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INTER-DEPARTMENTAL CORRESPONDENCE

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**RESEARCH TEST AND MEASUREMENT REPORT**

**REPORT# 881313  
JULY 22, 1988**

**MODEL 700 MOUNTAIN RIFLE  
243 CALIBER FUNCTION AND ACCURACY VERIFICATION**

**REJECTED SAMPLE**

Report# 881313

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Work Order# 480257

MODEL 700 MOUNTAIN RIFLE  
243 CALIBER FUNCTION AND ACCURACY VERIFICATION

**ABSTRACT:**

The testing on the production sample of the 243 caliber Model 700 Mountain Rifle was stopped and the five rifles returned to production.

The 243 caliber Model 700 Mountain Rifles tested did not meet Remington specifications (2.2 inches) for group size. The five rifles tested shot an average group size of 2.36 inches, with three of the five rifles shooting erratic groups.

Another function and accuracy test will be conducted with a production sample when the sample becomes available.

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

MODEL 700 MOUNTAIN RIFLE  
243 CALIBER FUNCTION AND ACCURACY VERIFICATION

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

**INTRODUCTION:**

In May, 1988, a 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 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 unacceptable. The results of the testing were as follows:

**ACCURACY:**

The average group size was 2.36 inches.

**FUNCTION:**

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

MODEL 700 MOUNTAIN RIFLE  
243 CALIBER FUNCTION AND ACCURACY VERIFICATION

REPORT TEXT:

GENERAL:

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

C6237399      C6237389      C6237386      C6237435      C6233183

ACCURACY:

The results showed that this sample of the 243 caliber, Model 700 Mountain Rifles tested did not meet 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.)
C6237435	1.67	1.86	2.31	1.95
C6237399	2.58	2.03	3.03	2.55
C6237389	2.54	2.48	3.62	2.88
C6233183	1.66	1.85	1.95	1.82
C6237386	2.40	2.90	2.44	2.58

FUNCTION:

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

No malfunctions occurred.

MODEL 700 MOUNTAIN RIFLE  
243 CALIBER FUNCTION AND ACCURACY VERIFICATION

**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 C.J. Stephens 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.