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REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

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QUALITY

Xcc: R. J. Bell
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"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

Illon, New York
January 29, 1974

TO: C. E. WORKMAN
FROM: A. A. HUGICK
DATE: JANUARY 28, 1974
SUBJECT: RESEARCH QUALITY AUDIT
M/700 VARMINI CAL. 25/06, 6mm, 243
TEST PERIOD: JAN. 18, 1974 thru JAN. 28, 1974
WORK ORDER: 88800

INTRODUCTION:

Eighteen (18) BDL grade Model 700 Varmint rifles, six (6) in 25/06 caliber, six (6) in 243 caliber, and six (6) in 6mm caliber were withdrawn from the warehouse for Research Quality Audit Testing. Testing was confined to accuracy and function due to recent testing of 7mm Rem. Mag., 270, 25/06, 243, 6mm, L. H. 7mm Rem. Mag., and 22/250 rifles for 1974.

TEST OBJECTIVE:

Research Quality Audit warehouse M/700 BDL Varmint 25/06, 243, 6mm caliber rifles.

TEST OBSERVATIONS:

1. The eighteen (18) gun sample showed extreme variety of muzzle chamber. Ranging from horns to approximately .020 chamber. The enclosed photo best illustrates this variety.

TEST OBSERVATIONS: (Continued)

2. Gun #10 serial number 6703456 magazine floor plates opens during jack shooting the 100 grain factory load.
3. Gun #16 serial number 6686783 has a magazine box capacity of three (3) rounds if Win. 120 grain factory ammo. is not very carefully positioned in the magazine.

AAH:bd
Measurement Test Lab
Illion Research Division

	THIRTEEN	FOURTEEN	FIFTEEN	SIXTEEN	SEVENTEEN	EIGHTEEN
CALIBER	25-06	25-06	25-06	25-06	25-06	25-06
SERIAL NO.	6690768	6686839	6691232	6686783	6689315	6691736
HEADSPACE-MIN ⁺	.002	.001	.005	.001	.001	.001
FIRING PIN INDENT	.0235	.0225	.0240	.0225	.0230	.0210
TRIGGER PULL	4.50	3.75	4.75	4.75	4.00	4.00
LENGTH	44 ⁷ / ₁₆	44 ³ / ₈	44 ⁷ / ₁₆	44 ⁵ / ₁₆	44 ⁷ / ₁₆	44 ³ / ₈
WEIGHT LBS-OZ	9-2	9-2	8-15	8-12	8-15	9-2
<u>ACCURACY</u>						
GROUP SIZE-3XS	0.99	1.22	1.30	_____	_____	_____
HORIZ. SPREAD	0.67	0.91	0.81	_____	_____	_____
VERT. SPREAD	0.87	0.86	1.09	_____	_____	_____
<u>FUNCTION</u>						
ROUNDS						
FIRED IN JACK				40	40	40
MALFUNCTIONS				X	0	0
OTHER				BOX CAPACITY WITH WIN 120	0	0

	ONE	TWO	THREE	FOUR	FIVE	SIX
CALIBER	243	243	243	243	243	243
SERIAL NO.	6702164	6703912	6705843	6700683	6704371	670175E
HEADSPACE-MIN.	.002	.002	.003	.002	.002	.002
FIRING PIN INDENT	.0240	.0240	.0240	.0250	.0245	.0260
TRIGGER PULL	4.00	3.75	4.00	3.75	4.00	4.55
LENGTH - IN.	43 1/2	43 7/16	43 1/2	43 1/2	43 1/2	43 1/2
WEIGHT LBS.-OZ.	8-11	8-14	9-0	8-15	8-14	8-13
<u>ACCURACY</u>						
GROUP SIZE-3X5	1.59	1.10	1.06	—	—	—
HORIZ. SPREAD	1.33	0.84	0.72	—	—	—
VERT. SPREAD	0.75	0.93	0.96	—	—	—
<u>FUNCTION</u>						
ROUNDS						
FIRED IN JACK	—	—	—	70	70	70
MAE FUNCTIONS	—	—	—	0	0	0
OTHER	—	—	—	—	—	—

	SEVEN	EIGHT	NINE	TEN	ELEVEN	TWELVE
CALIBER	6 MM	6 MM	6 MM	6 MM	6 MM	6 MM
SERIAL NO.	6700732	6703189	6703456	6700660	6702383	6702855
HEADSPACE - MIN ⁺	.001	.001	.002	.001	.001	.000
FIRING PIN INDENT	.0220	.0215	.0245	.0230	.0225	.0235
TRIGGER PULL	3.55	4.50	3.50	5.00	5.75	4.50
LENGTH	43 1/2	43 1/2	43 9/16	43 1/2	43 9/16	43 9/16
WEIGHT - LBS-OZ	8-13	8-10	8-12	8-15	8-12	8-9
<u>ACCURACY</u>						
GROUP SIZE - 3x5	1.22	1.00	1.11	—	—	—
HORIZ. SPREAD	1.07	0.90	0.91	—	—	—
VERT. SPREAD	0.82	0.72	0.65	—	—	—
<u>FUNCTION</u>						
ROUNDS						
FIRING IN JACK				30	30	30
MALFUNCTIONS				X	0	0
OTHER				FLOOR PLATES OPEN IN TEST	—	—