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RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 910161
W.O.# 018488
AUGUST 20, 1991

MODEL XP100R, 350 REM MAG, DESIGN ACCEPTANCE

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ABSTRACT:

Research and Development finds the Design Acceptance Evaluation of the Model XP100R, 350 Rem Mag, to be acceptable. The evaluation consisted of Accuracy and Field Function.

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Report# 910161

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Work Order# 018488

MODEL XP100R, 350 REM MAG, DESIGN ACCEPTANCE

TO: J.R. Snedeker
FROM: D.R. Thomas

INTRODUCTION:

In June of 1991 the test lab conducted a Design Acceptance Evaluation of the Model XP100R (350 Rem Mag). The evaluation used three pistols and consisted of accuracy and a field function.

SCOPE OF THE TEST:

To determine if the XP100R, 350 Rem Mag, sample would meet the Remington Specifications for accuracy and would function properly in a field function test.

TEST RESULTS:

ACCURACY:

The Remington specification for group size for the XP100R, 350 Rem Mag is 2.8 inches at 100 yards.

The average group size shot with Remington ammunition was 2.04 inches.

FIELD FUNCTION:

Three pistols were each field tested with Remington R350M1 and 1350 ammunition. Gun #B7534318 had three bolt override malfunctions in the 20 rounds fired for a 15% malfunction rate.

The gun was sent to the custom shop for repair, however there was no defect found. The gun was retested with no further malfunctions.

Guns # B7532019 and B7534299 shot clean in the 20 round field test.

It is possible that the malfunctions in the first field test were caused by short stroking the bolt.

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REPORT TEXT:

GENERAL:

The following three XP100R pistols were used for the Design Acceptance Evaluation:

B7532019

B7534318

B7534299

ACCURACY:

All three XP100R pistols were used in the accuracy test.

Remington 200 gn. PSP ammunition was used for accuracy testing.

The Remington Model 700 accuracy specification for 350 Rem Mag was used for the XP100R. This spec. calls for a maximum group size of 2.8 inches from center to center.

Accuracy results per individual pistol are located in the appendix of this report.

FIELD FUNCTION:

All three XP100R pistols were used in the Field Function Test. The pistols were fired 20 rounds each in the Field Function Test conducted at the Ilion Fish and Game Club.

Remington R350M1 lot # F21LB4523 and Remington 1350 lot # LX26CD were used in the field function test.

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TEST PROCEDURE:

ACCURACY:

Three, five shot groups were shot with each of the three pistols. The accuracy was shot by R. Keeler in the Plant Gallery 100 yard range.

Before each group was shot the bore was cleaned with Hoppes, wiped dry with a clean cloth patch and one fouling round shot through the pistol.

The targets were analyzed for group size using the HP 9000 computer and digitizing tablet.

FIELD FUNCTION:

All three pistols were subjected to the loading and firing of 10 rounds of each ammunition type for a total of 20 rounds per gun.

The field function test was conducted at the Ilion Fish and Game Club.

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APPENDIX

100 YARD ACCURACY RESULTS

<u>SERIAL #</u>	GROUP 1 (in.)	GROUP 2 (in.)	GROUP 3 (in.)	AVERAGE (in.)
B7532019	2.746	2.303	1.992	2.35
B7534318	1.292	2.250	2.114	1.89
B7534299	2.208	1.498	1.942	1.88
Overall Average Group Size				2.04