Policy:	B-2

NORTH	SAFETY, OCCUPATIONAL AND ENVIRONMENTAL HEALTH			
CAROLINA				
	Section: B – Safety Hazards	Policy Number: B-2		
DEPARTMENT OF				
PUBLIC SAFETY	Effective: 01/01/2012	Rescinds: 11/16/2010		
Title: Firing Ranges				

References:

Division of Prisons, Policy & Procedure Manual, Policy 3000: Firing Ranges (6-12-02)

"Best Management Practices for Lead at Outdoor Shooting Ranges," EPA-902-B-01-001, January 2001

"Environmental Aspects of Construction and Management of Outdoor Shooting Ranges," National Shooting Sports Foundation, 1997

"NRA Range Source Book, A Guide to Planning and Construction," Revised January, 2004

Purpose:

The purpose of this policy is to establish guidelines for the approval, operation, and inspection of firing ranges used by North Carolina Department of Public Safety (DPS) personnel.

Definitions:

For the purpose of this policy, these terms will be defined as follows:

Berm or backstop - refers to the mound of earth located behind the target holder. Its purpose is to absorb and contain fired projectiles.

Essential - refers to standard(s) considered necessary but may not be met by each respective firing range at inspection time. The standard(s) not met may be waived by the Safety, Occupational and Environmental Health consultant for a period not to exceed 45 days to allow time to develop and submit a written plan of corrective action for the essential standard(s) for that respective firing range.

Ground cover - includes the entire surface area of the range, which consists of soft material such as vegetation or soil, and which will not produce ricochets. Soft rubber matting is also allowed. Ranges with concrete surfaces located forward of the firing line must be recessed or shielded from bullet impact to avoid ricochets and must have approval of the Safety, Occupational and Environmental Health Director prior to range use.

Mandatory - refers to standards which, unless specifically waived by the Safety, Occupational and Environmental Health Director, must be met upon inspection of the firing range.

No exemptions - refers to standards that shall be met and for which no waivers shall be granted. Any range with deficiencies under this category shall not be approved for use until the deficiency has been abated.

Outside agencies - local law enforcement agencies; municipal, county, state and federal government agencies; and criminal justice organizations other than the Division of Prisons (DOP) and Division of Community Corrections (DCC).

Spur - the mound of earth extending in the direction of the firing lines from each end of the berm. Its purpose is to prevent accidental firing beyond the ends of the berm.

Policy:

I. The department recognizes the need to operate firing ranges in order to comply with mandatory firearms training for staff. The Safety, Occupational and Environmental Health Office shall ensure that firing ranges utilized by departmental staff to conduct mandatory and/or approved optional firearms training are safe, secure, and meet the required regulatory standards. All firing ranges used by departmental staff will be inspected annually and be approved/disapproved for use by the Safety, Occupational and Environmental Health Office.

II. Approval/Disapproval of Ranges

- A. A list of approved firing ranges will be maintained by the Safety, Occupational and Environmental Health Office. It will be distributed to the Division of Prisons, Office of Staff Development and Training, and the Division of Community Corrections annually and whenever changes are made. Any request for approval for departmental staff to use a firing range not on the list, whether or not the range is located on departmental property, will be submitted through the chain-of-command to the Safety, Occupational and Environmental Health Director. A representative of the Safety, Occupational and Environmental Health Office will inspect the range. Where appropriate, and as approved by the Safety, Occupational and Environmental Health Director, one or more of these standards may be waived or modified during use by special teams.
- B. If approved for use the range will be added to the list of approved ranges; and the individual who initiated the request will be notified in writing, via the chain-of-command, of this approval.

C. If the range is disapproved for departmental use, the individual who initiated the request will be notified in writing, via the chain-of-command, of the reason(s) for disapproval. In the event a disapproved range is subsequently brought up to standards through repair and renovation, the range may be resubmitted for approval in accordance with the above procedures.

III. Inspection of Ranges

- A. Each approved firing range will be inspected annually by the Safety, Occupational and Environmental Health Office to ensure established standards continue to be met. Departmental staff shall not utilize any firing range not on the approved list. Firing ranges will be inspected and approved based on the following standards.
- B. No Exemption standards for basic and in-service firearms training
 - 1. Backstop and spurs are made of dirt and free of debris that may cause ricochet.
 - 2. Ground cover is free of debris that could cause ricochet.
 - 3. Safety Office is notified of any renovations. Must have prior approval for DPS owned ranges.
 - 4. Inmates are not allowed on the range at any time for any reason.
 - 5. Minimum ratio of one certified firearms instructor per six students plus one range master are on site during the training for employees.
 - 6. Range has a written medical emergency plan.
 - 7. Approved hearing protectors and approved eyewear, glasses, or goggles are worn during firing.
 - 8. When in use, the range is equipped with hearing and eye protection for each participant and instructor.
 - 9. Probe backstop for ricochet hazards at two feet intervals behind targets and randomly elsewhere.
 - 10. Personal weapons are not allowed on the firing range.
 - 11. Cell phones are not allowed on the firing line.
 - 12. Water provided for consumption and sanitary purposes is available when range is in use

