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RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 883501
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JANUARY 13,1989

TRIAL AND PILOT
MODEL 700 POLICE SNIPER RIFLE
223 CALIBER  FUNCTION AND ACCURACY VERIFICATION

### TRIAL AND PILOT
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·ABSTRACT:

Research finds the Trial and Pilot Evaluation of the 223 caliber, Model 700 Police Sniper Rifles to be acceptable. The Trial and Pilot Evaluation consisted of Field Function and Accuracy. Six rifles were used for the evaluation.

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Date Prepared: JANUARY 13,1989

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TRIAL AND PILOT
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TO:    J.R. Snedeker
FROM:  D.R. Thomas


**INTRODUCTION:**

On December 15, 1988 the Test Lab received a request to perform a
Trial and Pilot Evaluation on the Model 700 Police Sniper Rifle.
The evaluation used six rifles. The evaluation consisted of Field
Function and Accuracy testing.


**SCOPE OF THE TEST:**

To determine if the production run samples would meet Remington
Specifications set by the Research Design Section.


**TEST RESULTS:**

The production sample of the 223 caliber, Model 700 Police Sniper
Rifles, was found to be acceptable.  The results of the testing were as
follows:


**ACCURACY:**

The average group size was 1.094 inches.


**FUNCTION:**

There were no malfunctions on any of the six rifles tested.

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**REPORT TEXT:**

**GENERAL:**

The following six rifles were used throughout the accuracy and function test.

B6853171    B6853262    B6853179    B6853052    B6853592    B6853351

**ACCURACY:**

The results showed that the 223 caliber, Model 700 Police Sniper Rifles tested met the Remington specification (1.5 inches) for group size.

All six of the rifles were used for the 100 yard accuracy testing and the following results were obtained:

### 100 YARD ACCURACY RESULTS

| SERIAL NUMBER | GROUP 1 (in.) | GROUP 2 (in.) | GROUP 3 (in.) | AVERAGE (in.) |
|---|---|---|---|---|
| B6853171 | .98 | 1.13 | .78 | .96 |
| B6853262 | 1.39 | .89 | 1.22 | 1.16 |
| B6853179 | .97 | 1.71 | 1.26 | 1.31 |
| B6853052 | .78 | 1.46 | .98 | 1.07 |
| B6853351 | .88 | .98 | 1.38 | 1.08 |
| B6853592 | 1.12 | .90 | .92 | .98 |

**FUNCTION:**

All six rifles were fired 60 rounds each in a function test conducted at the Ilion Fish and Game Club.

No malfunctions occurred.

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**TEST PROCEDURE:**


<u>ACCURACY</u>:

Three, five shot groups were shot with each of the six rifles selected for 100 yard accuracy.  The accuracy was shot by J.E. Selan in the Research and Development 100 yard range located in building 52-1A.

Remington ammunition code R223R2 (lot# TO51D0358) 55 grain "Power Lokt" hollow point was used for the accuracy testing.

Standard short action Leupold bases and rings were used in conjunction with a 20X Lyman scope.

The targets were analyzed for group size using the HP 9000 computer and digitizing tablet.


<u>FUNCTION</u>:

All six of the rifles were subjected to the loading and firing of 10 rounds each of six different ammunition types.

```
Remington R223R1   (lot# U04H D2016)  55 grain Pointed Soft Point
Remington R223R3   (lot# A 06I D1136) 55 grain Metal Case
Federal No. 223A   (lot# 3A-2322)     55 grain Soft Point
Federal No. 223B   (lot# 3A-2312)     55 grain Metal Case Boat Tail
Winchester X223R   (lot# 52TK31)      55 grain Pointed Soft Point
Winchester X223R1  (lot# 38SM90)      65 grain Full Metal Case
```

C.S. Stephens and A. Cooper conducted the Field Function phase of the test.

The Field Function Test was conducted at the Ilion Fish and Game Club.

Shooters were alternated every five rounds throughout the field function testing.

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