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FIREARMS RESEARCH DIVISION

PROGRESS REPORT

JULY 1980

HIGHLIGHTS

*Remington Arms Company, Inc.*

## FIREARMS

### PRODUCT DEVELOPMENT

#### Model XSG Shotgun

Testing is in progress on an XSG with a modified Model 1100 gas system and new square wire action spring.

Preliminary layouts have been started on the XPG.

#### Model 7400

The Plant will start final assembly and training the week of July 28. Research will assist in this effort.

#### Model 700 Bolt Lock

Preliminary testing of the bolt lock design on the Bolt Action Carbine has been completed with favorable results. Production cost estimates are being reviewed.

#### Model 700 Fire Control

Problems have been found with the first new design fire control which allows the firing pin to fall when the bolt handle is raised. The design is being reviewed.

The No. 2 and No. 3 designs are being finalized and completion for test is now expected in August.

#### Seismic Project

Fifteen guns are now being assembled.

A problem of delayed firing has been found when setting up more than one gun to fire simultaneously. The guns will not be released to Mapco until this has been resolved. A four gun multiple firing system has been set to fire primed cases in the Test Lab to try to isolate the problem.

#### Model 870 Competition Trap Shotgun

Strain gauge testing has indicated that a buffered piston will reduce the stress on the vent rib of this model to a satisfactory level. Two Competition Trap shotguns are now in live firing tests with the latest designs incorporated in them. Testing is expected to be completed by the end of July, at which time a decision will be made on transmittal of final drawings to Process Engineering.

Bolt Action Carbine

Marketing is compiling the data from the field test on this model and reviewing the latest cost figures.

Model 788 Safety

A design has been completed on a new one piece safety and button.

Improvements to increase the force necessary to release the safety are being developed. Parts are expected to be ready for testing by the end of July.

PROCESS DEVELOPMENT

Four Slide Machine

The Four Slide Machine is now complete and ready for tooling. A quotation has been received for tooling to produce the Models 7400-7600 Magazine Follower.

Integral Ejectors

Cost savings of \$46,900 per year have been credited to Research for the Model 1100 - 12 Ga. integral ejector which is now in full production.

LT-20 barrels have been field tested satisfactorily. Endurance testing has been temporarily postponed for higher priority jobs.

Rivetless Extractors

Rivetless extractors on regular (30-06 Caliber) and small (.222 Caliber) sizes have been satisfactorily field tested in the new bolt action carbine.

Auto-Drill Line

The millwright work is now being completed around the chip system. Oil procurement is scheduled so that the system can be filled and started during the first week of August. The machine line should be ready about two weeks later.

ASEA Manipulator

Schaevitz LVDT receiver repositioning system will be delivered September 30. Polishing program cycle time is currently being optimized.

Laser Welding

Metallurgically sound welds of the Model 1100 powder metal slide blocks and the XSG 8620 slide blocks were obtained. Welded samples will be available August 31 for functional testing.

Laser Wood Carving

A quote was received from Lasermation for the DU emblem engraving on the side of the LT-20 stock at \$8.42/unit for quantities of 1,000

\$8.25/unit " " 2,000

\$8.08/unit " " 4,000

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