- 13. Restroom facilities are available on or in close proximity to range.
- C. Mandatory standards for basic and in-service firearms training
 - 1. There are a minimum of six feet space per lane and a maximum of 24 firing lanes.
 - 2. Target holder is nylon rope minimum 1/2 inch in diameter; (steel) cable for target holder is acceptable for non-DPS owned ranges.
 - 3. Firing points (3, 5, 7, 10, 15, 25, 35, 40, and 50-yard lines) are marked appropriately.
 - 4. For DPS owned ranges, control gate is kept locked except when the range is in use.
 - 5. Stocked first-aid kit is on site when range is in use.
 - 6. Approved fire extinguisher is on site when range is in use.
 - 7. Vehicle is on site when range is in use. Means of communication (telephone, two-way radio, walkie-talkie, cell phone) are on site when range is in use.
 - 8. Recreational firing is prohibited on all DPS ranges.
 - 9. Trainees' clothing is consistent with division policy.
 - 10. Instructor(s) follows range opening and closing procedures.
 - 11. Instructor(s) inspects and approve condition of weapons to be used during training.
 - 12. For DPS range, superintendent or his/her designee approves all uses of range and maintains a schedule for range use.
 - 13. For off-site range, responsible division staff member has written permission to use range from the agency controlling the range. Annual Memorandum of Agreement is on file with the DOP/DCC regional training manager and DCC division training coordinator.
 - 14. For off-site ranges, the DOP/DCC regional training manager and DCC division training coordinator or designee will ensure that a monthly inspection has been done for each assigned range if used during the monthly period. Records will be maintained in each respective office for two years.

- D. Firing range essential standards
 - 1. Minimum height of backstop is 20 feet with \geq 45 degree impact angle.
 - 2. Spurs are at least 8 feet high, 15 feet in length, and sloped at least 45 degrees. If a course of fire may require the side berm to act as a back stop, it must be 20 feet high.
 - 3. Backstop armoring is ≤ 150 pieces per sq ft.
 - 4. Removable barricades are available at the 25 yard line, and removable or fixed barricades are available at the 50 yard line.
 - 5. Red flag is flown on flag pole when range is in use. During low, limited light firing, red light (battery operated) is displayed. Ideally, it should be located at gate to provide early warning.
 - 6. Perimeter warning signs, approximately 12 inches by 18 inches displaying red letters on white background with legend "Danger Firing Range" are posted. DPS owned ranges are posted around perimeter at 100 ft intervals.
 - 7. Range is equipped with adequate tables and seating.
 - 8. Backstop and spurs are seeded with grass or some type of erosion prevention. Grass is > 4" high.
 - 9. Range is provided with an adequate public address system when in use.
 - 10. Range has a storage facility for supplies when in use.
 - 11. A set of range rules are posted. Instructor will review DPS safety rules.

E. Down range impact zone

1. All firing ranges utilized by the department shall be evaluated for a safe down range impact zone. The distance a bullet will travel varies according to several factors: ballistic coefficient, bullet weight, velocity, caliber, bullet shape, angle of muzzle elevation, and to a lesser degree, wind speed, wind direction, and relative humidity. The ballistic coefficient and muzzle velocity are the two most important factors in determining the distance a bullet will travel. The following ballistic tables will be used as a reference to check comparative data for various calibers using specific bullet weights and velocities for evaluating safe down range impact zones.

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Table A Calculated Maximum Ranges (Sharp Point Assumed)

