

LIMITED DISTRIBUTION

ILION RESEARCH DIVISION

MONTHLY PROGRESS REPORT

JULY

1977

MODEL 1100 IMPROVEMENTS

Samples for the interlocked system are scheduled for completion by the vendor in mid-August.

A 500 piece sample of the carrier latch retainer is due in mid-August. They will be evaluated in 3" Magnum gun only. No further efforts to change the unloading characteristics will be made.

MODEL 1100A

Two engineering prototypes have been assembled with testing to begin in mid-August.

MODEL 742-760 NEW GENERATION

Detail drawings for the new magazine box are complete, and layout work is now being done for the follower.

The power problem with the 308 Caliber has not yet been corrected. New parts are in the Model Shop.

Firing pins made from 8620 material have solved the breakage problem. Three pins have been tested to 3500 rounds with no breakage, cracks or unusual wear.

All firing pin, breech bolt and bolt carrier changes have been transmitted to the plant.

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*Remington Arms Company, Inc.*

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MODELS 552-572 (1978 Version)

"Nylafil" Trigger Guard - Samples run on the original die with the die chrome plated will be received the week of July 25. Testing will begin when received.

NYLON 66

Decision is needed from Marketing on the black gun to meet the 1978 announcement date.

Cost estimate is being worked up by the vendor for the scope mount. This mount is currently being tested for accuracy.

The manual hold open device is in the Model Shop and three more will be made. An automatic hold open device is also being investigated.

Following the vacation shutdown a meeting will be set up to review a series of drawings prepared by the design consultant.

NEW AUTOLOADING RIMFIRE RIFLE

Nothing new to report.

MODELS 1100 and 870 WATERFOWL GUNS

No further work is planned unless Marketing requests it.

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MODEL 700 CLASSIC

No further work is anticipated other than support to the plant during trial and pilot.

MECHANICAL TRAPS

Work is progressing on schedule.

MODEL 870 COMPETITION TRAP GUN (Recoil Reduction)

Three prototype guns have been assembled. All have a recoil reduction system and overbored barrels for improved pattern performance. The guns have the following features:

- One with M/1100 style trap rib
- One with M/1100 style trap rib and pattern control device
- One with adjustable rib and pattern control device

The guns have the proper weight ( $8\frac{1}{4}$  to  $8\frac{1}{2}$  lbs.) and have good pointing characteristics. They will be tested extensively at trap shooting and their bird breaking attributes will be compared directly with the leading competitive trap guns. Our development effort will now be concentrated on improving the bird breaking attributes of the competition model and optimizing the performance of our proprietary features.

We have completed individual research cost estimates of the proprietary features and they are well within our expectations. Gun costs are being generated by Research with an expected completion in September.

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BENCH REST BULLETS

Over 100,000 cups have been made, and over half of these have been run through first draw, and approximately 20,000 through second draw. Forty thousand (40,000) lead slugs have been made ready for core seat.

The unofficial world record as reported last month has been confirmed, making the record official.

A proposal to market bench rest bullet jackets has been forwarded to Marketing for their consideration.

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