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TLW0010

Remington Arms Company Inc.
RESEARCH & DEVELOPMENT TECHNICAL CENTER
315 WEST RING ROAD
ELIZABETHTOWN, KY 42701

INTRODUCTION

The Model 710 Centerfire Rifle is a new product line for the Remington Arms Company designed to be an economical alternative for the Bolt Action Centerfire rifle customer.

This report will review and summarize the results of various Design Acceptance Tests (DAT #1 & #2) conducted during the time period April 2000 and October 2000 at the Remington Arms Company, Inc., Research & Development Technical Center located in Elizabethtown, KY.

Due to the extensive nature of the testing that embodied this new product it was determined that this report would consist of two parts. Part A (this document) presents a brief explanation of each of the individual tests that were a part of the overall test plan, along with a brief review of the results for that particular test. Part B consists of 2 large binders and contains the raw data, tabulated results and additional individual test reports associated with the test program. It is more extensive in both volume and detail and is intended to give the reader an in-depth look at each of those same tests. It gives details such as the flow charts for the DAT test plan, copies of the individual test requests and the reports and/or the data that was generated during the completion of a particular test. Part B locates in one place all of the pertinent information that is summarized in Part A.

Part B is divided into two parts. B.1 contains the information pertinent to Phase I of the test program and B.2 contains the information pertinent to Phase II of the test program along with copies of additional supplementary tests that were not part of the original test plan.

For easy reference and consistency, the same section numbering scheme is used in Part A and in Part B.

As a result of testing for DAT # 1 certain problems were identified and needed correction before testing continued. Design changes were made and the second test program was started (DAT # 2). Additional problems were identified as testing continued and the decision was made to correct identified problems and conduct a ten-gun post DAT test. At the completion of this test there were still issues that needed to be resolved. Given the time schedule for introduction, the decision was made to move directly to Trial & Pilot testing where proposed design changes would be incorporated into the T&P samples and the Trial & Pilot testing would confirm the design as well as the production process.

The following is a partial listing of the open issues still to be resolved by the Trial & Pilot Testing:

- Bolt Handle Braze failures
- Followers sticking in magazine boxes.
- Inconsistent Bolt Stop Detent
- Bolt Closing Force high

Jan.2001 Design Acceptance Test Remington M/710 Centerfire Rifle;
R & D Technical Center Project No. 241039; TLW 0010
file: F:\Test Reports \Firearms Tests \M710_DAT_REPORT_JAN01_Rev1.doc

Page 7

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