

DON'T SAY IT—WRITE IT

TO E. F. BARRETT

DATE July 1, 1977

FROM C. B. WORKMAN

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NOTES FOR MANAGEMENT STAFF MEETING

M/1100 Improvements

Carrier Latch Retainer - Testing has indicated that a change in timing to correct unloading problems creates trapped shells on the low bolt velocity guns. We are now looking at the problem as related to the 3" gun only, to correct the malfunctions.

Interlock System - One design prototype has been fired in the test lab for 2,000 rounds with no apparent problems. Testing will continue.

M/1100 - 12, 16 & 20 Ga. - Checkering & Roll Marking

Complete on all checkering patterns; roll marking will follow.

M/1100 LT-20

Slug barrels for this model are in the test lab for evaluation. No problems are anticipated since this is an add-use from the standard 20 Ga..

M/1100A

On schedule.

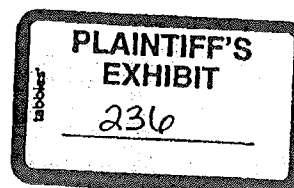
M/870 Trap Grade

Complete. Suggest dropping from report.

M/742-760

Four firing pins have been tested to date using 6150 material and shot peening. Two pins with a hardness spec Rc-54 went over the 2000 mark; two pins with hardness spec Rc-44 broke at 1000 rounds. Six additional pins are in the process of being shot peened and heat treated to Rc-54 for retest. Completion date for transmittal of drawings to plant is mid-July.

Note: One gun in 6mm has been test fired 8000 rds. with no other breakage.



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M/552-572

All drawings have been transmitted to the Plant except the "Nylafil" trigger plate.

Nylon 66

A review was made with design consultant (Siro Toffolon) on a number of drawings of roll markings, different names, etc.. His present assignment is to prepare a rendering for a new design stock, and then make a 3D model.

Colors to simulate gold are being looked at for the diamond on the black gun.

Sample scope mounts are now 95% complete and will be ready for review in July.

M/700 Improved Trigger Assembly

Design work has started on one of three planned safety mechanisms for the M/700 rifle. The three designs include three position safety, two position safety with bolt release on bolt plug, and two position safety with bolt release on bolt handle. The three designs will be evaluated from the cost, performance, ease of function and safety standpoints, and the best design will be proposed. All three designs permit the rifle to be unloaded with the safety in the ON SAFE position.

M/870 Competition Trap Gun

The three models to be shown at the July Operations Committee Meeting are in the final stages of fabrication. These models will be tested extensively against the leading competition which are the M/12 Winchester, BT99 Browning, and Perazzi single barrel. A Research cost estimate is being prepared on manufacturing costs of the M/870 Competition.

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ARMS

RESEARCH DEPARTMENT PRESENTATION - 1974

Our Arms presentation today involves a combination of product improvement and future development in all areas except rim fire. It is aimed toward an ever increasing program of improvement in product safety, functional performance, endurance and appearance. As we proceed with the presentation you will be exposed to a series of alternatives and recommendations.

Bolt Action - Center Fire

(Walker)

M/700

Product Safety
3 position safety
Appearance
Other calibers

M/788

Product Safety
Bolt handle and firing pin head
Appearance

Recommendations:

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