturer's instructions with a minimum of a 24 degree forward cant.

(4) Uniform for all firers and personnel within the Safety Zone will be Ballistic Eye Protection and Hearing Protection.

(5) Based upon the type of firing conducted, as well as the low angles of elevation for firing on Burroughs Range, the height of the trees, the dense wooded area, and the higher elevation; there is reduced probability of any rounds impacting into the small portion of the SDZ that touches Red Cloud Range.

b. Part 2.

(1) During the International Sniper Competition, all participants will be under supervision and control of the Sniper School Cadre throughout the entire event, and all participants will read, understand, and sign a waiver of liability (enclosure 2) prior to the event competition.

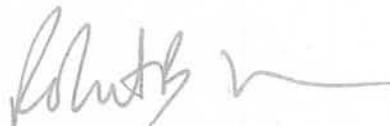
(2) Civilians (law enforcement/SWAT) competing in the Sniper Competition will show proof of two or more years of sniper training which will be on file during the competition.

(3) Civilians under the age of 18 years will not be allowed to participant in the competition.

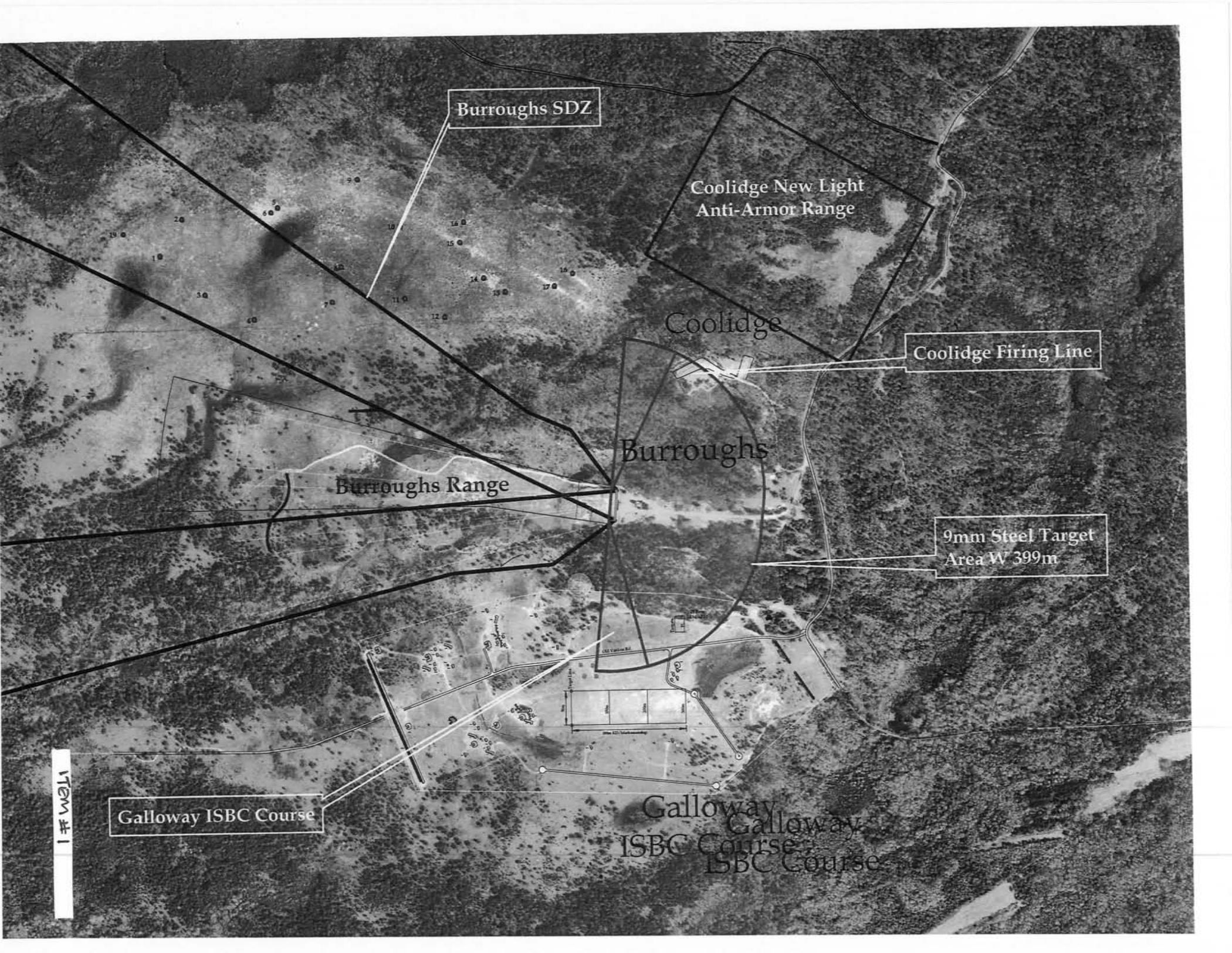
4. Risk management factors for this waiver are integrated in the unit's Risk Management Work Sheet (enclosure 3). The residual risk level is marked MODERATE.

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

6. The point of contact for this action is Mr. Joel Hughes, Operation Manager, United States Army Sniper School, (706) 544-6006.



ROBERT B. BROWN
Major General, USA
Commanding



Burroughs SDZ

Coolidge New Light
Anti-Armor Range

Coolidge

Coolidge Firing Line

Burroughs Range

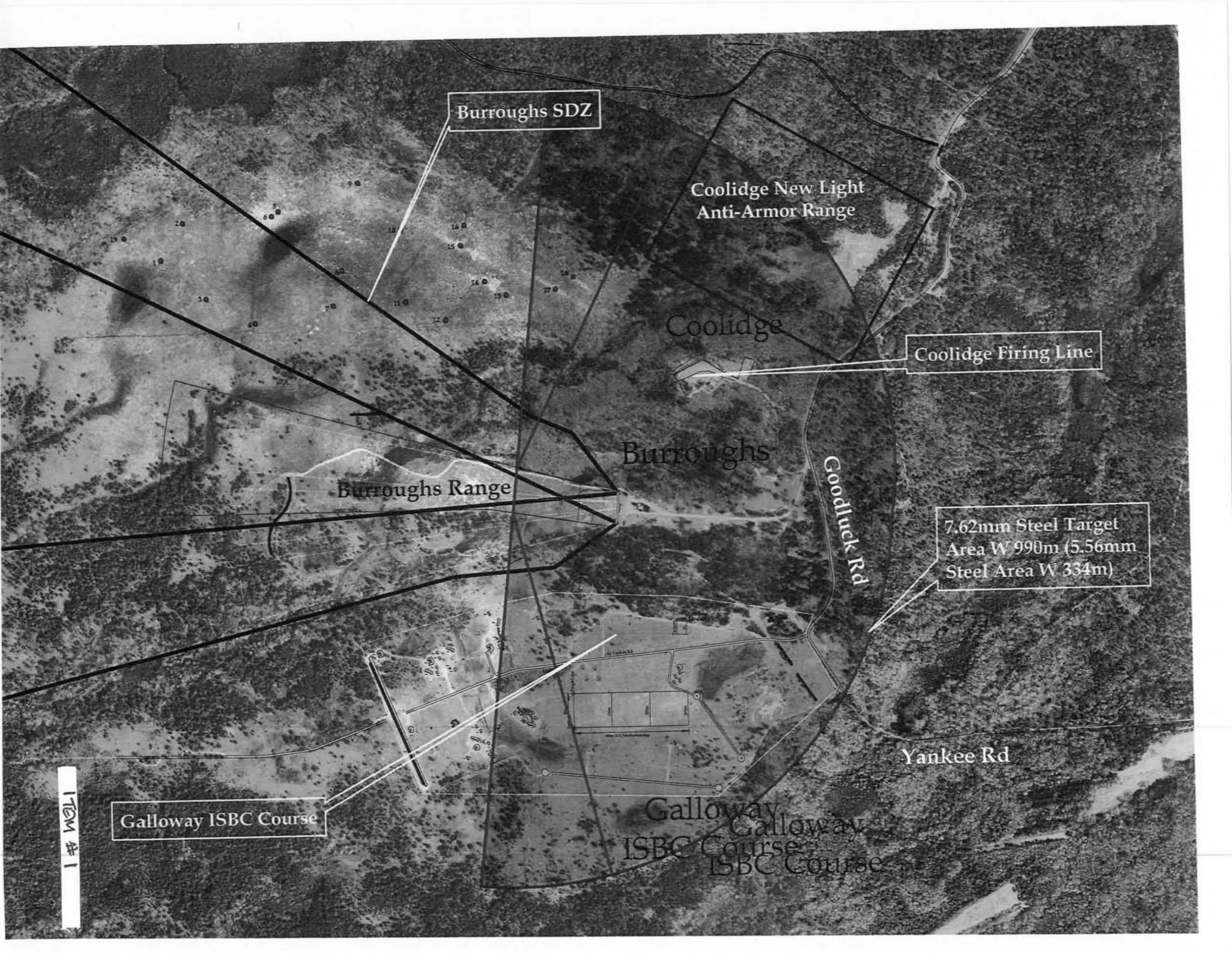
Burroughs

9mm Steel Target
Area W 399m

Galloway ISBC Course

Galloway
ISBC Course
Galloway
ISBC Course

Item # 1



Burroughs SDZ

Coolidge New Light
Anti-Armor Range

Coolidge Firing Line

Coolidge

Burroughs

Goodluck Rd

7.62mm Steel Target
Area W 990m (5.56mm
Steel Area W 334m)

