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

Remington Arms Company, Inc.

Test Report – Trial & Pilot Test

June 2001

M/710 Centerfire Rifle w/ Iron Sights

Caliber: .30-06 Springfield

ABSTRACT:

This Report covers the results of the Trial & Pilot Testing (T&P) procedures performed on the Remington M/710 Centerfire Rifle w/ Iron Sights during January & then May 2001 at the Remington Arms Company, Inc., Research & Development Technical Center located at Elizabethtown, KY.

This Testing Program was organized around the goal of determining if this new product met design specifications specified by R&D and produced using production methods and processes at the Remington Arms Mayfield KY plant.

The M/710 in .30-06 Caliber with Bushnell Scope successfully passed T & P testing during the 4th Quarter, 2000. This new product offering is identical in every way to the initial offering with one exception, the elimination of the Bushnell scope and the addition of iron sights. A Test Plan was developed with the primary focus of testing only those performance characteristics directly effected by this sighting system change.

The following general grouping of test procedures were used to determine product and process capability.

1. – Headspace and Proof Mark Checks
2. – Accuracy (POI Sight Adjustability)
3. – Abusive Testing (S&AD Drop, Jar-Off, Rotation)
4. 60 Rd. Live Fire Test
5. Firearms Measurements (Sight Hole Depth)

After reviewing each of the individual tests in this test program, the Research Test Lab and the Research Design Group have concluded that this product met the acceptance requirements as set forth by the Trial & Pilot Test Plan. Initial inspection of sight hole depths during Iteration 1 were measured under minimum drawing specification on all sight holes. The inspection method used was questionable, therefore this data is suspect. Three new iron sighted guns were received in June for other testing were inspected for sight hole depth and all hole depths measured in specification. It was noted that Mayfield is now using an endmill. This measurement is dependent on the type and dimension of the probe used. A larger probe tip will yield shallower measurements since it will not indicate at the lowest point in the hole. Since no sight bases loosened during the live fire testing (thread engagement is adequate) and a shallow hole poses no safety concern Mayfield is instructed to check this process with production gages and adjust the process if needed. No further follow up verification will be required beyond this recommended self audit.

Report Prepared By:

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/ June 2001

May 2001 Trial & Pilot Test Remington M/710 Centerfire Rifle w/ Iron Sights;
R & D Technical Center Project No. 241095; TI.W0395, TI.W0405, TI.W 0505
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