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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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Technical specifications for making test fired samples

枪弹痕迹样本制作技术规范

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

Please note that some elements of this document may involve patents. The issuer of this document is not responsible for identifying these patents.

This standard was proposed and managed by the National Criminal Technology Standardization Technical Committee Trace Inspection Sub-Technical Committee (SAC/TC17 9/SC 9).

This standard was drafted. Chongqing Municipal Public Security Bureau Criminal Investigation Corps, Material Evidence Identification Center of the Ministry of Public Security.

1 Scope

This standard specifies the equipment, procedures, storage and safety protection requirements for making bullet trace samples.

This standard applies to the production of bullet trace samples.

2 Terms and definitions

The following terms and definitions apply to this document.

Test fired sample

Projectiles and shells fired by various types of firearms at experimental sites for scientific testing in court

3 Major equipment and venues

3.1

Carrier, dangerous firearm shooting rack.

3.2

Bullet Trace Lab.

4 Operation steps

4.1

Exit the magazine or open the magazine.

4.2

Pull the gun towards the safe direction of the muzzle, and confirm that there are no bullets in the barrel and no firing failure.

4.3

Confirm that the firing of the firearm is normal.

4.4

Confirm that the remaining components of the firearm are operating normally and that the movements are coordinated and coherent.

4.5

Number the firearms used in the experiment one by one.

4.6

Determine the number of samples for each gun and reload as needed.

4.7

Shoot the muzzle towards the ammunition.

4.8

Check the firearms immediately after shooting to ensure that there are no remnants in the gun.

4.9

Collect samples of firing warheads and cartridge cases.

4.10

The surface of the collected bullet and cartridge samples should be cleaned with absolute ethanol and soft cloth to remove stains and water stains.

5 Storage of samples

5.1

Rigid boxes should be used to store the samples relatively firmly to ensure that the samples are not squeezed and reduce friction between each other.

5.2

The relevant information of the samples should be marked on the surface of the rigid packaging box to distinguish the shooting samples made by different cases and different firearms.

5.3

Samples should be stored in accordance with the principles of convenient management and use, and the storage room for samples should be kept clean and dry.

6 Firearms troubleshooting

6.1

Failure of official guns can be repaired or replaced before making samples. After making a sample, the components of the firearm must not be replaced.

6.2

For the evidence-related firearms that require the same identification, if there is a failure, the firearm should be carried out without changing the shape of the firearm.

Repairs were made to make the firearms normally fired to make samples of bullet marks.

7 Matters needing attention

7.1

Under the premise of ensuring safety, sample production can be performed outdoors.

7.2

In the case where the reliability of the firearm performance of the sample is not high, the technician should use protective devices to ensure the safe production of the sample.

7.3

When cleaning the gun's protective oil and rust, you need to use a soft cloth and wrap the purlin with a soft cloth. Do not use hard objects to damage the inner wall of the barrel and its barrel.

It forms traces on the component surface.

7.4

Before making samples of the material evidence firearms involved in the case, the trace physical evidence, trace physical evidence, Biological evidence.

7.5

Except in special cases, in principle, the production of sample traces of bullets shall not be made with the evidence bullets involved in the case. If it is necessary to use the material evidence involved in the case of making bullets, the bullets of the material evidence involved in the case shall be processed in accordance with the requirements of 7.4.

7.6

When preparing samples, it is preferred to make samples of ammunition of the same material, brand, and batch as the comparison material.