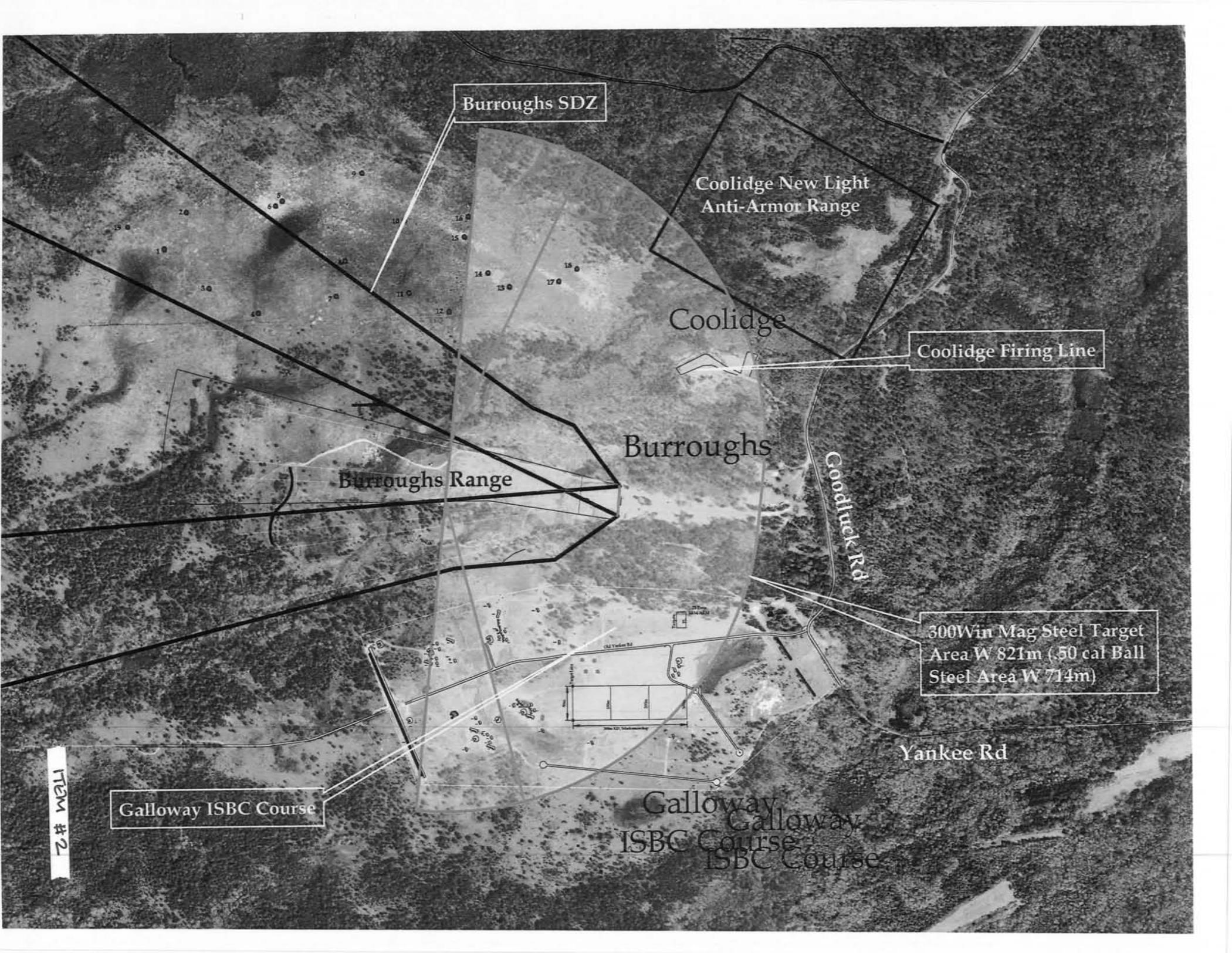
Burroughs Range

Yankee Rd

Galloway ISBC Course

Galloway
ISBC Course
Galloway
ISBC Course

ITEM # 1



Burroughs SDZ

Coolidge New Light
Anti-Armor Range

Coolidge

Coolidge Firing Line

Burroughs

Burroughs Range

Coolidge Rd

300Win Mag Steel Target
Area W 821m (.50 cal Ball
Steel Area W 714m)

Yankee Rd

Galloway ISBC Course

Galloway
ISBC Course
Galloway
ISBC Course
Galloway
ISBC Course

ITEM #2



Area to Waive

SDZ From Burroughs Range

RED CLOUD

Red Cloud
Firing Line

Concrete Trench

WEAPONS

Trench Pop-up
TARGETS

TARCEITS 14

ITEM # 3

Dixie Rd

PARKING

DEPARTMENT OF THE ARMY
UNITED STATES ARMY SNIPER SCHOOL
C Company, 2nd Battalion, 29th Infantry Regiment
Fort Benning, Georgia 31905

ATSH-INB-C

11 July 2011

MEMORANDUM FOR RECORD

SUBJECT: Burroughs Range Sniper Live Fire

1. Reference: MCOE Regulation 350-1 Chapter 3
2. Purpose: The purpose of this training is to conduct sniper live fire training in support of the Sniper School POI (Wasn # 18, 19, 20, 21, 34, 42, 45, 46, 51), International Sniper Competitions and Vendor's Shoot.
3. Range and terrain requirements: Burroughs
4. Weapons and ammunition types:
 - a. M24 SWS, M40A3, SR25, AR10, M110; M118, 7.62mm special ball LR, match
 - b. M4, M16A4, M16A2; 5.56mm Ball, AR15; .223 cal Ball
 - c. M9; .9mm Civilian/Ball
 - d. M1911A1; .45 cal Civilian/Ball
 - e. Civilian, Custom, Military, Misc. Weapons, Bolt & Automatic; 300 WIN MAG Standard & New Short Versions, Commercial/Hand Loads
 - f. M107 Barrett; .50cal Ball, M82A1-A3 Barrett; .50 cal Ball
 - g. 338 Lapua; 338 Win Mag & Lapua
5. Execution and concept of the operation:
 1. Live Fire
 - a. This exercise will be coordinated by a command post (CP) at grid GA0074 7797. The ammunition/pyrotechnics supply point, field ambulance, and transportation assets will be located 20 meters behind the firing line as we occupy for control purposes.
 - b. Sniper instructors/RSO/OIC will ensure that all sniper students/competitors understand the limits of the range prior to engaging targets.
 - c. Once the teams have received their safety briefing, they will move to their designated points and establish a position. Once positions have been established, one man from each team will draw ammunition from the ammo point.
 - d. Once in position the snipers will load their weapons.

- e. Sniper cadre/safety will designate the target to be engaged and give the snipers a verbal command to fire when ready.
 1. Each team/student will fire at designated targets downrange using the barber poles located downrange to limit their left and right directions of fire.
 2. When shooting from a position, no one will be forward of the firing line.
 3. When the students/competitors are finished firing, prior to leaving, the weapons will be cleared and put in a safe configuration before moving to the next firing position.
 4. All .50 cal and 300 WIN MAG weapons and ammunition will only be fired on lanes 2 and 3.
 5. When firing pistols at the firing line, the firers will only fire at targets 10 yards away (reactive or downward angle) and 15 yards for static steel.
 6. The firing line extends from 20 feet left of the 60 foot tower to 14 feet right of the right-most covered position.
6. Stress Fire Execution and Concept
 - a. This exercise will be coordinated by a command post (CP) at grid GA 0074 7797. The ammunition/pyrotechnics supply point, field ambulance, and transportation assets will be located 20 meters behind the firing line as we occupy for control purposes.
 - b. Sniper instructors/RSO/OIC will ensure that all sniper students/competitors understand the limits of the range prior to the exercise.
 - c. The primary instructor will give the teams/students and instructors a walk through of the exercise. Once firing positions have been established, the instructor for each position will draw ammunition/pyrotechnics from the ammo point and secure the ammunition at the firing position. The primary instructor will brief each instructor on their duties and responsibilities and the sequence of the course.
 - d. Once the teams have received their safety briefing, the teams/students will place one weapon from each team next to the tower located at grid GA 0110 7793. The weapons will be cleared and the bolts handles will be up. The teams/students will move to the designated starting point at grid GA 0110 7792.

- e. There will be one instructor at the start point to maintain accountability. The teams/students will be timed and leave as a two man team from the start point at grid GA 0110 7792 through the obstacle course to the end point at grid GA 0075 7793. While moving through the obstacle course the teams will follow the instructions of the cadre through each event. There will be a total of four (4) cadres throughout the obstacle course. While going through each event, yellow smoke grenades and artillery simulators will be igniting around them (35 meters away from teams/students) to provide stress. Teams/students will not carry their weapons while they are going through the obstacle course.
- f. Upon completion of the obstacle course, the sniper teams will move to the tower at grid GA 0072 7793, take their weapons and go up the tower to the instructor. The weapons will be carried with the sniper teams for the remainder of the event. Once they reach the top of the tower they will follow the instructor's guidance. The sniper teams will be issued a round to fire at the target designated by the instructor. Once the teams have fired their rounds, the cadre will clear the team's weapons and the teams will move down the tower and proceed to the main firing line.
- g. There will be a total one instructor per 4 students on the firing line, one instructor per firing position. The sniper teams will follow the instructions of all cadres at each firing position and at no time will the sniper teams run with live ammunition on them. The cadre will issue the sniper teams ammo at each firing position and the cadre will clear each team before they proceed to the next firing position. All sniper teams will follow all instructions of the cadre and fire only at targets between the barber poles.

7. Pistol Fire Execution and Concept

- a. This exercise will be coordinated by a command post (CP) at grid GA 0074 7797. The ammunition / pyrotechnics supply point, field ambulance, and transportation assets will be located 35 meters behind the firing line as we occupy for control purposes.
- b. Sniper instructors/RSO/OIC will ensure that all sniper students/competitors understand the limits of the range prior to the exercise.
- c. The primary instructor will give all personnel a walk- through of the exercise.
- d. Once firing positions have been established (main firing line), the instructor for each position will draw ammunition/pyrotechnics from the ammo point and secure the ammunition at the firing position. The primary instructor will brief each instructor on their duties and responsibilities and the sequence of the course. Once the teams have received their safety briefing, all personnel will follow instructions from the cadre and began firing. When firing pistols at the main firing line the firers will only fire at a target 15 meters away and all weapons will be cleared prior to leaving the firing line.

8. The following WASN #'s apply to Burroughs Range day and night:

- a. WASN 18: Field Fire with the M24/M110 Sniper Weapon System
- b. WASN 19: Elevation and Windage Hold-off
- c. WASN 20: Final Shot
- d. WASN 21: Marksmanship (Practice Record Fire)
- e. WASN 34: Night Fire
- f. WASN 42: Pistol Shooting
- g. WASN 45: Angle Fire
- h. WASN 46: Alternate Firing Positions
- i. WASN 51: Field Fire with the M107 Long Range Sniper Rifle

9. SAFETY:

a. Signals:

1. Primary means of lifting fires will be a verbal command.
2. Sniper instructors/ safeties will be at each firing point.
3. Communication will be maintained at all times (with talk-about radios) while on the firing line.

b. Medical:

1. Primary means of coverage will be on site CLS qualified instructor with CLS bag.
2. Primary means of evacuation is by a covered vehicle. The vehicle will be located 20 meters behind the firing line and evacuate casualties who are not in danger of losing their life, limb or eyesight. PZ for the air medevac is at grid GA 0070 7996 and will be marked for use with a VS-17 panel (day) and strobe light for night operations. Range control will be informed of any accidents or incidents.

c. The RSO and OIC will brief the following safety notes to every sniper:

1. All snipers are safety officers. Anyone who observes an unsafe act will immediately call for a cease-fire and stop the exercise.
2. All weapons and munitions will be discharged downrange and within the designated limits.
3. All weapons will be on safe unless actively engaging a target.

