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INTER-DEPARTMENTAL CORRESPONDENCE

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RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 882011
JULY 22, 1988

MODEL 700 MOUNTAIN RIFLE
243 CALIBER FUNCTION AND ACCURACY VERIFICATION

Report# 882011

2

Work Order# 480257

MODEL 700 MOUNTAIN RIFLE
243 CALIBER FUNCTION AND ACCURACY VERIFICATION

ABSTRACT:

The Trial and Pilot Evaluation of the Model 700 Mountain Rifle, in the short caliber action, was completed and accepted using the 7MM-08 caliber rifles as the test vehicle. The introduction of the short caliber action also includes the 308 and 243 calibers. As these calibers become available the function and accuracy will be verified by the Research Test and Measurement Laboratory.

The 243 caliber Model 700 Mountain Rifles tested met Remington specifications (2.2 inches) for group size. The five rifles tested shot an average group size of 1.62 inches. There were no malfunctions during the function test.

Prepared by: F.L. Supry
Date: July 22, 1988

Report# 882011

3

Work Order# 480257

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TO: H.C. Munson
FROM: F.L. Supry

INTRODUCTION:

In July, 1988, a second request to conduct a Function and Accuracy evaluation of the 243 caliber, Model 700 Mountain Rifles was received by the Test Lab. The first request was received in May, 1988, and that sample was rejected (refer to Report# 881313) because three of the five samples did not meet Remington 100 yard accuracy specifications for 243 caliber rifles.

Each evaluation used five rifles selected from a production rifle sample in the Ilion warehouse.

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 243 caliber, Model 700 Mountain Rifles, was found to be acceptable. The results of the testing were as follows:

ACCURACY:

The average group size was 1.62 inches.

FUNCTION:

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

Report# 882011

4

Work Order# 480257

MODEL 700 MOUNTAIN RIFLE
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REPORT TEXT:

GENERAL:

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

C6228993 C6237357 C6237437 C6237431 C6237395

ACCURACY:

The results showed that the 243 caliber, Model 700 Mountain Rifles tested met the Remington specification (2.2 inches) for group size.

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

100 YARD ACCURACY RESULTS

<u>SERIAL NUMBER</u>	<u>GROUP 1</u> (in.)	<u>GROUP 2</u> (in.)	<u>GROUP 3</u> (in.)	<u>AVERAGE</u> (in.)
C6228993	1.21	1.73	1.74	1.56
C6237357	1.87	1.75	2.07	1.90
C6237437	1.97	2.53	1.92	2.14
C6237431	1.32	0.95	1.47	1.25
C6237395	1.02	1.13	1.58	1.24

FUNCTION:

All five rifles were fired 20 rounds each in a function test conducted in the R&D 200 yard range.

No malfunctions occurred.

Report# 882011

5

Work Order# 480257

MODEL 700 MOUNTAIN RIFLE
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TEST PROCEDURE:

ACCURACY:

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

Remington ammunition code (A18C D3405) R243W3 (100 grain PSP) 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.

FUNCTION:

All five of the rifles were subjected to the loading and firing of 20 rounds 100 grain pointed soft point Remington 243 caliber ammunition in a function test conducted at the R&D 200 yard range.