

F-157

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

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May 13, 1983

TO: C.B. WORKMAN
FROM: T.L. CAPELETTI *TC*
SUBJECT: ITEMS FOR STAFF MEETINGModel Seven Bolt Action Rifle

Preliminary test results on the aluminum trigger guard and floor plate assembly look promising. Eleven (11) .308 Caliber rifles with aluminum assemblies have been test fired from the shoulder to 160 rounds each with no problems. Those guns will be endurance tested in jacks to 2,000 rounds to confirm acceptability of the design. However, implementation of the aluminum design into production will require approximately six (6) months.

To determine effects of assembly variables on performance of the current floorplate design, a sensitivity test is in progress. By May 25th, results of that analysis should provide information on adjustments required to produce acceptable guns. Preliminary results indicate that the present design will work in production with careful adjustment of the latch. If those results are confirmed by further testing, production could resume until the aluminum assemblies are available.

Model 1100 Special Field Shotgun

Eleven (11) Trial and Pilot 20 Gauge guns are currently in test to determine acceptability of those guns for production. The acceptance criteria is 5,000 rounds (70% Field, 20% Express, 10% Magnum loads) with no cracks in the fore-ends. Three (3) guns have completed 5,000 rounds,

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Model 1100 Special Field Shotguns - Contd.

two (2) have completed 3,000 rounds, and three (3) have completed 2500 rounds. Testing of all eleven (11) guns will be finished by Monday, May 16th.

Potential solutions to the 12 Gauge cracking problem can be categorized as follows:

(Date to complete evaluation)

1) Short Term

- x - Current design *(5/17 - Not acceptable)*
- Modified finger grooves (increased wood thickness)
- Standard Model 1100 contour (shortened) *(5/17)*
- ~~Relocation of the reinforcing pin~~
- Addition of a fiberglass liner (?)
- ~~Relief cut on front face (5/17 - Not acceptable)~~
- ~~Relief cut on back (5/26)~~

2) Long Term

- XSG detent system (in Magazine Tube) (?)
- 20 Gauge tube end *(5/23)*
- Black plastic tip *(5/25)*
- Elastic Buffer insert *(5/23)*
- Epoxy impregnation *(6/15)*
- Metal liner (?)
- ~~Newton force of gas cylinder (5/27)~~

5/26 cut (5/25)
Angled Finger grooves (5/25)
Angled grooves + .800" dia. tapered cut (5/25)
Reinforced finger groove + P. reinforced (5/26)

Testing of the short term solutions will be completed by June 1st.

Model 870 Special Field

Based on verbal approval at the April 28th Operations Committee Meeting, drawings have been transmitted to Production.

Programs for 1985

Decision by the Marketing Department on model requirements for the Model 870 Restyle and the Model 700 Lightweight are required by June 1, 1983! If a decision is not made at that time, it will not be possible to meet the November 1984 deadline for warehousing product.

TLC:js