ATSH-INB-C

SUBJECT: Burroughs Range Sniper Live Fire

4. All snipers must practice muzzle awareness and point their weapons only at targets they intend to shoot.
 5. All snipers will have their weapons cleared by an instructor before leaving the firing line. No personnel will be permitted down range past the 15 meter target line.
 6. Only cadre will be authorized to use and handle pyrotechnics.
- d. Ammunition:
1. An ASP will be established 35 meters behind the firing line as we occupy. The ammo NCO (E-5 or above) will control the storage and distribution of all ammo. The sniper cadre will be responsible for the procurement of supplies (fire extinguisher, pallets, waterproofing, etc) and the establishment, maintenance and operation of the ASP. Snipers will only receive enough ammo for the live fire exercise. Upon completion of the exercise, the RSO/OIC will ensure that no one has brass residue or ammunition in their possession. All brass will be returned to the ASP.
- e. Pyrotechnics:
1. An ASP will be established 20 meters behind the firing line as we occupy. The ammo NCO (E-5 or above) will control the storage and distribution of all pyro. The sniper cadre will be responsible for the procurement of supplies (fire extinguisher, pallets, waterproofing, etc) and the establishment, maintenance and operation of the ASP. Yellow smoke and artillery simulators will only be used by the cadre, and placed or thrown 35 meters from any student/cadre.
10. The point of contact for this memorandum is Mr. Hughes, Operations, 544-6006.



DANIEL S. WILCOX
CPT, IN
COMMANDING

Burroughs Range 2-29th Sniper School Roadblock List, 15 March 2011

BLOCK	GRID	LOCATION	TYPE	BLOCK	GRID	LOCATION	TYPE
A-1	911 792	Across firebreak 200m down Fiske Range at right end of KD berm. Permanently closed.	Cable	A-28	012 774	20 meters off Yankee road on south side of Galloway range.	Gate
A-2	910 783	Off Sightseeing Rd on unnamed trail opposite of entrance to LRC.	Gate	A-28A	011 776	30 meters south of Range Tower	Gate
A-4	925 766	Off Sunshine Rd 1,200 m W. of entrance to Grandstaff range.	Gate	A-30	026 758	Across fire break leading to Garnsey Range. 140m SW of Brann Flat Range.	Gate
A-5	936 762	Across entrance road to Grandstaff Range. 10m N. of Sunshine Rd.	Gate	A-30A	027 758	Across trail leading to Garnsey Range 50m E. of A-30 Roadblock	Gate
A-6	939 763	Off Sunshine Rd 100m W. of Oswichee Creek. Permanently closed.	Cable/ Berm	A-31	020 745	Across fire break leading to Brann	Cable
A-8	968 740	Across unnamed trail 30m N. of Sunshine Rd and 800m N.W. of entrance to Griswold Range.	Gate	A-32	989 724	Across entrance road to Kunzig Range.	Gate
A-10	018 730	Across entrance road to Flint Range. 50m N. of Sunshine Rd.	Gate	A-33	974 734	Across entrance to Griswold Range.	Gate
A-11	019 731	Across Lumpkin Trail 30m N. of its intersection with Sunshine Rd.	Gate	A-33A	979 739	150 meters west of Target Systems bldg on trail leading to move to contact site	Gate
A-11A	032 729	Rd guard pos # 2 for Garnsey Rng Obj 'E' (intersection Jamestown/Sunshine Rd's	Rd Grd # 2	A-33B	982 739	20m N of Target Sys bldg on trail running on west side of bldg.	Install Gate
A-12	033 742	Across Garnsey Rd 50m W. of its intersection with Jamestown Rd.	Gate	A-34	947 760	Across entrance to Minter Hill 700m E. of Oswichee Creek.	Gate
A-12A	029 744	Across Garnsey Rd 400m W. of A-12 Roadblock.	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-12B	028 741	Across trail 150m SW of A-12A Roadblock. 50m W. of Range Bldg.	Gate	A-39	956 822	Across unnamed trail 100m S. of bldgs on Buckner Range on L. side of range	Cable
A-12C	036 746	Road guard position # 3 for Garnsey Rng Objective 'E' (Jamestown at Lightning Rd)	Road Guard # 3	A-40	967 823	Across fire break 50m down range on the left side of Pierce Range.	Gate
A-13	936 762	Across Sunshine Rd 10m E. of the entrance to Grandstaff Range. (Road guard location)	Gate	A-41	972 820	Across fire break located on the right side of the firing line on Patton Range.	Cable
A-14	974 733	Across Sunshine Rd 10m W. of the entrance to Griswold Range. (Road guard location)	Gate	A-42	978 820	Across fire break located on the left side of the firing line on Patton Range.	Cable
A-15	021 799	Across entrance road to Buchanan Range.	Gate	A-43	983 823	Across fire break located on the right side	Cable
A-15A	021 798	Gate Across Good Luck Rd	Gate	A-44	986 823	Across fire break 100m E. of the 25m flat	Gate
A-15B	022 796	Road guard position # 1 for Garnsey Rng Objective 'E' (Jamestown road SW corner of Engineer building)	Road Guard # 1	A-45	990 827	Across fire break located on the right side of the firing line on Duke Range.	Gate
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-45A	991 829	Across Booker Breach site entrance road 200m past Duke Rng entrance gate	Gate
A-19	973 825	Across entrance road to Patton Range 400m S. of its intersection with 1st Div Rd.	Gate	A-46	984 832	Across unnamed trail 100m W. of the intersection of 1st Div Rd and Ivy Rd.	Gate
A-20	974 827	Across entrance road to Dianda Range. 300m S. its intersection with 1st Div Rd.	Gate	A-47	990 833	Across unnamed trail 500m W. of the intersection with 1st Div & Buckeye Rd's	Gate
A-22	015 817	Across unnamed trail 50m N. of Brinson Range and 10m off Jamestown Rd.	Gate	A-48	995 827	Across fire break located on the right side of the firing line on Porter Range.	Cable
A23	983 756	Across Lumpkin Trail 200m E. of Griswold Range	Gate	A-49	998 827	Across fire break located on the left side of the firing line on Porter Range.	Cable
A-23A	005 748	On Lumpkin trail 50m NW of Objective 'E' on Garnsey Range.	Gate	A-50	000 830	Across unnamed trail 200m W. of entrance to Maertens Range.	Gate
A-23B	005 747	Adjacent to A-23A gate on trail near intersection of Lumpkin trail	Install Gate	A-51	031 791	Barrier on Furman Rd	Barrier 1
A-24	015 811	10m inside entrance gate of Brinson Rng south of entrance road.	Gate	A-52	034 776	Barrier on Yankee Rd	Barrier 2
A-25	016 789	Across fire break 10m W. of its intersection with Good Luck Rd.	Gate	A-53	035 776	Gate to Cole Range	Barrier 3
A-26	013 798	On L/S of Buchanan Range 50 meters W. of chow area across entrance to fire break.	Cable	A-54	046 749	Barrier off Lightning Rd on unnamed trail	Barrier 5
A-27	018 805	Across unnamed trl 175m N of intersection of Hourglass and Jamestown roads	Gate	A-55	057 759	Barrier off Lightning Rd on unnamed trail	Barrier 4

COMPOSITE RISK MANAGEMENT WORKSHEET

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

1. MSN/TASK: BURROUGHS RANGE: WASN # 04, 12, 12, 15, 45, 52, 62, Sniper Competition, Vendors Shoot	2a. DTG BEGIN 22 July 2011	2b. DTG END 21 JULY 2012	3. DATE PREPARED (YYYYMMDD) 2011/07/22
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4. PREPARED BY		
a. LAST NAME Mr. Hughes	b. RANK CIV	c. POSITION Operations Manager (Sniper School)

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?
(UNKNOWN DISTANCE QUALIFICATION) (M24 / M107 FIELD FIRE UNKNOWN DISTANCE) (TARGET DETECTION) (RANGE ESTIMATION) (FINAL SHOT) (ALTERNATE FIRING POSITIONS) (STRESS SHOOT) (SNIPER COMPETITION) (VENDORS SHOOT)	1(A). Range/General Situational Awareness	High	THE RANGE OFFICER IN CHARGE (OIC)/RANGE SAFETY OFFICER (RSO) WILL DO THE FOLLOWING: 1. READ AND REVIEW THE RISK ASSESSMENT. 2. ENSURE CADRE COMBAT LIFESAVERS AND A DEDICATED EVACUATION VEHICLE ARE AVAILABLE. INVENTORY THE COMBAT LIFESAVER'S FIRST AID BAG OF THE TRAINING UNIT. CONSULT WITH TRAINING COMPANY CADRE TO IDENTIFY PROBLEM SOLDIERS (SUICIDAL OR HOMICIDAL INTENT OR GESTURES, OR DEMONSTRATION OF SERIOUS EMOTIONAL PROBLEMS). EXCLUDE OR INDIVIDUALLY SUPERVISE HIGH RISK SOLDIERS. 3. IDENTIFY SOLDIERS WITH MEDICAL PROBLEMS HAVING THE POTENTIAL TO IMPACT TRAINING TO INCLUDE MINOR ILLNESSES, ALLERGIES, PREVIOUS HEAT AND/OR COLD WEATHER INJURIES, OR ENVIRONMENTAL SENSITIVITIES.	Moderate	1. IAW USAIC Range and Terrain Regulation 350-19-1-E-R. 2. IAW FM 5-19, Risk MGT for Operations and Training 3. IAW AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 4. 2/29 IN Regt policies on range Operations 5. Range safety brief to leaders	OIC / RSO (SEE ATTACHED MEMO)	

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 MILLER, JODY C.	b. RANK LTC	c. DUTY POSITION BATTALION COMMANDER	d. SIGNATURE