Pistol Pistol .221 Rem Fireball 50 2650 2666 1.51 .38 110 1320 1800 1.02 .387 Magnum 158 1410 2366 1.34 .38 Super 130 1280 2033 1.26 9 mm Luger 124 1140 1900 1.08 .40 mm 180 1015 1900 1.08 .44 Rem Mag 240 470 2500 1.42 .45 Auto 230 945 1833 1.02 .45 Auto Rim 230 810 1633 0.93 .45 Colt 250 860 1800 1.02 Rifle .222 Rem 50 3200 2500 1.42 .223 Rem 55 3300 2766 1.57 .220 Swift 48 4110 2660 1.51 .243 Win 100 3070 4000 2.27 .243 Win 100 <	Bullet	Bullet Wt.	Assumed MV.	Calculated Ma	ximum Range	
.221 Rem Fireball 50 2650 2666 1.51 .38 110 1320 1800 1.02 .357 Magnum 158 1410 2366 1.34 .38 Super 130 1280 2033 1.26 9 mm Luger 124 1140 1900 1.08 .40 mm 180 1015 1900 1.08 .44 Rem Mag 240 470 2500 1.42 .45 Auto 230 945 1833 1.02 .45 Auto Rim 230 810 1633 0.93 .45 Colt 250 860 1800 1.02 Rifle .222 Rem 50 3200 2500 1.42 .223 Rem 55 3300 2766 1.57 .220 Swift 48 4110 2660 1.51 .243 Win 100 3070 4000 2.27 .243 Win 80 3500 3500 1.99 .250 Savage 100 2820 3500 1.99 .257 Roberts 100 2900 3850 2.18 .270 Win 130 3140 4000 2.27 .270 Win 150 2800 4333 2.46 7 mm Rem Mag 175 3070 4933 2.80 .280 Rem 125 3140 3700 2.10 .300 H & H Mag 180 2920 4350 2.47 .300 H & H Mag 180 2920 4350 2.47 .300 H & H Mag 180 2920 4350 2.56 .30-06 172 2600 3500 3.12 8 mm Mauser 200 2450 4500 2.56 .30-06 172 2600 350 4660 2.64 .375 H & H Mag, 270 2740 4500 2.56	Caliber/Name	(grs)	(fps)	(yards)	(miles)	
.38 110 1320 1800 1.02 .357 Magnum 158 1410 2366 1.34 .38 Super 130 1280 2033 1.26 9 mm Luger 124 1140 1900 1.08 .40 mm 180 1015 1900 1.08 .44 Rem Mag 240 470 2500 1.42 .45 Auto Rim 230 945 1833 1.02 .45 Auto Rim 230 810 1633 0.93 .45 Colt 250 860 1800 1.02 Rifle 222 Rem 50 3200 2500 1.42 .222 Rem 55 3810 2933 1.67 .22/250 Rem 55 3810 2933 1.67 .222 Swift 48 4110 2660 1.51 .243 Win 100 3070 4000 2.27 .243 Win 80 3500 3500 1.99	Pistol					
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9 mm Luger		130	1280	2033	1.26	
.44 Rem Mag	_	124	1140	1900	1.08	
.45 Auto Rim 230 845 1833 1.02 .45 Auto Rim 230 810 1633 0.93 .45 Colt 250 860 1800 1.02 Rifle 222 Rem 50 3200 2500 1.42 .223 Rem 55 3300 2766 1.57 .220 Swift 48 4110 2660 1.51 .243 Win 100 3070 4000 2.27 .243 Win. 80 3500 3500 1.99 .250 Savage 100 2820 3500 1.99 .257 Roberts 100 2900 3850 2.18 .270 Win 130 3140 4000 2.27 .270 Win 150 2800 4333 2.46 7 mm Rem Mag 175 3070 4933 2.80 .280 Rem 125 3140 3700 2.10 .300 H & H Mag 180 2920 4350 2.47 .300 H & H Mag 180 2610 4166 2.37	.40 mm	180	1015	1900	1.08	
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.257 Roberts 100 2900 3850 2.18 .270 Win 130 3140 4000 2.27 .270 Win 150 2800 4333 2.46 7 mm Rem Mag 175 3070 4933 2.80 .280 Rem 125 3140 3700 2.10 .300 H & H Mag 180 2920 4350 2.47 .300 H & H Mag 220 2620 4833 2.75 .308 Win 180 2610 4166 2.37 .308 Win 200 2450 4500 2.56 .30-06 172 2600 5500 3.12 8 mm Mauser 200 2320 4000 2.27 .338 Win. Mag 250 2700 4660 2.64 .375 H & H Mag, 270 2740 4500 2.56	.243 Win.	80	3500	3500	1.99	
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.270 Win 150 2800 4333 2.46 7 mm Rem Mag 175 3070 4933 2.80 .280 Rem 125 3140 3700 2.10 .300 H & H Mag 180 2920 4350 2.47 .300 H & H Mag 220 2620 4833 2.75 .308 Win 180 2610 4166 2.37 .308 Win 200 2450 4500 2.56 .30-06 172 2600 5500 3.12 8 mm Mauser 200 2320 4000 2.27 .338 Win. Mag 250 2700 4660 2.64 .375 H & H Mag 270 2740 4500 2.56	.257 Roberts	100	2900	3850	2.18	
7 mm Rem Mag 175 3070 4933 2.80 .280 Rem 125 3140 3700 2.10 .300 H & H Mag 180 2920 4350 2.47 .300 H & H Mag 220 2620 4833 2.75 .308 Win 180 2610 4166 2.37 .308 Win 200 2450 4500 2.56 .30-06 172 2600 5500 3.12 8 mm Mauser 200 2320 4000 2.27 .338 Win. Mag 250 2700 4660 2.64 .375 H & H Mag 270 2740 4500 2.56	.270 Win	130	3140	4000	2.27	
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.300 H & H Mag. 220 2620 4833 2.75 .308 Win 180 2610 4166 2.37 .308 Win 200 2450 4500 2.56 .30-06 172 2600 5500 3.12 8 mm Mauser 200 2320 4000 2.27 .338 Win. Mag 250 2700 4660 2.64 .375 H & H Mag, 270 2740 4500 2.56	.280 Rem	125	3140	3700	2.10	
.308 Win 180 2610 4166 2.37 .308 Win 200 2450 4500 2.56 .30-06 172 2600 5500 3.12 8 mm Mauser 200 2320 4000 2.27 .338 Win. Mag 250 2700 4660 2.64 .375 H & H Mag, 270 2740 4500 2.56	.300 H & H Mag	180	2920	4350	2.47	
.308 Win 200 2450 4500 2.56 .30-06 172 2600 5500 3.12 8 mm Mauser 200 2320 4000 2.27 .338 Win. Mag 250 2700 4660 2.64 .375 H & H Mag, 270 2740 4500 2.56	.300 H & H Mag.	220	2620	4833	2.75	
.30-06 172 2600 5500 3.12 8 mm Mauser 200 2320 4000 2.27 .338 Win. Mag 250 2700 4660 2.64 .375 H & H Mag, 270 2740 4500 2.56	.308 Win	180	2610	4166	2.37	
8 mm Mauser 200 2320 4000 2.27 .338 Win. Mag 250 2700 4660 2.64 .375 H & H Mag, 270 2740 4500 2.56	.308 Win	200	2450	4500	2.56	
.338 Win. Mag 250 2700 4660 2.64 .375 H & H Mag, 270 2740 4500 2.56	.30-06	172	2600	5500	3.12	
.375 H & H Mag, 270 2740 4500 2.56	8 mm Mauser	200	2320	4000	2.27	
.375 H & H Mag, 270 2740 4500 2.56	.338 Win. Mag	250	2700	4660	2.64	
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	O.	500	2125	4500	2.56	

Note: The above table is based upon Ingalls' Ballistic Tables, as found in Hatcher's Notebook, pages 584-625

Table B Shotgun

Shot Size (No.)	Diameter (inches)	Maximum Range (yards)	
9	.08	176	
8	.09	198	
7 5	.095	209	
6	.11	242	
4	.13	286	
2	.15	330	
# 1 buck	.30	660	
#0 buck	.32	704	
# 00 buck	.34	748	

Note: Shotgun distances are based on Journee's Formula for round lead balls. This formula states the maximum range of a smooth round lead ball is roughly 2,200 times its diameter (in inches). This formula does not hold true for steel shot.

