

xc: J. P. Linde  
Lab file

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REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

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"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" \_\_\_\_\_

Ilion, New York  
June 2, 1975

TO: W. E. LEEK  
FROM: A. A. HUGICK  
DATE: May 28, 1975  
SUBJECT: M/600 SAFETY EVALUATION - REPORT #4  
WORK ORDER: G 0457  
TEST PERIOD: May 15, 1975 thru May 27, 1975

INTRODUCTION:

Two (2) M/600 rifles with safety cams blanked to the new dimension for greater sear lift at the trigger with safe on were delivered to the Lab area for testing and evaluation. Test activity of these rifles was confined to wear function of the safety and fire control. This is part of the design initiated review of the bolt action rifle safety function.

TEST OBJECTIVE:

Dry cycle test the M/600 rifle safety sample with safety cams blanked to the new dimension.

TEST RESULTS & OBSERVATIONS:

1. M/600 - 6854172 - Test Gun #23

- |               |   |
|---------------|---|
| Test Activity | - Bolt lock section of safe removed (All 600) for comparator measuring of lift. |
|               | - 50,000 Safe On - Safe Off cycles.   |
|               | - 10,000 Cock and dry fire cycles.  |
|               | - WD 40 lubrication.  |
| Test Results  | - Loss of sear lift was .0002 inch.   |
|               | - Variation of sear lift was .0085 high to .0076 low.                           |
|               | - Safe Off force was erratic during this dry cycle testing.                     |
|               | - Safe On force was fairly uniform around 6.0 lbs.                              |
|               | - Fire control / Safety parts show little or no wear.                           |

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From: A. A. Hugick

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TEST RESULTS & OBSERVATION: (Cont'd)

2. M/600 - S. N. 6861076 - Test Gun #24

- Test Activity - 50,000 Safe On - Safe Off cycles.  
- 10,000 Cock and dry fire cycles.  
- With WD 40 lubrication.
- Test Results - Sear lift as received was .010 and .0089 inch  
at end of test.  
- Trigger pull remained uniform around 3.50 lbs.  
- Safe On force ranged from 8 lbs. Max. to 4.0 lbs. Min.  
- Safe Off force ranged from 9.0 Max. to 4.0 lbs. Min.  
- Chrome plate of sear at safety cam contact point  
chipped off during testing.  
- Trigger housing has minor failure at detent due to  
Safe on/Safe Off cycling.

A. A. Hugick  
May 29, 1975.

AAH:bd  
Measurement/Test Lab  
Illion Research Division

TEST PROCEDURE

1. 2 x M/600 RIFLES WITH SAFETY CAMS BLANKED TO NEW LIFT DIMENSION.
  - A. Measure trigger pull, Safe On force, Safe Off Force, Safe on sear lift at trigger.
  - B. Check Function of Safety
  - C. Clean and lubricate fire control (WD40)
  - D. Cycle Safe On - Safe Off 10,000 cycles
  - E. Measure item A listed function
  - F. Repeat B.
  - G. Repeat C.
  - H. Repeat D in 10,000 cycle intervals up to a total of 50,000 Safe On - Safe Off cycles.
  - I. Repeat A.
  - J. Repeat B.
  - K. Repeat C.
  - L. Cock and dry fire cycle gun 10,000 cycles.
  - M. Repeat A.
  - N. Repeat B.
  - O. Repeat C.
  - P. Inspect rifles and fire controls.
  - Q. Write summary report

AAH:bd  
Measurement/Test Lab  
Illion Research Division