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?
(UNKNOWN DISTANCE QUALIFICATION) (M24 / M107 FIELD FIRE UNKNOWN DISTANCE) (TARGET DETECTION) (RANGE ESTIMATION) (FINAL SHOT)	1(B). ACCIDENTAL / NEGLIGENT DISCHARGE	High	4. REVIEW EVACUATION PROCEDURES AND REPORTING PROCEDURES FOR SERIOUS INCIDENTS. PLAN TO EVACUATE SOLDIERS WITH ALLERGIC REACTIONS, ANYONE WITHIN 25 METERS OF LIGHTNING STRIKES, COLD WEATHER/HEAT INJURIES, SNAKEBITE, OR ANYONE SHOWING SYMPTOMS BEYOND THE RANGE OIC'S EXPERIENCE AND THE COMBAT LIFESAVER'S ABILITY TO TREAT. THE OIC/RSO WILL DIRECT AN AIR MEDEVAC WHEN THE DANGER OF LOSS OF LIFE, LIMB, OR EYESIGHT EXISTS. 1. EVENT OIC/NCO WILL GIVE A SAFETY BRIEFING. 2. THE EVENT SAFETY OIC/ NCO WILL CLEAR AND INSPECT WEAPONS BEFORE ENTERING AND LEAVING THE RANGE. 3. EVENT OIC WILL INSURE THAT QUALIFIED COMBAT LIFESAVERS ARE ON SITE.	Moderate	1. IAW USAIC Range and Terrain Regulation 210-4 2. IAW FM 5-19, Risk MGT for Operations and Training 3. IAW AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat	OIC / RSO (SEE ATTACHED MEMO)	
(ALTERNATE FIRING POSITIONS) (STRESS SHOOT) (SNIPER COMPETITION) (VENDOR'S SHOOT)	2. FRATRICIDE	High	1. SNIPER INSTRUCTORS WILL INSURE THAT SOLDIERS ARE TEAMED IN PAIRS TO DOUBLE CHECK ALL SAFETY PROCEDURES.	Moderate	4. 2/29 IN Regt policies on range Operations 5. Range safety brief to leaders	OIC / RSO (SEE ATTACHED MEMO)	

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?
(UNKNOWN DISTANCE QUALIFICATION) (M24 / M107 FIELD FIRE UNKNOWM DISTANCE)	3. HEARING LOSS	Moderate	1. EVENT OIC/NCO WILL ENSURE THAT A SAFETY BRIEFING IS GIVEN AND HEARING PROTECTION IS AVAILABLE AND USED.	Low	1. IAW USAIC Range and Terrain Regulation 210-4 2. IAW FM 5-19, Risk MGT for Operations and Training	OIC / RSO (SEE ATTACHED MEMO)	
(TARGET DETECTION) (RANGE ESTIMATION) (FINAL SHOT) (ALTERNATE FIRING POSITIONS) (STRESS SHOOT) (SNIPER COMPETITION) (VENDOR'S SHOOT)	4. HOT WEATHER INJURIES	High	1. EVENT OIC AND EVENT SAFETY NCO'S WILL MONITOR THE TEMPERATURE AND SOLDIERS' CONDITION THROUGHOUT TRAINING. 2. THE EVENT OIC WILL MAKE SURE THAT FLUIDS (ELECTROLITE TYPE) ARE CONSUMED AT REST BREAKS AND AS NEEDED. 3. EVENT OIC WILL DIRECT UNIFORM MODIFICATIONS AS NEEDED. 4. EVENT OIC WILL FOLLOW FB FORM 7 TO CONDUCT TRAINING IN HEAT CATEGORY 2 THROUGH 5. 5. SNIPER SCHOOL INSTRUCTORS WILL CONDUCT MAN DOWN REHEARSAL DRILLS USING ICE SHEETS ONCE A MONTH DURING THE SUMMER MONTHS. (1 April thru 30 Oct) 6. SNIPER SCHOOL INSTRUCTORS WILL IDENTIFY PERSONNEL WITH PREVIOUS HEAT INJURIES PRIOR TO THE START OF TRAINING. 7. RANGE OIC / RSO WILL MONITOR AND RECORD HEAT CATS WITH WETBULB / KESTRAL DEVICE AND GET HOURLY UPDATES FROM RANGE CONTROL.	Moderate	3. IAW AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 4. TRADOC REG 350-29, prevention of heat and cold casualties 5. USAIC REG 40-14, prevention of heat injury 6. USAIC Policy Memo 350-6-2, standardized marking of soldiers at risk 7. 2/29 IN Regt policies on range Operations 8. Range safety brief to leaders	OIC / RSO (SEE ATTACHED MEMO)	

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?
(UNKNOWN DISTANCE QUALIFICATION)	7. SEVERE WEATHER INJURIES (LIGHTNING/TORNADO)	Moderate	1. EVENT OIC WILL GIVE A DETAILED SAFETY BRIEFING ON SEVERE WEATHER PROCEDURES.	Low	1. IAW USAIC Range and Terrain Regulation 210-4	OIC / RSO (SEE ATTACHED MEMO)	
(M24 / M107 FIELD FIRE UNKNOWM DISTANCE)			2. ALL SAFETY PERSONAL WILL DRILL WEATHER EVACUATION AND MEDICAL PROCEDURES QUARTERLY.		2. IAW FM 5-19, Risk MGT for Operations and Training		
(TARGET DETECTION)			3. EVENT OIC WILL ENSURE THAT COMBAT LIFESAVER WITH KIT AND COMMO ARE PRESENT PRIOR TO THE START OF THE EVENT.		3. IAW AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat		
(RANGE ESTIMATION)			4. EVENT OIC WILL IDENTIFY SEVERE WEATHER-SAFE AREAS DURING SAFETY BRIEFING.		4. 2/29 IN Regt policies on range Operations		
(FINAL SHOT)			5. ALL TRAINING WILL CEASE UPON RECIEPT OF SEVERE WEATHER FROM RANGE CONTROL OR IF LIGHTING CAN BE SEEN WITHIN 5 NAUTICAL MILES.		5. Range safety brief to leaders	OIC / RSO (SEE ATTACHED MEMO)	
(ALTERNATE FIRING POSITIONS)	8. FIRE	Moderate	1. AMMO NCO WILL ENSURE THERE IS NO SMOKING OR FLAMMABLES WITHIN 60 FEET OF THE AMMO POINT.	Low			
(STRESS SHOOT)			2. AMMO NCO WILL ENSURE THAT 2 10LB ABC FIRE EXTINGUISHERS ARE AVAILABLE.				
(SNIPER COMPETITION)							
(VENDOR'S SHOOT)							

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?
(UNKNOWN DISTANCE QUALIFICATION) (M24 / M107 FIELD FIRE UNKNOWM DISTANCE) (TARGET DETECTION) (RANGE ESTIMATION) (FINAL SHOT) (ALTERNATE FIRING POSITIONS) (STRESS SHOOT) (SNIPER COMPETITION) (VENDOR'S SHOOT)	9. Ricochet	Moderate	Lanes will be checked for ricochet hazards before training, and all snipers will be briefed on hazards during the safety brief by the OIC/RSO. The OIC/RSO will attempt to clear hazards prior to training and if the hazard can not be cleared then that lane or lanes will not be used. Snipers will cease-fire if aircraft enter zone and will be briefed only to fire at targets in their lane and not to fire at anything that may deflect the trajectory of the round. Ear and eye protection will be worn at all times while in the pit area and all commands will be given by the target pit NCOIC / Sniper Instructor. While in the pit area, all snipers to include sniper instructors will remain as close to the target pit wall as possible for protection while live firing is being conducted. Radio communications with the target pit and the firing line will be established prior to conducting live fire and will be maintained at all times.	Low	1. IAW USAIC Range and Terrain Regulation 210-4 2. IAW FM 5-19, Risk MGT for Operations and Training 3. IAW AR 385-63, policies and procedures for Firing Ammunition for Training, Target Practice, and Combat 4. 2/29 IN Regt policies on range Operations 5. Range safety brief to leaders	OIC / RSO (SEE ATTACHED MEMO)	



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
C COMPANY, 2ND BATTALION 29TH INFANTRY REGIMENT
197TH INFANTRY BRIGADE
BUILDING 74, 6650 WILKIN DRIVE
FORT BENNING, GEORGIA 31905-4420



ATSH-INB-C

7 July 2011

MEMORANDUM FOR RECORD

SUBJECT: Range Safety Officers

1. The following named individuals are assigned to C Co 2/29th IN Regt Sniper School and have attended the Ft. Benning Range Safety Class (RSO) and been certified to be RSO's or OIC's on Ft. Benning Ranges.

<u>NAME</u>	<u>RANK</u>	<u>DATE</u>	<u>EXPIRES</u>
Acevedo, Samuel	SGT	28 Oct 2010	28 Oct 2012
Balboa, Derek	SSG	26 Jan 2010	26 Jan 2012
Brady, John	SSG	23 Sep 2010	22 Sep 2012
Corter, Kevin	SSG	06 July 2011	06 July 2013
Crowder, Bryan	SGT	30 Jun 2010	30 Jun 2012
Crowder, Stanford	SSG	20 Apr 2010	24 Apr 2012
Dove, Devin	SFC	23 Mar 2010	23 Mar 2012
Fernandez, Gilbert	SSG	20 Sep 2010	20 Sep 2012
Fisher, Justin	SSG	06 July 2011	06 July 2013
Espurvoa, Isaac	SSG	08 Jan 2011	07 Jan 2013
Hammond, Matthew	SSG	11 Aug 2010	11 Aug 2012
Holiday, Sean	SSG	17 Nov 2009	17 Nov 2011
Holmes, Jonathan	SGT	26 Jan 2011	25 Jan 2013
Hughes, Jamie	SFC	21 Jul 2009	20 Jul 2012
Meyer, Andrew	SGT	06 July 2011	06 July 2013
Pesamoska, Michael	SSG	12 Jan 2010	12 Jan 2012
Peterson, Glenn	SSG	26 Oct 2010	26 Oct 2012
Shepard, Ian	SSG	23 Mar 2010	23 Mar 2012
Singleton, David	SSG	20 Oct 2010	20 Oct 2012
Teixeira, Patrick	SSG	26 Jan 2010	26 Jan 2012
Vest, Richard	SFC	06 July 2011	06 July 2013

2. Point of Contact for this memorandum is Mr. Hughes, Operations Manager, USASS, at (706) 544-6006.

DANIEL S. WILCOX
CPT, IN
Commanding



RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



EMD Number: 1123502

Project#: Unknown

Project Title: SNIPER TRAINING

Description of proposed action:

During this block of instruction, students will familiarize and qualify with various sniper rifles. Each student will fire approximately 50 to 75 rounds of ammunition.

