

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE



Xc: D. S. Findlay
J. A. Lawrence
R. S. Murphy

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

April 23, 1984

To: W. H. Coleman, II

From: J. W. Bower

Monthly Report - Firearms Research - April

New Product Development - Shotgun: (D. S. Findlay)

Model 1100 Special Field - 12 Gauge (T. P. Powers)

Testing of the 12 gauge trial and pilot sample for fore-end strain and breakage was acceptable. No fore-end cracking occurred in 22,481 rounds fired in five guns.

However, the trial and pilot sample was rejected, based on the failure of a separate part in one gun from the five gun endurance sample. In this one gun, the forward, threaded section of the magazine tube separated at 2,481 rounds. Part failure is believed to have started from a crack in the swaged detents which hold the magazine spring retainer. Examination of the trial and pilot sample, as well as parts in Production, indicated that a high percentage had cracks in this area.

The design of the detent has been revised to eliminate sharp corners, and Production has likewise changed their tooling. This will allow Production, at least on an interim basis, to make acceptable product. Research and Production are reviewing other possible changes in the design and/or process to assure continued acceptable product.

Production has been requested to replace all magazine tubes that have cracked detents. They have further been requested to supply an additional trial and pilot sample.

Models 870 and 1100 Waterfowl

(T. J. Plunkett)

At the April 19 meeting, the Operations Committee approved the economics and prototype samples of these new guns. The parts list and drawings package will be transmitted to the Plant by May 1.

Model 1100 Functional Improvement Program

(T. G. Bauman, et. al.)

Research into performance of the Model 1100 is complete. Nine priority items covering four major design deficiency areas will be included in this program:

<u>Design Area</u>	<u>Design</u>
• Gas System	Friction Brake Manual Selectors
• Action Smoothness	Fire Control Modifications Other Areas
• Feeding	Carrier Assembly
• Endurance Life	Magnum Action Spring "O"-Ring Piston/Piston Seal Extractor

New Product Development - Centerfire

(R. S. Murphy)

Model 700 Mountain Rifle

(F. E. Martin, K. L. Calkins)

At the April 19 meeting, the Operations Committee approved this item, pending a review by the Firearms Strategy Team to determine appropriate timing. The parts list and drawings package is ready for transmittal.

CAD modeling of the stock is progressing. Research is working closely with Production to assure that the modeling is complete in time to begin build of the stock former.

Model Seven - .308 Caliber

(R. S. Murphy)

Research has received a preliminary sample from Production. Verification testing of the aluminum floor plate design is progressing. No deficiencies resulting from this design have been detected.

Current Products

(J. A. Lawrence)

Model 870P Riot Gun

(T. G. Bauman, A. A. Hugick)

Design confirmation testing of the "flexi-tab" carrier is complete. Field functioning and endurance testing were both satisfactory. The drawings package will be transmitted for all Model 870's, based on the April 19 approval of the Operations Committee.

The "flexi-tab" design will be included as part of the Model 870 Restyle, scheduled for Production in 3Q-84.

Model 700 BDL Magazine Follower

(J. A. Lawrence)

The model drawing transmittal for an injection molded magazine follower was made on April 16. Powder Metal has begun production.

JWB:ws