

MONTHLY PROGRESS REPORT - March 1978

3-23-78  
KWSoucy  
JSMartinMODEL 1100 IMPROVEMENTS

All dry cycle testing of interlocked connector/disconnector systems is complete, awaiting results. Two guns have been sent to the Test Lab for shooting tests.

All design and drawing work for weighted LT-20, 28 and 410 Ga. Skeet guns is complete and transmitted to the Model Shop. One part is being made by an outside vendor and has been ordered. <sup>at marketing's request,</sup> We are also pursuing a contingency design which will match the three small gauge guns, but not the 12 Gauge.

Three guns ~~equipped~~ 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. The job <sup>is on schedule and</sup> should be transmitted to the Model Shop within two to three weeks.

XSG

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

Model making on XSG-3 prototypes is 85% complete. The critical path for completion is three parts from an outside vendor which are due in early April.

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M/742-760 NEW GENERATION

Three redesigns of the firing pin ~~are being fabricated and will be~~ *have been made all* in test, ~~by~~ *next week*. All three designs use smaller tip diameters to prevent primer blanking during proof. Other dimensions have been adjusted to allow shortening of the tip to maintain strength.

P.E. & C. has now 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

All design and drawing work for the bolt lock is complete. Drawings have been transmitted to the Model Shop and outside vendors for prototypes.

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

KWS:T