Project Location:

Burroughs, Maertens, Coolidge Left, Buchanan, Griswold, Galloway, Ruth

Amount, Description, Location of Disturbance/Digging:

N/A

Number/Types of Vehicles:

2ea-2-1/2 ton (TMP), 2ea-1-1/2 ton (TMP)

Number of Personnel:

approx 40 pax per class

Type of Ammunition:

5.56mm, 7.62mm, .50 cal, 9mm Live and Blank

Number/Types of Trees:

N/A

Size of Project Area:

Duration of Action: Start: 10/1/2011 Stop: 9/30/2012

Proponent: joel.hughes1 (706) 544-6006

Organization/Unit: US ARMY SNIPER SCHOOL, C CO 2/29TH IN REGT

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, 2012

Natural Resources - RCW

Conditions:

Michael Barron (706 544 7080), 8/25/2011

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

Concur with conditions. See attached conditions. Note locations of red-cockaded woodpeckers on attached maps. Training restrictions apply. Unit commanders must make sure that all troops know the locations of restricted areas and understand these training restrictions. This is imperative since night training may occur. Boundaries are often hard to see at night, but this is no excuse for violations to occur. Two hour time restriction is for 2 hours once every 24 hour period. Note where digging may not occur. All trenches, fighting positions, etc must be filled in prior to leaving an area. There must be no cutting down or intentional destruction of any pine trees throughout the requested area(s). Units may fire on existing ranges but must make every effort to contain their firing to the established range footprints. Targets may not be moved from their current positions nor may new targets be established without approval via a separate 144R and a site visit with this office.

CWA - Training

Conditions:

Jesse Taylor (706 545 0276), 9/2/2011

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

General SPCC Requirements: Ensure all hazardous materials are properly storage to prevent spill/discharges, to meet safety requirements for storage, and that containers are not exposed to the weather. Have adequate spill response supplies available during exercise for any spills that may likely occur. Use drip pans under vehicles and provide secondary containment for any fueling activities and hazardous material/waste storage. Locate all refueling operations and storage of hazardous materials/waste away from waterways and sensitive areas. See attached section on prevention procedures and CHECKlist (Figure 6.9.1) 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.

SPECIAL NOTE: See 2010 ASP SOP Training and Deployment.doc for further training requirements.

Hazardous Materials/Waste

Conditions:

Dudley Carson (706 545 7570), 8/26/2011

Considerations for Field Training Exercises and Range Operations

1. 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.
2. Ensure personnel know the correct procedure for handling misfires at the range:
 - Closed containers (ammunition can marked "MISFIRES") will be used for the collection of misfires at each firing range.
 - The MISFIRE container will stay closed except to add or remove misfires.
 - Misfires SHALL NOT BE COLLECTED in any open container or cardboard box.
 All excess, unused munitions (including smoke canisters) must be returned to the Ammunition Supply Point (ASP) after the range operation is complete. Defective, misfired, or otherwise unserviceable munitions may be destroyed on the range, as part of the training exercise, in coordination with EOD. 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, dated 23 July 2010.
3. Rubbish, empty containers and other waste shall be removed from the training area after the exercise. Contact EPMB for detailed information on the proper disposal of waste products resulting from the exercise.
4. Contact POC for questions or additional guidance.

EMD Number: 1123502

IJO# Unknown

Project Title: SNIPER TRAINING

Noise

Conditions:

Ellis Leeder (706 545 7576), 8/23/2011

This is normal training operations that must be conducted. If there are any noise complaints received, the Environmental Management Division IONMP and or POA programs will investigate by determining if the noise was detected by noise detection monitors, and then recommending operational noise mitigation actions to the appropriate personnel for the training actions. In accordance with the Army's policy on environmental noise management, all efforts shall be made to minimize noise annoyances to the highest extent practicable with training operations without interfering with the proposed missions. Please follow the fly friendly program avoiding no fly zones. Please follow good smoke management practices not allowing smoke to travel off Installation boundary. If any assistance or a copy of MCoE Regulation 350-19 is needed please feel free to contact Ellis Leeder at 706.545.2400 or email ellis.leeder@us.army.mil

Signature



for John E. Brown

NEPA Program Manager

Date

6 September 2011

Signature



Christopher E. Hamilton, PhD

EPMB Chief

Date

7 Sep 11

RECORD OF ENVIRONMENTAL CONSIDERATION (FB FORM 144R) CONTINUED....

RECORD NUMBER: 1123502

1. Backfill all fighting positions before leaving the training area.
2. There is one Red-cockaded woodpecker cluster in the area of Buchanan Range at centerpoint GL 01870-79902. Occupants of this range must be aware of this cluster along the entrance road to the range and that the training restrictions apply to this cluster.

There are several Red-cockaded woodpecker clusters located in the Griswold Range area. Note locations on attached map. An exception is granted to conduct live fire on Griswold Range but restrictions apply to the clusters and area adjacent to the Range (see attached). Units must not fire in the direction of the banded trees on the either side of the range. All fire should be to the north and must be concentrated at established targets. All target positions must be backstopped to minimize bullet damage to surrounding trees. These backstops must be maintained to be effective. No positions may be created, moved or expanded without concurrence with Conservation Branch. The Griswold LFX located to the west of Griswold Range in A25 is currently closed and may not be used for live fire exercises.

There are 2 RCW clusters located in the vicinity of Maertins Range at centerpoint GLs 99864-82539 and 00411-81820. Units must not fire into the tree line along the sides of the range and firing must be concentrated at established targets.

Two white bands mark cavity (nest) trees. The cluster boundaries extend approximately 200 feet from the cavity trees and are marked by signs indicating the area is an RCW cluster.

a. **Activities in cluster boundaries are limited to 2 hours with the following activities allowed:** Hasty defense-light infantry-hand digging, foot traffic, wheeled-vehicle traffic (must stay 50 feet from marked trees), vehicle maintenance, 7.62-mm and lower blank firing, artillery/hand grenade simulators, Hoffman type devices, smoke/haze operations-generators or pots (smoke can drift into, but source must be outside boundary), star cluster/parachute flare, cutting of hardwoods for camouflage (do not cut pines).

b. **The following activities are not allowed in the cluster boundary:** No other digging, establishment of command post, assembly area operations, established CS/CSS sites, live fire, noise generators, incendiary devices (including trip flares), CS/Riot gas, HC smoke, tank ditches, deliberate individual fighting positions, crew served fighting positions, vehicle fighting positions, force reduction positions, vehicle survivability postings.

c. Within ½ mile of a cluster, there is no mechanical digging within 20 feet of a mature pine tree (8 inches diameter at breast height or greater).

d. No target positions may be created, moved or expanded without concurrence with Conservation Branch.

3. Report all wildfires to Range Control ASAP.

MICHAEL G. BARRON
Wildlife Biologist, NRMB
544-7080/7319

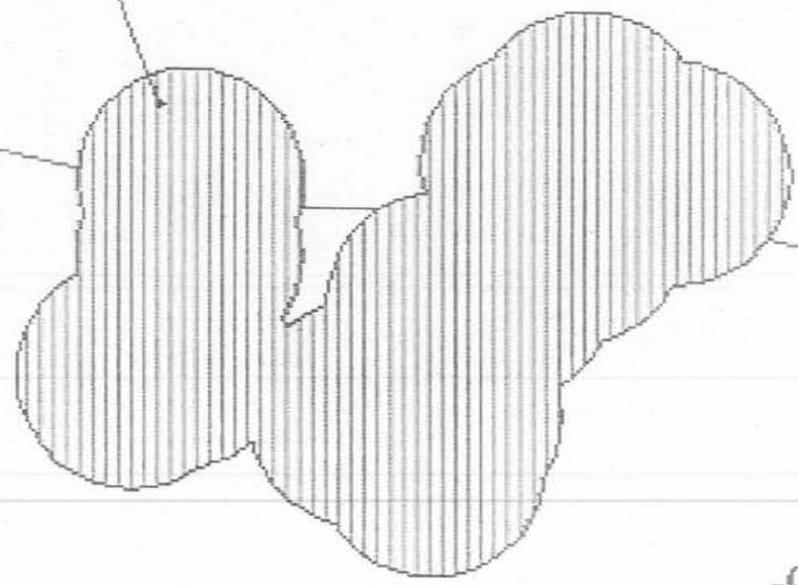
TRAINING ACTIVITY WITHIN 200' BUFFER ZONE	
Maneuver and Bivouac:	
Hasty defense, Light Infantry, Hand digging only, 2 hrs max	yes
Foot Transit	yes
Wheel/Track Vehicle Transit	yes (1)
Cutting Hardwood Camouflage	yes
Vehicle Maintenance, 2 hrs max	yes
Hasty defense, Mechanized Infantry/Armor	no
Deliberate Defense, Light Infantry	no
Deliberate Defense, Mechanized Infantry/Armor	no
Established Command Post, Light Infantry	no
Assembly Area Operations, Light Infantry, Mech Infantry/Armor	no
Established CS/CSS Sites	no
Weapons Firing:	
7.62mm and Below Blank Firing	yes
.50 Cal Blank Firing	yes
Artillery Firing Position	no
MLRS Firing Position	no
All Others	no
Noise:	
Artillery/Hand Grenade Simulators	yes
Hoffman Type Devices	yes
Generators	no
Pyrotechnics/Smoke:	
Smoke, Haze Operations, Generators or Pots	yes (2)
Smoke Grenades	yes
Star Cluster/Parachute Flares	yes
Incendiary Device to Include Trip Flares	no
CS/Riot Gas	no
HC smoke of Any Type	no
Digging:	
Hasty Individual Fighting Positions, Hand Digging Only	yes
Tank Ditches	no
Deliberate Individual Fighting Positions	no
Crew-served Weapons Fighting Positions	no
Vehicle Fighting Positions	no
other survivability/Force Reduction positions	no
Vehicle Survivability Postings	no

Note: Yes means that the activity may be conducted within 200 feet of a marked cavity tree

- (1) Vehicles (wheel and track) will not get closer than 50 feet of a marked cavity tree unless on an existing road or trail
- (2) Smoke generators and smoke pots will not be set up within 200 feet of a marked cavity tree, but the smoke may drift inside the 200 foot buffer

buchanan
range

red-cockaded
woodpecker



jamestown rd

good luck rd



red-cockaded
woodpecker

Maertens Range

Red-cockaded Woodpecker

Legend

cantonment_area

Impact Areas

RCW Tree

RCW_Cluster

<all other values>

spring_sta

ACT

INA

Ft_Benning_2010.sid

RGB

Red: Band_1

Green: Band_2

Blue: Band_3

0.02010 0.02 Miles



Example Unit/Activity SOP for Training and Deployment

Introduction

This SOP is divided into two main sections: PREVENTION & RESPONSE. The following sections will assist you in planning your environmental activities while bedding down, initiating, sustaining and conducting field exercises, and/or during deployment. Before you deploy, ensure you are familiar with the following:

What Are Hazardous Materials and Hazardous Wastes

Hazardous Materials are defined as any material that may be a health or physical hazard, or any material that, based on either chemical or physical characteristics, is capable of posing a risk to human health or the environment if improperly disposed of, handled, stored, or transported. Chemical and physical characteristics that may pose a risk to human health or the environment include, but not limited to, one of the following characteristics: Ignitable; Corrosive; Reactive and/or Toxic.

