FIREARMS

Model 1100 Improvements

Dry cycle testing of the interlocked connector/disconnector systems is complete. Analysis of the results is in progress. Two guns have been sent to the Test Lab for shooting tests.

Design and drawing work for the weighted LT-20, 28 and 410 gauge skeet guns is complete and has been transmitted to the Model Shop. At Marketing's request we are also pursuing a contingency design which will match the three small gauge guns to each other, rather than to the 12 gauge gun.

Three guns with the spring loaded feed latch retention design have been sent to the Test Lab for additional shooting tests.

Model 1100 Waterfowl Gun

Design and drafting work is 50% complete. Work is on schedule and drawings will be transmitted to the Model Shop within two to three weeks.

XSG (M/1100A)

The 12/20 burst testing is complete on the XSG-2 version. Two barrels were shot although both were undersize at the 4-1/2" position. The first barrel was stopped after two tests due to small cracks starting in the barrel. The second barrel went 20 tests showing .040" expansion at the 4-1/2" position. High pressure testing will follow.

Model making on the XSG-3 prototypes is 85% complete. The critical path for completion is the fabrication of three parts by an outside vendor which is scheduled for completion in early April.

Model 742-760 New Generation

Three redesigns of the firing pin have been made and are in test. All three use smaller tip diameters to prevent primer blanking during proof testing. Other dimensions have been adjusted to permit strengthening the tip by shortening it.

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P.E. & C. has sent trial and pilot pins to an outside vendor for shot peening rather than doing it in house. Also, new breech bolt processing is planned to maintain better concentricity of internal holes.

Nylon 66 Improvements

Design and drawing work for the bolt lock is complete. Drawings have been transmitted to the Model Shop and outside vendors for fabrication of prototype parts.

Work on a new barrel mounted scope mount is in the layout stage.

Model 870 Competition Trap

Two shotgums have been completed with increased brazing area on the gas cylinder. One gun is being endurance tested and has been fired 37,000 rounds with satisfactory performance. The test is continuing. This gun also has the new, short fore-end sleeve which is functioning satisfactorily.

The second shotgum has been pattern tested and is now being compared to a Model 1100 for recoil reduction.

Receivers for the four Marketing field test guns are ready for coloring.

Model 600 Carbine Styling

A Model 600 action with the Model 700 fire control and bolt handle has been fitted to a stock. The model will be completed by April 1, 1978.

Model 541 - 22 Hornet

Design work has begun on an ejector. During the first week in April a single shot prototype will be assembled.

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Model 700

Two prototype bolt lock systems have been assembled on rifles. The third is being fitted.

A new trigger and sear safety cam are being worked on in the Model Shop. The projected, end of March, completion date has been extended to the first week of April.

Bench Rest Bullets

Fifty thousand, $6\,\mathrm{mm}$ - $68\,\mathrm{gr}$. bench rest bullets have been shipped to the warehouse.

Industrial Engineering is reviewing the bullet manufacturing process prior to an efficiency study.

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