IV. External Agencies

Outside agencies desiring use of a range on departmental property shall enter into a Memorandum of Agreement/Understanding and gain approval from the respective superintendent or his/her designee. This document represents an agreement between the North Carolina Department of Public Safety and outside law enforcement agencies (non-DPS) which allows agencies to utilize this DPS-owned firing range to the mutual benefit of all parties.

V. Safety Rules

- A. The following safety rules will be followed by all persons at all times while the range is in use:
 - 1. Use of a DPS range must be approved by the superintendent or his/her designee.
 - 2. Safety first, always.
 - 3. No alcoholic beverages or drugs, or person(s) under the influence of alcoholic beverages or drugs, will be allowed on the range.
 - 4. There will be no loaded weapons allowed except when on the firing line.
 - 5. Load only on command of the range officers.

- 6. Follow all instructions of range officers.
- 7. Keep all weapons pointed in a safe direction at all times.
- 8. No one will be allowed down-range unless the range officer signals that the firing line is clear.
- 9. Shoot only at the target in the designated firing lane. Shooting at other objects (target holders, clips, other targets, etc.) will not be tolerated.
- 10. There will be no shooting over the backstop.
- 11. Remove all used targets and backers when finished shooting. Return cardboard and other supplies to designated areas.
- 12. When training is complete clean up area before leaving the range. This includes spent cartridge casings.
- 13. No horseplay of any kind will be tolerated.
- 14. Violation of any of these safety rules will be cause for expulsion from the firing range.

VI. Maintenance, Supplies, and Personal Protective Equipment

- A. Ammunition, targets, backers, and other range supplies shall be requested as needed from the Office of Staff Development and Training.
- B. Routine maintenance and upkeep of ranges on departmental property will be the responsibility of the respective superintendent. Requests for equipment and safety supplies including, but not limited to, nylon rope, rubber matting, grass seed, etc. should be submitted via the chain-of-command through the Division of Prisons.
- C. Trainees shall utilize approved eye (glasses/goggles) and ear protection provided by the instructor. Ear muffs are the only approved protection. Minimum NRR is 21 for range protection. Disposable latex gloves will be worn during handling of brass.

VII. Environmental Concerns (DOP Ranges Only)

A. The department shall strive to maintain department owned firing ranges in a manner consistent with best management practices that reflect sound environmental stewardship. The control of lead migration and reclamation/recycling of lead shall be accomplished through the following procedures:

- 1. Mowing grass: Grass should be mowed early in the morning while it is still slightly damp to prevent generating airborne dust. Grass should be left at least four inches high. Grass must be reseeded as needed to prevent bare spots and erosion. Fescue and Bermuda grasses have been shown to absorb lead in environmental studies. Bermuda grass is also less palatable to animals.
- 2. Disturbing dirt: Berm and spurs should be sown with grass to prevent erosion. Impact areas directly behind the targets should be reseeded with grass frequently.
- 3. Soil sampling: A composite soil sample will be collected at least annually from each firing range and tested for pH and phosphate levels. This sample can be collected during the annual safety inspection of the range with the test results and any corrective actions needed reported on the inspection form.
 - a.) pH: A pH range must be maintained between 6.5 and 8.5. Spreading bags of 50 pounds (for sandy soils) or 100 pounds (for clay soils) of pelletized lime per 1000 square feet will raise the pH approximately one pH unit.
 - b.) phosphate: The phosphate index must be at least 134 to maintain sufficient nutrients for plant life. This level should be adequate to bind with any free lead on the range. Generally, 15 to 20 pounds of phosphate in rock form per 1000 square feet will effectively control lead.
- 4. Armoring the berm: A firing range shooting log will be maintained by the facility to assist with this evaluation. During each monthly and annual inspection, the berm will be evaluated for possible armoring by counting the number of visible fragments in one square foot of soil. All fragments, regardless of origin, will be counted. The results will be reported on the inspection form. A count of more than 150 pieces per square foot will require corrective action. Corrective action can be either resurfacing the berm or reclamation depending on the age, use, and condition of the range. During each inspection the berm will be probed with a two foot long rod to ensure that no large rocks or other solid objects are within two feet of the surface. The berm will be probed using a two feet square foot grid pattern behind the target impact zone. The berm can be probed at random intervals outside the target impact zone.

5. Resurfacing the berm: The berm and spurs should be surfaced with at least two feet of clean dirt that is free of rocks and other materials that could cause ricochet. Use dirt with high clay content. Very steep berms may need to be sloped or terraced to prevent erosion.