Hazardous Waste: is defined as any discarded material (solid, liquid or gas) that:

1. Has no further value and cannot be reused or recycled;
2. Is harmful to human health or the environment due to its quantity, concentration, biological, chemical or physical characteristics; and/or
3. Exhibits one or more of the characteristics as described for Hazardous Material.

Contaminated or unusable fuel is a typical hazardous material/hazardous waste common to training and deployment operations and should be handled, stored, and disposed of properly.

Ten of the most common hazardous materials/hazardous wastes that you will encounter during training and or deployment operations include:

- Fuel
- Engine Oil
- Bleach or DS-2
- Solvent
- Anti-Freeze
- Transmission Fluid
- Used Oil Filters or Batteries
- Empty POL Containers
- Brake Fluid
- Grease.

These materials should be handled, stored and disposed of properly.

SPILL KITS: Spill kits should be maintained in and around all locations where hazardous materials/hazardous wastes are stored, handled, or disposed. Various types of kits may be ordered through the U.S. Army Supply System and include: rubber gloves, safety goggles, putty, rubber mallet, wooden plugs, absorbent booms, absorbent pads, plastic bags, and in some cases, a disposal barrel.

SPILL PREPARATION: Despite the best prevention, you may run into difficulties and an accident may occur when you least expect it. To minimize contamination, hazards to people, and environmental damage, you must REACT immediately. To help you prepare, this SOP will tell you:

- **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

to remember your **CHECK** list:

Containment:

- ___ Ensure that secondary containment is used and in good condition.
- ___ Empty water within secondary containment on a regular basis and dispose of it as hazardous waste at the Hazardous Waste Collection Point.

Hazardous Material/Hazardous Waste locations:

- ___ Make sure the locations of your hazardous material/hazardous waste are well chosen.
- ___ Put up warning signs and keep them clean and orderly.

Environmental Documentation:

- ___ **Maintain MSDSs for each hazardous material and update Unit/Activity SOPs and Spill Response Plans regularly.**

Containers:

- ___ Check condition of containers and keep containers of incompatible materials in proper order.

Kits:

- ___ Place Spill Kits, First Aid Kits, and Emergency Response Kits in the vicinity of the hazardous material/hazardous waste areas.

See Appendix D of the ASP for specific CHECKlists for areas such as: Vehicle Fueling & Maintenance Areas; Hazardous Waste Collection Points; and Hazardous Material Supply & Storage Areas.

Response

Be prepared to respond immediately to any spill situation. Keep your Environmental SOP and Spill Response Plan (SRP) readily available at the main hazardous material/hazardous waste areas. The SRP should ensure that the following measures are implemented:

- **PERSONAL PROTECTIVE EQUIPMENT (PPE)** - At the entrance of every hazardous material/hazardous waste area, keep a supply of PPE to protect hands, eyes, skin, ears, head, feet, and lungs. If you are unsure about which items you need, consult the MSDS for the HMs that you are using.
- **MSDS** - Make sure that MSDSs are available in order to REACT to spills safely and effectively.
- **SPILL STATIONS** - Maintain spill response equipment at a station near (not inside of) hazardous material/hazardous waste areas. They should contain: First Aid Kits, Fire Extinguishers, Spill Response Kits, and Emergency PPE.
- **TRAINING** - Improve your readiness by practicing the SPILL DRILL on a regular basis, and be sure to know the spill reporting process.

Respond to spills, major or minor, immediately in order to eliminate hazards that could cause personal injury and/or environmental damage. If assistance is required, or spill/release is major, immediately call 911 or the Fort Benning Military Police (MP) Desk.

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

APPENDIX H

Spill Kits and Response Material Checklists

Summary Spill Kit and Response Material Checklist

Recommended Spill Kits for Unit/Activity Motor Pools, Aircraft Hanger Areas, and all POL Field Sites

Recommended Spill Kits for Fuel Carrying Vehicles

Recommended Spill Kits for Other Military Vehicles

Vehicles Transporting Hazardous Materials other than POL

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

Recommended Spill Kits for Unit/Activity Motor Pools, Aircraft Hanger Areas, and all POL Field Sites

30-Gallon POL Boom Kit: Absorbs Approx. 40 Gallons
Polyurethane 2 Rolls
55-Gallon POL Kit: Absorbs Approx. 40 Gallons
1 55 Gallon Drum
2 Bags Absorbent
6 Booms 2x10
50 Absorbent Pads
10 Heavy Duty Trash Bags

Recommended Spill Kits for Fuel Carrying Vehicles

It's recommended that all fuel carrying vehicles should have a transportation pack spill kit or equivalent spill equipment on board at all times. The following vehicles are considered to be fuel transporting vehicles: HEMITT M971 2500 gallons, Tanker 5000 gallon, M49C 1200 gallon, Tank and Pump unit 600 gallon.

The following is a list of the minimum level of spill equipment recommended to be on hand in all fuel carrying vehicles, especially if they are traveling within the Installation or in a filed exercise.

Drip Pan

30-Gallon POL Kit: Absorbs Approx. 20 Gallons

1 30 Gallon Drum
1 16 pound bag Absorbent
3 Booms 2x10
25 Absorbent Pads ~17x19
5 Heavy Duty Trash Bags
1 Dust Pan

Recommended Spill Kits for Other Military Vehicles

Recommended on Vehicle Equipment (OVE) for small spills (usually from vehicle leaks):

1 drip pan
4-5 absorbent pads
1-2 plastic bags.

Additional Materials or Equipment

For each one of these recommended spill kits, the following should be available:

PPE such as: Goggles and Gloves. (2-3 pairs)
1 Shovel
2 Labels for wastes
1 Spill report
1 Inventory

Vehicles Transporting Hazardous Materials other than POL

- ✓ Transportation of hazardous materials is regulated under the Department of Transportation. Personnel transporting hazardous materials must follow all DOT requirements.
- ✓ As a preventive measurement, vehicles transporting small amounts of hazardous materials or waste should have a transportation pack spill kit or equivalent spill equipment on board to REACT in the event of an incident.

- ✓ 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.

Spill Response Record

PHASE I-IMMEDIATE ACTIONS FOR EVALUATING AND REPORTING SPILLS:

IMMEDIATELY REPORT ALL SPILLS TO YOUR SUPERVISOR AND/OR CALL 911 or the Fort Benning Military Police (MP) Desk

****BE PREPARED TO PROVIDE THE FOLLOWING INFORMATION TO THE 911 OPERATOR:**

During Duty Hours also Call Mr. Felix Seda, EMD Spill Manager at (706) 545-9879

1. DATE/TIME OF SPILL: _____ / _____
2. LOCATION: _____
3. MATERIAL SPILLED (include NSN and ingredients, if able): _____
4. HAZARD: FLAMMABLE _____ TOXIC _____ CORROSIVE _____
OXIDIZER _____ REACTIVE _____ UNKNOWN _____
OTHER (Specify) _____
5. CAUSE OF SPILL: _____
6. DESCRIPTION OF SPILL QUANTITY, SIZE AND TYPE OF AREA AFFECTED:
 - a. Quantity Released and Size of Spill Area: _____
 - b. Soil: _____
 - c. Pavement: _____
 - d. Vegetation: _____
 - e. Storm or Sewer Drain: _____
 - f. Name of body of Water (River, Creek, Pond, Lake, Drainage Ditch): _____
7. HAS RELEASE BEEN STOPPED? _____
8. HAS RELEASE BEEN CONTAINED? _____
9. DID RELEASE CROSS INSTALLATION BOUNDARIES: (IF YES, DESCRIBE LOCATION): _____
10. TYPE AND EXTENT OF INJURIES, IF ANY: _____

****Provide a copy of this form to DPW EMD Spill Program Manager or FAX to (706) 545-4209**

PHASE II — POST-SPILL RESPONSE AND CLEAN UP ACTIONS:

11. DESCRIBE CLEAN-UP METHOD AND CONTAINMENT PROCEDURES: _____
12. NAME OF CONTRACTOR INVOLVED IN CLEAN-UP: _____
13. ESTIMATED AMOUNT OF SPILL RESIDUE AND CONTAMINATED MATERIAL REMOVED: _____
14. ESTIMATED COST OF CLEAN-UP: _____
15. CORRECTIVE ACTION TAKEN OR TO BE TAKEN TO PREVENT FUTURE SIMILAR INCIDENTS: _____
16. NAME AND PHONE NUMBER OF PERSONNEL REPORTING SPILL: _____

****KEEP THIS FORM FOR A MINIMUM OF 5 YEARS**

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 545-2180, 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.)

