

REMINGTON	ARMS	COMPANY,	MC.	
INTER-DEPARTMENTAL CORRESPONDENCE				

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"CONFINE YOUR LETTER TO ONE SUBJECT ONLY"_

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DETERS

(FD)

	Ilion, Nev	v York
	June 30,	1975
W. E. LEEK		
A. A. HUGICK		
June 27, 1975		
M/600 SAFETY EVALUATION -	REPORT #6	
	A. A. HUGICK June 27, 1975	W. E. LEEK A. A. HUGICK

INTRODUCTION:

Four (4) experimental M/600 rifles were delivered to the lab for safety evaluation dry cycle testing as part of the bolt action rifle safety review. The fire controls aduse the M/700 trigger housing with a hardened right panel, and swaged safety cam of two styles. Test guns #34 and #35 have normal sear lift and an interrupted swaged safety cam. Test guns #36 and #37 have increased sear lift and a continuous swaged safety cam.

TEST OBJECTIVE:

1.

Dry cycle test the four (4) experimental rifle safety assemblies for endurance and function.

M/500 - 243 Win. - 6849595 - Test gun #W34

M/600 - 243 Win	6849565 - Test Gun #W35
<u>Test Activity</u> .	 Aduse M/700 Trigger Housing R&D. Bolt lock ground off for sear lift measuring. Safety swaged with projection at initial cam. 50,000 Safe on - Safe off 10,000 Cock and dry fire. W D 40 Lubricant. Inspection / measured every 10,000.
<u>Test Results</u>	 Safe on sear lift loss due to dry cycling was less than .002 inch. and fairly uniform. Safe on force ranged from 5.0 Min. to 10.0 Lbs. Max. Safe off force ranged from 3.0 Min. to 6.0 Lbs. Max.

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To: W.E.Leek From: A. A. Hugick June 30, 1975 M/600 Safety Evaluation - Report #6 Page 2 _____ TEST OBJECTIVE: - Cont'd 1. Test Results - Cont'd - Safety cam, pivot pin and trigger housing shows little to no wear indication. - The sear at safe cam contact area shows wear and chrome plate removal. - Safety function - okay. 2. M/600 - 243 Win. - 6846934 - Test Gun #36 M/600 - 243 Win. - 6846789 - Test Gun #37 Test Activity - Adused M/700 trigger housing (R&D). - Bolt lock ground off for sear lift measuring. - Safety swaged with continuous cam and increased sear lift. - 50,000 safe on- safe off cycles. - 10,000 cock and dry fire cycles. - W D 40 lubricant. - Inspection / measured every 10,000. Test Results - Safe on sear lift loss due to dry cycling was less than .002 inch with limited uniformity. - Safe on force ranged from 10.0 Max. to a Min. of 5.0 lbs. - Safe off force ranged from 6.0 Max. to a Min. of 3.0 lbs. - Safety cam, pivot pin and trigger housings show little to no wear indications. - Sear at safe cam contact area shows wear and chrome plate removal. - Safety function was okay.

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M/600 - 243 Win. - 6849595 - MACHINE DRY CYCLE

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50,000 SAFE ON - SAFE OFF CYCLES 10,000 COCK AND DRY FIRE CYCLES W D 40 LUBRICANT - JUNE 1975

Rifle disassembled for inspection A. A. Hugick Bolt Striker Assembly - Okay.

Fire control disassembled for inspection A. A. Hugick.

- Aduse 700 trigger housing hardened right panel little to no detent area deformation.
- Safety pivot pin shows minor wear due to pivoting of safe.
- Sear shows a slight step due to action of safety cam.
- The interrupted safety cam shows limited wear at initial cam.



AAH:bd Measurement/Test Lab Ilion Research Division

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R2506164 **BARBER - PRESALE R 0105176**

REPORT #6 #W35

BARBER - PRESALE R 0105177

M/600 SAFE EVALUATION

M/600 - 243 Win. - 6849565 - MACHINE DRY CYCLE

50,000 SAFE ON - SAFE OFF CYCLES. 10,000 COCK AND DRY FIRE CYCLES W D 40 LUBRICANT - JUNE 1975

Rifle disassembled for inspection per A. A. Hugick. - Bolt striker assembly - Okay.

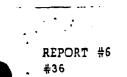
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Fire control disassembled for inspection A. A. Hugick.

- Aduse 700 trigger housing w/hardened right panel shows littleto-no detent area deformation.
- Safety pivot pin shows minor wear due to rotation of safe assembly.
- Chrome plate is worn off due to action of safety cam.
- The interrupted safety cam show limited wear at initial cam.

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M/600 SAFE EVALUATION

M/600 - 243 Win. - 6846934 - MACHINE DRY CYCLE

50,000 SAFE ON-SAFE OFF CYCLES 10,000 COCK AND DRY FIRE CYCLES W D 40 LUBRICANT - JUNE 1975

Rifle disassembled for inspection

- Bolt and striker assembly - okay.

Fire control disassembled for inspection.

- Aduse 700 trigger housing hardened right panel little-to-no detent area deformation.
- Safety pivot pin show brightness and galling due to safe pivoting.
- Sear shows a step due to cam action of safety.
- Safety swaged cam shows limited wear at initial cam.

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REPORT #6 #37

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M/600 SAFE EVALUATION

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M/500 - 243 Win. - 5846789 - MACHINE DRY CYCLE

50,000 SAFE ON - SAFE OFF CYCLES 10,000 COCK AND DRY FIRE CYCLES W D 40 LUBRICANT - JUNE 1975

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Rifle disassembled for inspection - A. A. Hugick. - Bolt & striker assembly - Okay.

Fire control disassembled for inspection. - Results are like results of Test Gun #36.



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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON R2506167 BARBER - PRESALE R 0105179