6. Reclamation procedures and waste disposal: The lead from outdoor firing ranges should be reclaimed on a periodic basis. Current best management practices recommended by EPA suggest that backstop reclamation should be performed when it contains at least 20 pounds of lead per square foot, a maximum of 100,000 rounds per lane have been fired, or every one to five years. The Safety Office will contract with reclamation and recycling companies to furnish these services when needed.

VIII. Recordkeeping

- A. The annual safety inspection will be maintained and available for review purposes by all entities named in the distribution section of the form.
- B. A list of all approved firing ranges will be maintained by the Safety Office and distributed to all affected divisions at least annually.
- C. Department owned firing ranges must be inspected monthly by the superintendent or his/her designee. This inspection is to ensure that the range is maintained in a safe and secure manner. Retain monthly inspections at the facility for two years. Retain the shooting log at the facility for five years.
- D. The Safety Office will maintain the following records for the life of the range plus 10 years after its closure: annual safety inspections, required maintenance or corrective actions performed by staff, and any contracted services.
- E. Department owned firing ranges shall maintain a copy of MOA/U(s) with external agencies which allows utilization of DOP ranges to the mutual benefit of all parties. MOA/U(s) entered into agreement with external agencies on behalf of DPS shall also be maintained. Records will be maintained for the life of the range plus three years after its closure.
- F. Range usage reports shall be returned by non-DPS agencies utilizing DOP owned firing ranges. These reports shall be reviewed by the facility superintendent or his/her designee. A copy of the range usage report will be forwarded to the regional Safety, Occupational and Environmental Health consultant on the last duty day of the month. Originals will be maintained by the facility for the life of the range plus three years after its closure.

North Carolina Department of Public Safety Safety, Occupational and Environmental Health Office List of Approved Firing Ranges Updated July 1, 2011

This list of approved firing ranges is in accordance with Safety Policy B-2: Firing Ranges. It is based on site inspections conducted by Safety, Occupational and Environmental Health Office Region Safety Consultants. This list will be updated annually and distributed to the Division of Prisons, Division of Community Correction, and Office of Staff Development and Training.

ON-SITE RANGES (HANDGUN, RIFLE, AND SHOTGUN)

Brown Creek CI Polkton, NC Caledonia CI Tillery, NC Dan River PWF Yanceyville, NC Lexington, NC Davidson CC Maury, NC Eastern CI Franklin CC Bunn, NC Lillington, NC Harnett CI Johnston CI Smithfield, NC McCain, NC McCain CH (Hoke) Morrison CI Hoffman, NC Odom CI Jackson, NC Pender CI Burgaw, NC Piedmont CI Salisbury, NC

OFF-SITE RANGES (HANDGUN, RIFLE, AND SHOTGUN)

Ahoskie Police Department Ahoskie, NC
Beaufort County Community College Washington, NC

(Turning Target System Approved)

Bladen County Law Enforcement

Burke County Sheriff's Department

Crossnore Training Academy

Dare County Gun Club/Stumpy Point

Duplin County Law Enforcement

Elizabeth City Police Department

Elizabeth City, NC

Montgomery Community College Troy, NC
McDowell County Sheriff's Department Marion, NC
NC Justice Academy Range 1 Salemburg, NC

(Approved for handgun/shotgun only)

Pitt Community College Greenville, NC
Randolph Community College Range 2 Asheboro, NC
Randolph Community College Range 3 Asheboro, NC

(Approved for rifle/shotgun only)

Robeson Community College Lumberton, NC
Rocky Mount Police Department Rocky Mount, NC
Southeastern Community College Whiteville, NC
Wilson Police Department Wilson, NC

Policy Title: Firing Ranges

OFF-SITE RANGES (HANDGUN ONLY)

Policy: B-2

Cary Police Department Cary, NC

Note: Restricted to In-Service or specialty training.

No basic trainees allowed.

Eden Police Department Eden, NC

Mount Airy Police Department Mount Airy, NC

(Turning Target System Approved)

DPS SPECIALIZED TEAMS (PERT/SORT)