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: _____

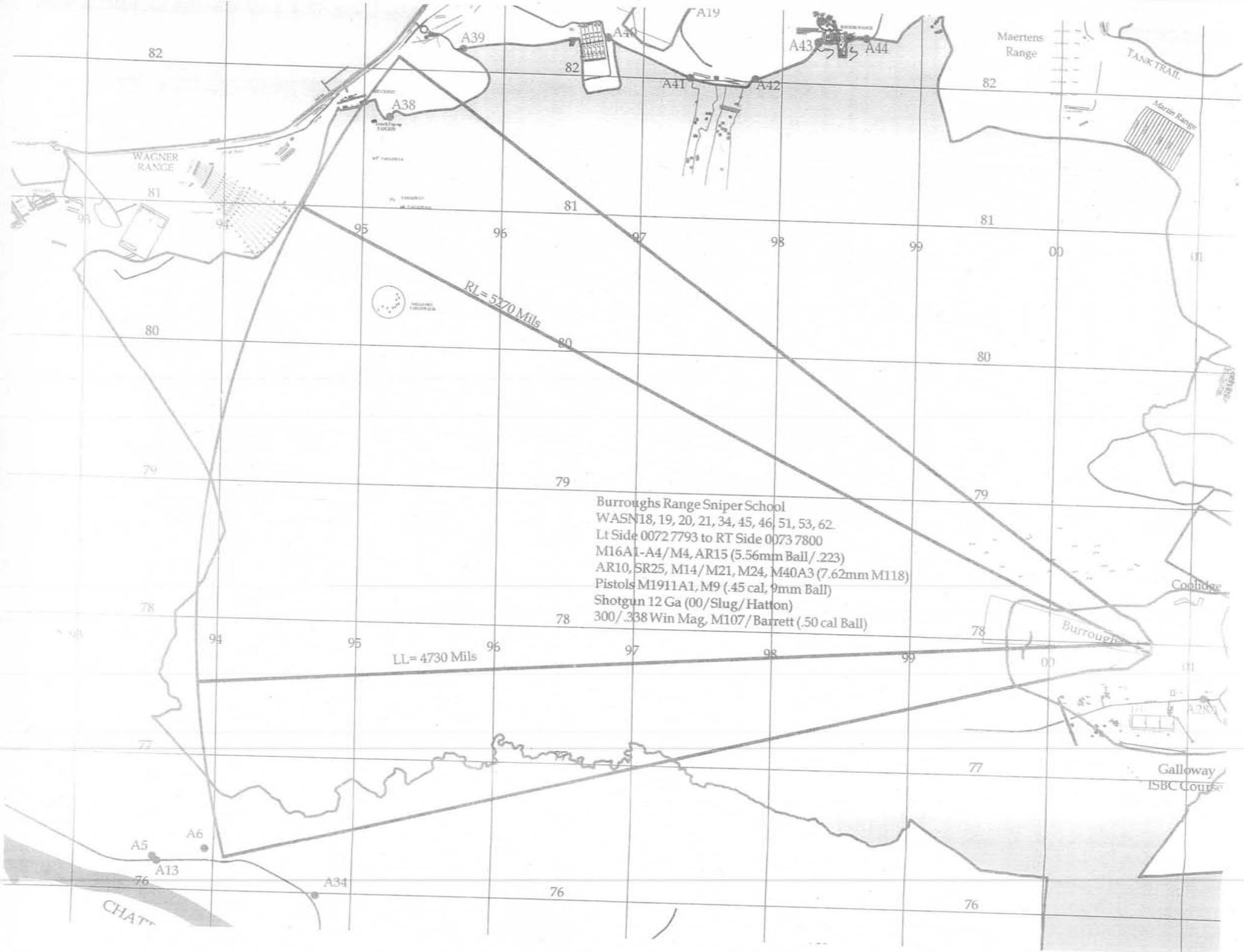
Training Area: _____

Grid Coordinates: _____

Date and Name: _____

Signature: _____

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



Burroughs Range Sniper School
 WASN 18, 19, 20, 21, 34, 45, 46, 51, 53, 62
 Lt Side 0072 7793 to RT Side 0073 7800
 M16A1-A4/M4, AR15 (5.56mm Ball/.223)
 AR10, SR25, M14/M21, M24, M40A3 (7.62mm M118)
 Pistols M1911A1, M9 (.45 cal, 9mm Ball)
 Shotgun 12 Ga (00/Slug/Hatton)
 300/.338 Win Mag, M107/Barrett (.50 cal Ball)

LL = 4730 Mils

RL = 5370 Mils

CHATT

TANK TRAIL

WAGNER RANGE

Maertens Range

Maertens Range

Conledge

Burroughs

Galloway ISBC Course

A5 A6 A13

A34

A38

A39

A40

A41

A42

A43

A44

A19

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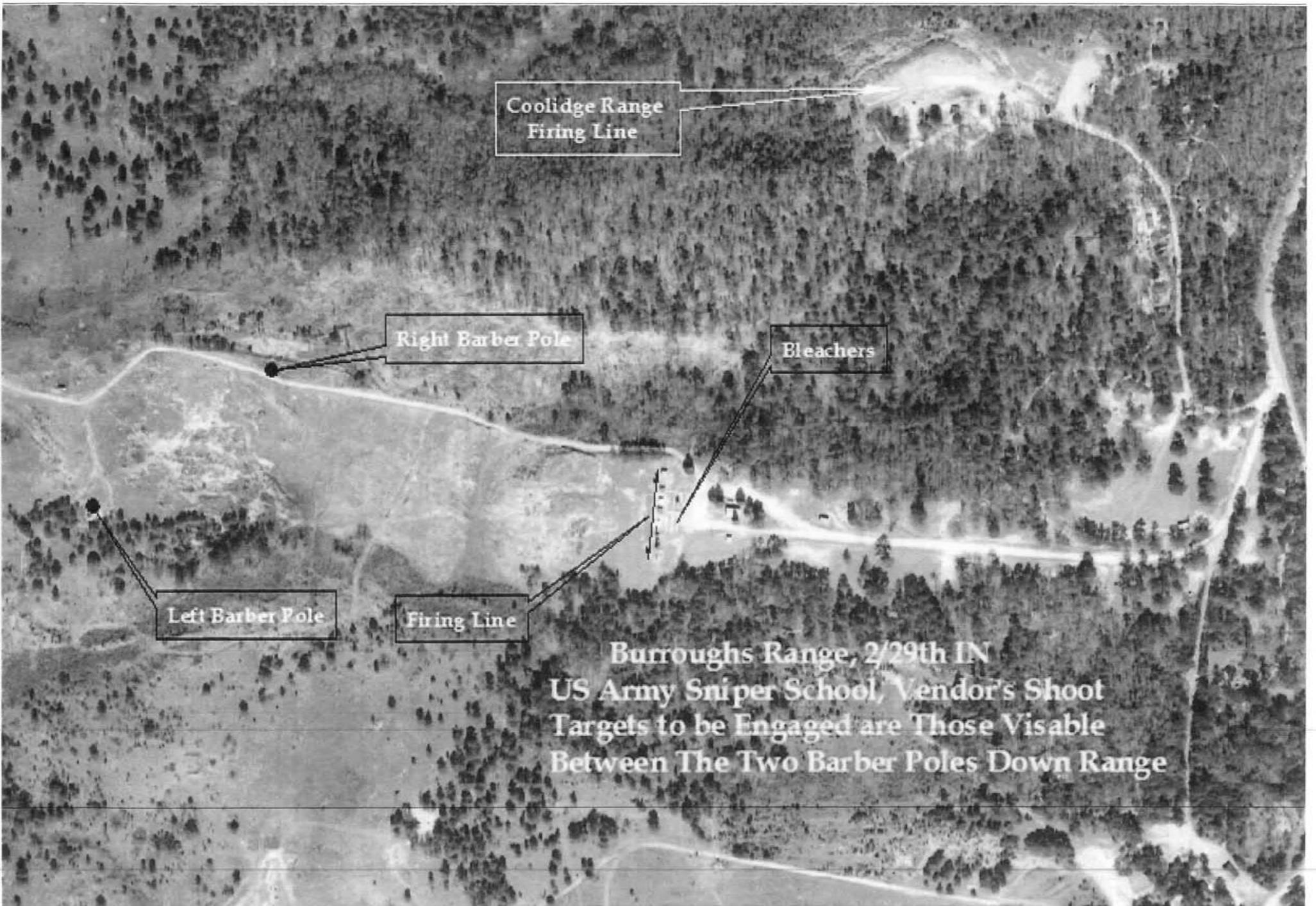
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Coolidge Range
Firing Line

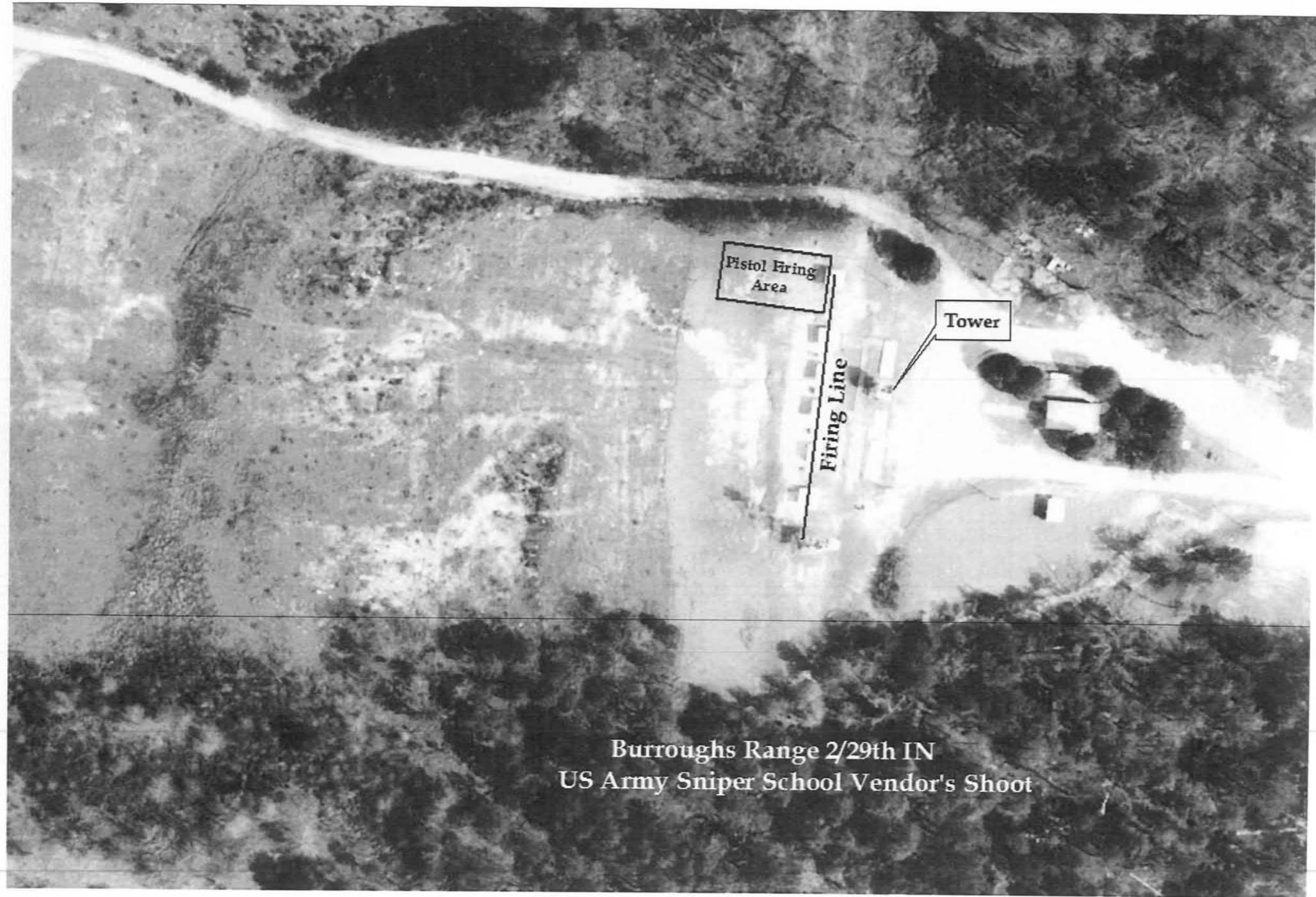
Right Barber Pole

Bleachers

Left Barber Pole

Firing Line

Burroughs Range, 2/29th IN
US Army Sniper School, Vendor's Shoot
Targets to be Engaged are Those Visable
Between The Two Barber Poles Down Range



