



DEPARTMENT OF THE ARMY
HEADQUARTERS THE UNITED STATES ARMY MARKSMANSHIP UNIT
FORT BENNING, GEORGIA 31905

AFMU-OD

21 July 1977

PLAN OF TEST OUTLINE

Subject: Remington Model 40XC Caliber 7.62 mm Rifles

Objective: Suitability of Remington Model 40XC Rifles

1. Authority: Letter from Remington Arms Company, dated 29 October 1976.

a. Directive: Test and evaluate Remington Model 40XC Rifles submitted by Remington Arms Company for international 300 meter target shooting.

b. Purpose: To determine and procure the best available target rifles for 300 meter international shooting.

2. Description of Material:

a. Equipment:

(1) Remington Model 40XC Caliber 7.62 barrel actions #047779C, #047772C, #047787C.

(2) Test cradle.

(3) Parks Range - 300 meters open range.

b. Ammunition:

(1) 180 rounds, 1-168-77 USAMU international handloads.

(2) 180 rounds, JENSEN USAMU international handloads.

(3) 90 rounds, C-8-77* USAMU national match handloads.

(4) 90 rounds, C-8-77* USAMU national match handloads.

* Same loading components

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3. Plan of Test: Three 10 round shot groups from each ammunition will be fired from each of the barrel actions prior to USAMU altering. Additionally, three 10 round shot groups from each ammunition will be fired from each of the barrel actions after USAMU altering of rifles. All firing to be conducted at 300 meters using the cradle. Firing to be conducted, when possible, during early morning hours offering best environmental conditions. Also, any malfunctions will be noted and recorded.

4. Conduct of Test: Firing was conducted during morning hours of 15 October 1976 and morning and afternoon hours of 18 July 1977 according to test plan. Temperature during the October firing was from 68-72 degrees with the wind from 3 o'clock at 2 to 4 mph. Temperature during the July firing ranged from 80-90 degrees with wind from 11-1 o'clock at 6 to 8 mph. There were no malfunctions during the test.

5. Results of Test:

a. Rifles prior to altering:

#047772C	Ammunition	Three 10-Round Groups			Average for Three Groups		
		V	H	ES	V	H	ES
#047772C	1-168-77	3.2	1.5	3.2	2.8	2.3	3.3
		2.3	2.5	3.1			
		3.0	2.5	3.6			
	JENSEN	3.5	3.0	3.7	3.5	3.0	4.0
		3.5	2.0	3.7			
		4.5	4.0	4.7			
	C8-76	3.2	3.0	3.4	2.9	2.3	3.0
		2.5	1.7	2.6			
		3.0	2.2	3.0			
#047779C	1-168-77	2.9	2.9	2.9	2.9	2.9	2.9
		3.0	3.1	3.1			
		2.1	2.7	2.8			
	JENSEN	3.2	3.3	4.0	3.6	2.4	3.9
		3.9	2.0	4.0			
		3.8	2.0	3.8			
	C8-76	3.1	3.0	3.7	3.3	2.8	4.1
		3.9	2.5	4.2			
		4.0	3.0	4.5			

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#047787C	1-168-77	1.9	2.7	2.8			
		2.9	2.0	3.0			
		3.0	3.5	4.1	2.6	2.7	3.3
	JENSEN	3.8	2.8	4.5			
		3.7	3.0	4.2			
		3.2	3.7	4.5	3.6	3.2	4.4
	C8-76	2.5	2.0	2.5			
		3.5	4.0	4.0			
		3.8	3.2	4.5	3.2	3.1	3.7

b. Rifles after altering (recrowned, polished bolt body, polished firing pin, installed stronger firing pin spring).

#	Ammunition	Three 10-round Groups			Average for Three Groups		
		V	H	ES	V	H	ES
#047772C	1-168-77	4.3	2.3	4.6	4.3	2.2	4.1
		4.4	2.3	4.4			
		3.4	2.1	3.4			
	JENSEN	3.4	2.7	4.0	4.0	2.4	4.3
		3.1	2.4	3.3			
		5.4	2.2	5.5			
	C8-77	1.6	1.5	1.8	2.3	2.5	3.2
		4.0	2.7	4.7			
		1.4	3.2	3.2			
#037779C	1-168-77	3.2	3.0	3.3	2.6	3.0	3.3
		2.0	3.3	3.4			
		2.7	2.8	3.3			
	JENSEN	4.5	2.6	4.7	3.3	2.5	4.1
		3.7	1.9	4.0			
		2.8	3.0	3.7			
	C8-77	3.2	1.9	3.2	2.3	2.1	3.2
		1.6	1.7	2.3			
		2.2	2.7	3.1			
#047787C	1-168-77	4.8	3.3	5.0	4.4	2.8	3.0
		3.3	2.3	3.8			
		5.1	2.7	5.2			

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#047787C (con't)	JENSEN	6.0	2.7	6.0			
		4.8	3.7	5.3			
		4.8	2.2	5.0	5.2	2.9	5.4
CB-77		3.5	2.2	3.6			
		1.9	3.4	3.6			
		1.1	2.1	2.4	2.2	2.6	3.2

6. Findings and Conclusions: From the limited test it appears that sample Remington Model 40XC Caliber 7.62 Rifles are of excellent quality and are designed and precision manufactured for competitive shooting.

7. Recommendations: Remington Arms Company, Inc., be considered as a source of target rifle procurement for future purchases. This report does not constitute as endorsement of Remington Arms Company, Inc., nor is it to be used for advertising purposes.

Raymond G. Gentry
for JOHN W. TOREBUSH
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Test & Evaluation Section