Umstead National Guard Butner, NC

TRIAL TEST FIRING RANGES

A.B. Tech – Biltmore Asheville, NC

Note: Approved for handgun only

Charlotte Police Department Range 1 Charlotte, NC

Note: Approved for handgun only

Gaston Police Department Gaston, NC

Note: Approved for handgun only

North Carolina Justice Academy Range 3 Salemburg, NC

Note: Concrete firing lanes

Randolph Community College Range 1 Asheboro, NC

Note: Concrete firing points and walkway

Policy Title: Firing Ranges

NORTH CAROLINA DEPARTMENT OF PUBLIC SAFETY SAFETY, OCCUPATIONAL AND ENVIRONMENTAL HEALTH ANNUAL FIRING RANGE AUDIT

Policy: B-2

Facility	Contact
Safety Consultant	Date

DDC Dange	Veer Appual Total	T	Daga Nat	
DPS Range Shooting Log	Year Annual Total	Meets	Does Not Meet	
Shooting Log		Standard	Standard	Comments
		Otaridard	Gtarraara	Comments
No	No waivers shall be granted. Violation must			
Exemption:	be abated before range use is approved.			
1	Backstop and spurs made of dirt and free of			
	debris that may cause ricochet.			
	Ground cover free of debris that could cause			
2	ricochet.			
	Safety Office notified of any renovations.			
	Must have prior approval for DPS owned			
3	ranges.			
	Inmates are not allowed on the range at any			
4	time for any reason. Minimum ratio of one certified firearms			
	instructor per six students plus one range			
	master on site during the training for			
5	employees.			
6	Range has a written medical emergency plan.			
	Approved hearing protectors and approved			
	eyewear, glasses or goggles, are worn during			
7	firing.			
	When in use, the range is equipped with			
_	hearing and eye protection for each			
8	participant and instructor.			
	Probe backstop at 2-ft intervals behind targets			
9	and randomly elsewhere for ricochet hazards.			
10	Personal weapons are not allowed on the firing range.			
11	Cell phones are not allowed on the firing line.			
- ''	When range is in use, water provided for			
12	consumption and sanitary purposes available.			
	Restroom facilities available on or in close			
13	proximity to range.			
Mandatory:	May be waived by the Safety, Occupational &			
	Environmental Health Director only.			
	There is a minimum of 6 ft. space per lane.			
1	Maximum 24 firing lanes.			

		Meets Standard	Does Not Meet Standard	Comments
2	Target holder is nylon rope minimum 1/2 inch in diameter; (steel) cable for target holder acceptable for non-DPS owned ranges.	Staridard	Gtaridard	
3	Firing points (3, 5, 7, 10, 15, 25, 35, 40, and 50-yard lines) marked appropriately.			
4	For DPS owned ranges, control gate kept locked except when the range is in use.			
5	Stocked first-aid kit on site when range is in use.			
6	Approved fire extinguisher on site when range is in use.			
7	Vehicle on site when range is in use. Means of communication (telephone, two-way radio, walkie-talkie, cell phone) on site when range is in use.			
8	Recreational firing is prohibited on all DPS ranges.			
9	Trainees clothing consistent with division policy.			
10	Instructor follows range opening and closing procedures.			
11	Instructor inspects and approves condition of weapons to be used during training.			
12	For DPS range, superintendent or his/her designee approves all uses of range and maintains a schedule for range use. Monthly inspection records.			
13	For off-site range, responsible division staff member has written permission to use range from the agency controlling the range. Annual Memorandum of Agreement on file with the DOP/DCC regional training manager and DCC division training coordinator.			
14	For off-site ranges, the DOP/DCC regional training manager and DCC division training coordinator or designee will ensure a monthly inspection has been accomplished for each assigned range if used during the monthly period. Records will be maintained in each respective office for two years.			
Facential				
Essential:	May be waived by the safety consultant for a period not to exceed 45 days to allow time to develop and submit a written abatement plan.			
1	Minimum height of backstop is 20 feet with ≥ 45 degree impact angle.			

		Meets Standard	Does Not Meet Standard	Comments
2	Spurs at least 8 feet high, and 15 feet in length and sloped at least 45 degrees. If a course of fire may require the side berm to act			
3	as a back stop, it must be 20 feet high. Backstop armoring ≤ 150 pieces per sq. ft. Count:			
4	Removable barricades available at the 25 and removable or fixed barricades at the 50 yard line.			
5	Red flag is flown on flag pole when range is in use. During low, limited light firing, red light (battery operated) is displayed. Ideally should be located at gate to provide early warning.			
6	Perimeter warning signs, approximately 12 inches by 18 inches displaying red letters on white background with legend "Danger - Firing Range" are posted. DPS owned ranges, posted around perimeter at 100 ft intervals.			
7	Range is equipped with adequate tables and seating.			
8	Backstop and spurs seeded with grass or some type of erosion prevention. Grass ≥ 4" high.			
9	When in use, range is provided with an adequate public address system.			
10	When in use, range has a storage facility for supplies.			
11	A set of range rules are posted. Instructor will review DPS safety rules.			
Cofety Dules				
Safety Rules: 1	Use of a DPS range must be approved by the superintendent or his/her designees.			
2	Safety first, always.			
3	No alcoholic beverages or drugs, or persons(s) under the influence of alcoholic beverages or drugs will be allowed on the range.			
4	There will be no loaded weapons allowed except when on the firing line.			
5	Load only on command of range officers.			
6	Follow all instructions of range officers.			
7	Keep all weapons pointed in a safe direction at all times.			

		Meets Standard	Does Not Meet Standard	Comments
8	No one will be allowed down-range unless the range officer signals that the firing line is clear.			
9	Shoot only at target in designated firing lane. Shooting at other objects (target holders, clips, other targets, etc.) will not be tolerated.			
10	There will be no shooting over the backstop.			
11	Remove all used targets and backers when finished shooting. Return cardboard and other supplies to designated areas.			
12	When training is complete, clean up area before leaving the range. This includes spent cartridge casings.			
13	No horseplay of any kind will be tolerated.			
14	Violation of any of the above rules will be cause for expulsion from the firing range.			
Soil Test Optional	pH 6.5 – 8.5 Phosphate <u>>134</u> Results: pH P – I Level			
Additional Comments:				
	APPROVED / DISAPPROVED (circle one)			
Distribution	DPS Safety Director			
Distribution.	DPS Regional Safety Office			
	DOP Executive Officer			
	DOP Region Director			
	DOP Assistant Director for Management Services			
	OSDT Director			
	DCC Training Coordinator			
	DPS Assistant Director for Facility Services			

