

To E. F. BARRETTDATE Sept. 1, 1977FROM C. B. WORKMAN

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NOTES FOR MANAGEMENT STAFF MEETING

Model 742-760 New Generation

Ten (10) additional Firing Pins of the new design and material have been produced by the Model Shop and ten (10) more are in process. These will be used for additional function and dry cycle testing.

The .308 Win. 742 New Generation is now functioning satisfactorily with the 180-grain ammunition. Bolt velocities are 10-15 in/sec. short of standard production gun velocities but orifice and nozzle holes have not yet been opened up to their maximum. The .308 has shot the last 400 rounds with only one malfunction.

Model 1100-A2

There are now 500 total rounds on gun number 01. A 200 proof round test and a static stress coat test have been conducted with no significant problems being encountered. Function testing has uncovered problems with the stainless piston and the multi-latch. Spring loads on the latch are being modified to insure reliable functioning. New stainless pistons of a slightly different design are past due from our vendor.

A contingency design for the gas system is being prepared which will use an additional 3 ounces reciprocating mass. This is one ounce more than the standard M/1100 and will result in improved recoil attenuation. It will also use a solid piston with no seal and 22% additional drive area.

M/870 Competition Trap Gun

The following testing program is under way on the three prototype guns:

1. Bird breaking characteristics: The model guns are being tested shooting trap in direct comparison to the leading competitive trap guns.
2. Endurance, performance and function:
 - a. Verification of pattern performance and point of impact with adjustable choke and rib.
 - b. Measurement of shoulder force reduction with recoil reducer.



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M/700 - M/600 Fire Control Improvements

Design work is continuing on a safety which will allow the rifle to be unloaded when in the "ON SAFE" position.

CBW:T