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ILION RESEARCH DIVISION  
MONTHLY REPORT  
NOVEMBER 1974

FIREARMS

M/870 EXPENDABLE CASE

Test firing which was started resulted in several misfires and dictated a redesign of the firing pin configuration. Excessive pressures have been experienced with portions of the cases left in the chamber. Continuation of test has resulted in alterations to comply with case design changes. Integrity of the shell is sensitive to headspace dimensions.

NEW CONCEPT RECEIVER FABRICATION

Redesign has been completed and an analysis of cost to include a molded polyurethane stock and fore end is in progress.

MODEL 742 IMPROVEMENTS

Several parts have been completed. It is planned to test fire the gun with these improvements in December.

MODEL 1100 - 20 Gauge LIGHT WEIGHT SKEET

Still awaiting design approved for release to production.

MODEL 1100 PRODUCT IMPROVEMENTS

Most of the design improvements have been transmitted to the Plant. Testing of the new buffer design, shell latch attachment, tossed action bars and new piston design is planned for December.

*Remington Arms Company, Inc.*

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MODEL 1100X

Testing of the new assembly is scheduled for the first quarter of next year.

BICENTENNIAL MODELS

The Models 1100 and 572 are completed. Other models such as the M/742, 760, 870, Nylon 66 and 552 will be completed and ready for presentation at the December Operations Committee Meeting.

MODEL 3200 SMALL GAUGE BARREL SETS

New redesign of the contour for the 410 Gauge system is complete. Entire set of all gauges will be available for evaluation the first quarter of 1975.

MODEL 3200 COMPETITION GRADE

Four trap models are complete containing various conceptions as to finish and rib design. Two skeet models will be completed in December.

MODEL 3200 FIRE CONTROL IMPROVEMENT PROGRAM

All design changes have been made and transmitted to Production, resulting in the following advantages to this model:

1. Fire control insensitive to stock bolt torque.
2. Fire control is stable and will stay in adjustment.

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MODEL 3200 FIRE CONTROL IMPROVEMENT PROGRAM Continued

3. Increased endurance life of tang system.
4. Reduction of stock breakage due to tang flexure.
5. More constant and uniform trigger pull.
6. The modified tang system makes the fire control less sensitive to abuse or misuse.

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