NORTH CAROLINA DEPARTMENT OF PUBLIC SAFETY SAFETY, OCCUPATIONAL AND ENVIRONMENTAL HEALTH MONTHLY FIRING RANGE AUDIT

Facility	Contact
-	
DPS Inspector	_ Date

Policy: B-2

		Meets Standard	Does Not Meet Standard	Comments
<u>No</u>	No waivers shall be granted. Violation must			
Exemption:	be abated before range use is approved.			
1	Backstop and spurs made of dirt and free of			
	debris that may cause ricochet.			
2	Ground cover free of debris that could cause ricochet.			
	Safety Office notified of any renovations.			
	Must have prior approval for DPS owned			
3	ranges.			
	Inmates are not allowed on the range at any			
4	time for any reason.			
	Minimum ratio of one certified firearms			
	instructor per six students plus one range			
_	master on site during the training for			
5	employees.			
6	Range has a written medical emergency plan.			
	Approved hearing protectors and approved			
_	eyewear, glasses, or goggles are worn during			
7	firing.			
	When in use, the range is equipped with			
	hearing and eye protection for each			
8	participant and instructor.			
	Probe backstop at 2-ft intervals behind targets			
9	and randomly elsewhere for ricochet hazards.			
10	Personal weapons are not allowed on the firing range.			
11	Cell phones are not allowed on the firing line.			
- ''	When range is in use, water provided for			
12	consumption and sanitary purposes available.			
12	Restroom facilities available on or in close			
13	proximity to range.			
.0				
Mandatory:	May be waived by the Safety, Occupational &			
manaatory.	Environmental Health Director only.			
	There is a minimum of 6 ft. space per lane.			
1	Maximum 24 firing lanes.			
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		Meets Standard	Does Not Meet Standard	Comments
2	Target holder is nylon rope minimum 1/2 inch in diameter; (steel) cable for target holder acceptable for non-DPS owned ranges.		- Cianaan a	
3	Firing points (3, 5, 7, 10, 15, 25, 35, 40, and 50-yard lines) marked appropriately.			
4	For DPS owned ranges, control gate kept locked except when the range is in use.			
5	Stocked first-aid kit on site when range is in use.			
6	Approved fire extinguisher on site when range is in use.			
7	Vehicle on site when range is in use. Means of communication (telephone, two-way radio, walkie-talkie, cell phone) on site when range is in use.			
8	Recreational firing is prohibited on all DPS ranges.			
9	Trainees clothing consistent with division policy.			
10	Instructor follows range opening and closing procedures.			
11	Instructor inspects and approves condition of weapons to be used during training.			
12	For DPS range, superintendent or his/her designee approves all uses of range and maintains a schedule for range use. Monthly inspection records.			
13	For off-site range, responsible division staff member has written permission to use range from the agency controlling the range. Annual Memorandum of Agreement on file with the DOP/DCC regional training manager and DCC division training coordinator.			
14	For off-site ranges, the DOP/DCC regional training manager and DCC division training coordinator or designee will ensure a monthly inspection has been accomplished for each assigned range if used during the monthly period. Records will be maintained in each respective office for two years.			
	May be waived by the safety consultant for a			
Essential:	period not to exceed 45 days to allow time to develop and submit a written abatement plan.			
1	Minimum height of backstop is 20 feet with <u>></u> 45 degree impact angle.			

		Meets Standard	Does Not Meet Standard	Comments
2	Spurs at least 8 feet high, and 15 feet in	Otaliaa a	Otaliaa a	
	length and sloped at least 45 degrees. If a			
	course of fire may require the side berm to act			
	as a back stop, it must be 20 feet high.			
3	Backstop armoring ≤ 150 pieces per sq. ft.			
	Count:			
4	Removable barricades available at the 25 and			
	removable or fixed barricades at the 50 yard			
	line.			
5	Red flag is flown on flag pole when range is in			
	use. During low, limited light firing, red light			
	(battery operated) is displayed. Ideally			
	should be located at gate to provide early			
	warning.			
6	Perimeter warning signs, approximately 12			
	inches by 18 inches displaying red letters on			
	white background with legend "Danger - Firing			
	Range" are posted. DPS owned ranges,			
7	posted around perimeter at 100 ft intervals. Range is equipped with adequate tables and			
,	seating.			
8	Backstop and spurs seeded with grass or			
	some type of erosion prevention. Grass ≥ 4 "			
	high.			
9	When in use, range is provided with an			
	adequate public address system.			
10	When in use, range has a storage facility for			
	supplies.			
11	A set of range rules are posted. Instructor will			
	review DPS safety rules.			
Safety Rules:				
1	Use of a DPS range must be approved by the			
	superintendent or his/her designees.			
3	Safety first, always.			
3	No alcoholic beverages or drugs, or			
	persons(s) under the influence of alcoholic			
	beverages or drugs will be allowed on the			
	range.			
4	There will be no loaded weapons allowed			
	except when on the firing line.			
5	Load only on command of range officers.			
6	Follow all instructions of range officers.			
7	Keep all weapons pointed in a safe direction			
	at all times.			

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		Meets Standard	Does Not Meet Standard	Comments
8	No one will be allowed down-range unless the range officer signals that the firing line is clear.			
9	Shoot only at target in designated firing lane. Shooting at other objects (target holders, clips, other targets, etc.) will not be tolerated.			
10	There will be no shooting over the backstop.			
11	Remove all used targets and backers when finished shooting. Return cardboard and other supplies to designated areas.			
12	When training is complete, clean up area before leaving the range. This includes spent cartridge casings.			
13	No horse playing of any kind will be tolerated.			
14	Violation of any of the above rules will be cause for expulsion from the firing range.			
Additional Comments:				
Reviewed &	Superintendent:			
Signed by:	Date:			
Records Retention:	Maintain at facility for two years.			



