TEST SPECIMENS AND MATERIALS REQUESTED BY MR. WILLIAM S. LYON. BUILDING 4500, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSER .

## MATERIALS

- Gulfwax Type of paraffin used in all the submitted paraffin casts.
- 2. Cheesecloth Representative of the cheesecloth included in all the paraffin casts.
- 3. Eample of Distilled Vater Used to wash paraffin casts that had been treated with diphenylbenzidine.
  - Sample of Diphenylbenzidine Used on paraffin casts of Test No. 5 and Test No. 6.

## PANAFFIN CASTS

- Cast from left hand after it had been thoroughly washed with soap and rinsed with distilled water (Test No. 1).
- Cast of right hand after firing .38 Special Smith and Wesson revolver four times. Prior to making this cast, the hand was cleaned, the gun was also wiped clean with cheesecloth and then the gun was fired with the right hand (Test No. 2). A TO THE RESERVE OF THE PROPERTY OF THE PROPER
- Cast of right hand after firing revolver four times and then reloading (Test No. 3).

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- Cast of left hand after firing revolver four times with the right hand reloading (Test No. 4).
- Cast of right hand after firing revolver four times and reloading. This paraffin cast was then treated with diphenylbenzidine which was washed off with distilled water (Test No. 5).
  - Cast of left hand after firing revolver four times with the right hand and reloading. This cast was treated with diphenylbenzidine and then washed with distilled water Colley A (Test No. 6).

- .7. Cast of left cheek before firing revolver (Test No. 7)
- B. Cast of right cheek after the rifle was fired from the right shoulder (rifle was wiped clean with cheesecloth prior to shooting) (Test No. 8).
- 9. Cast of right hand after firing rifle (Test No. 9).
- 10. Cast of left hand after firing rifle (Test No. 10).

## CARTRIDGE CASES

- Four cases used in conjunction with paraffin cast No. 2
  - 2. Four cases used in conjunction with paraffin casts No. 3 and No. 4.
  - 3. Four cases used in conjunction with paraffin casts No. 5 and No. 6.
  - 4. One case used in conjunction with paraffin casts No. 8, No. 9 and No. 10.