Burroughs Range 2/29th IN
US Army Sniper School Vendor's Shoot



Right-Most Covered
Firing Position

KD Firing Line

Range Tower CP

Secondary PZ

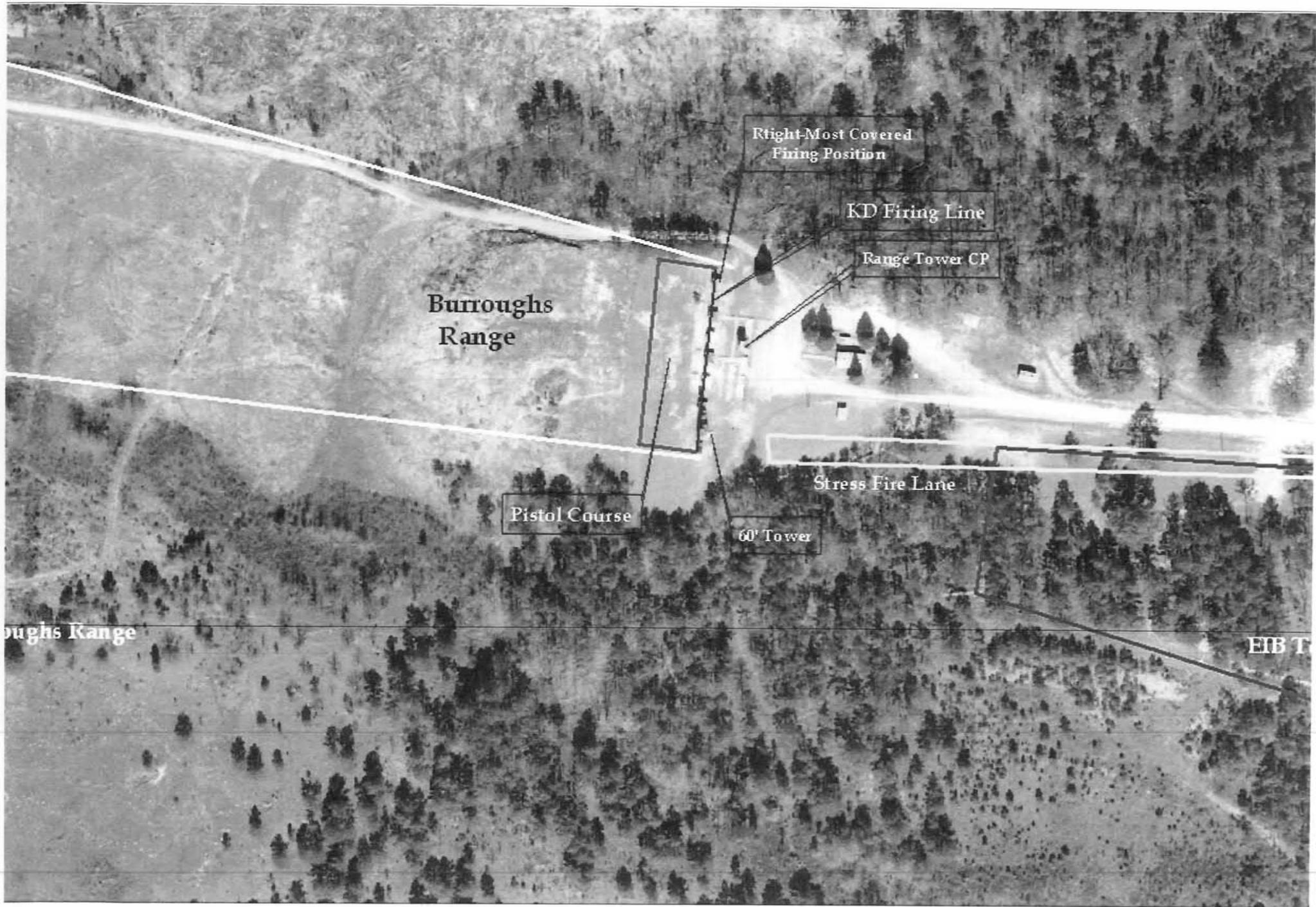
Burroughs
Range

Stress Fire Lane

60' Tower

Primary PZ

EIB Test Site



Right-Most Covered
Firing Position

KD Firing Line

Range Tower CP

Burroughs
Range

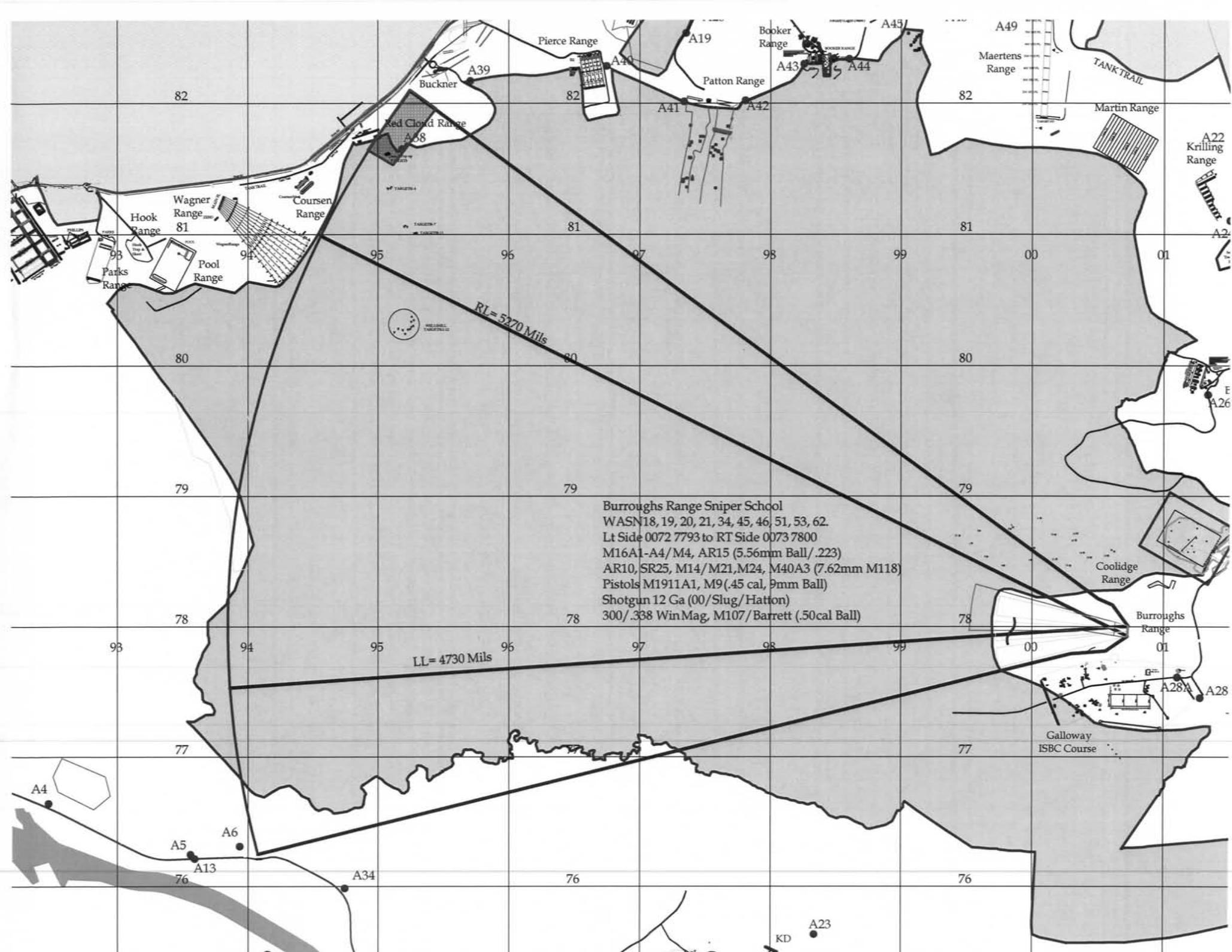
Pistol Course

60' Tower

Stress Fire Lane

Burroughs Range

EIB T



Burroughs Range Sniper School
 WASN18, 19, 20, 21, 34, 45, 46, 51, 53, 62.
 Lt Side 0072 7793 to RT Side 0073 7800
 M16A1-A4/M4, AR15 (5.56mm Ball/.223)
 AR10, SR25, M14/M21, M24, M40A3 (7.62mm M118)
 Pistols M1911A1, M9 (.45 cal, 9mm Ball)
 Shotgun 12 Ga (00/Slug/Hatton)
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RL = 5270 Mils

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A13

A34

76

KD

A23

A28

A28

E
A26

A22
Krilling
Range

Martin
Range

Maertens
Range

TANK TRAIL

Patton Range

Booker
Range

A19

Pierce Range

Buckner

Red Cloud Range
A38

Coursen
Range

Wagner
Range

Hook
Range

Parks
Range

Pool
Range

Coolidge
Range

Burroughs
Range

Galloway
ISBC Course