Policy: B-2

North Carolina Department of Public Safety

Division of Prisons

831 West Morgan Street 4260 MSC Raleigh, NC 27699-4260 Telephone: (919) 838-4000 Fax: (919) 733-8272

Beverly Eaves Perdue, Governor Robert C. Lewis, Director of Prisons Ruben F. Young, Secretary

MEMORANDUM OF AGREEMENT AND UNDERSTANDING FOR DPS OWNED FIRING RANGES USED BY AGENCIES OTHER THAN DPS

This document represents an agreement between the North Carolina Department of Public Safety (hereinafter referred to as DPS) and outside law enforcement agencies (non-DPS) which allows agencies to utilize this DPS-owned firing range to the mutual benefit of all parties. Special conditions and/or restrictions beyond those listed herein should be detailed on an attached memorandum and will become part of this agreement.

DPS Facility Controlling Firing Range:	
DPS Facility Representative:	
DPS Facility Contact Person (If Different from Representative):	
Outside Agency Name:	
Outside Agency Representative:	
Outside Agency Contact Person (If Different from Representative):	

Policy: B-2 Policy Title: Firing Ranges

The range is located on property belonging to DPS. Outside agencies using this range shall NOT hold DPS liable for any and all claims or causes of action which may arise as a result of such utilization.

All agencies using this range agree to the following:

- I. All agencies will be responsible for ensuring each employee exhibits professional conduct so as to not bring discredit to their department or that of the DPS while utilizing our range or during stops at local community business establishments.
- II. Each use of the range by outside agency staff shall be scheduled and approved in advance by the DPS contact person listed above. In the absence of the contact person, the facility administrator will approve the request for use.
- III. All agencies using the range will check out the range gate key, red flag, and a range usage report from the contact person. The flag will be raised during range operations. The range usage report shall be returned to the facility contact person.
- IV. Agencies will provide their own supplies (targets, cardboard backers-nominal height 48", target clips, ammunition, first aid kits, fire extinguisher, drinking and hand-washing water [if not available], personal protective equipment, and emergency communications equipment, etc.)
- V. Agencies will provide their own certified firearms instructors and range safety officers per applicable BLET protocol and/or other specific training standards they are subject to.
- VI. Agencies will observe all posted signs and follow all range safety rules posted in front of the range building.
- VII. Agencies will thoroughly inspect the range after each use, removing all weapons, equipment, ammunition, spent cartridges, targets, target backers, shotgun shell wads and other materials and supplies, and all trash generated during the training. Plastic liners and cans for trash will be provided by the responsible prison facility. It is imperative that no trash be left overnight due to animals foraging for food.
- VIII. No open fires are permitted on the range.
- IX. The 25-yard line post will be removed when firing from the 50 yard line. These posts are to be placed back into position upon completion of training.
- X. Shotgun ammunition up to 1 oz. 12 gauge slugs may be used providing no significant damage to the range posts, berm, target backer supporting system (1/2 inch nylon rope) etc., occurs.
- XI. Handguns that do not exceed .357 Magnum firepower will be permitted, including .38 caliber, 9MM, .40 caliber, and .45 caliber.
- XII. No rifle exceeding .223 firepower will be permitted without special permission from the DPS Safety, Occupational and Environmental Health Office.

Policy: B-2 Policy Title: Firing Ranges

XIII. Firing in low and limited-light firing conditions will require that a battery-operated red light be affixed to the range flagpole and used for the duration of range activity.

- XIV. All outside agencies will be provided with a copy of this facility's Range Emergency Plan.
- XV. Agencies will be allowed to use commercially made metal targets designed for the caliber weapon being used.
- XVI. Agencies will report any physical deficiencies or problems with the range to the facility promptly.
- XVII. Personnel are not permitted to climb on backstop or side berms.
- XVIII. Agencies will provide the facility range master or safety officer with a written copy for courses of fire to be conducted.

This Memorandum of Agreement and Understanding should be reviewed whenever necessary but no less than annually.

Signature Title / Date Signature Title / Date

Policy: B-2 Policy Title: Firing Ranges

NORTH CAROLINA DEPARTMENT OF PUBLIC SAFETY SAFETY, OCCUPATIONAL, AND ENVIRONMENTAL HEALTH DOP FIRING RANGE USAGE REPORT

Date Range Facility
Agency Name Contact Info
Lead Instructor Contact Phone Number
Name of additional instructors
Student count
Course of fire (check all that apply)
☐ BLET ☐ In-service ☐ Instructor School ☐ Tactical ☐ Other
Weapon(s)/caliber fired Rifle Handgun Other (specify)
Ricochets Yes No (if yes, summarize ricochet using back or additional sheet for further clarification
Incidents Yes No (if yes, summarize accident using back or additional sheet for further clarification)
Reported injury Yes No (if yes, summarize accident using back or additional sheet for further clarification and attach a copy of the accident report) 911 Activated Yes No
Nature of Injury
Cause of Injury Struck by ricochet Temperature extremes Tripping hazard Other
Signature/Date
Fax to your Regional Safety Consultant:
Robyn Hansen Western Region fax (828) 251-6345 Chip Coon Piedmont Region fax (336) 636-5708 Pat Jacobi Central Region fax (919) 716-3967 John O'Sullivan South Central Region fax (910) 944-7034 John Hodge Eastern Region fax (252) 439-1814