

FIREARMS

PRODUCT DEVELOPMENT

Model 1 XSG Shotgun *in process AN XSG*

Testing is under way on a ~~previous model~~ with a modified 1100 gas system and new square wire action spring. *W* Preliminary ~~tests~~ *HAVE BEEN* started on the XPG.

Model 1 7400

The Plant will start *Final* assembly and training the week of 28. Research will assist in this effort. ~~All pertinent testing~~ *the Models 7400-7600 has been completed with exception of the smaller heavy wall boxes and alternate ejectors. These are now in*

Model 1 700 Bolt Lock

Preliminary testing of the bolt lock design on the Bolt Action line has been completed with favorable results. However, ~~there~~ *Production estimates are being reviewed.* ~~cost problem and this may mean a redesign to reduce cost~~

Model 1 700 Fire Control

Problems have been found with the *First new* ~~original (No. 1)~~ design fire control which allow the firing pin to fall when the bolt handle is ~~closed~~. *The design is being reviewed.*

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

Dynamic Project

Fifteen guns are now being assembled ~~to ship scheduled for~~ 30th.

A problem of delayed firing has been found when setting up than one gun to fire simultaneously. The guns will not be ~~leased~~ 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 ~~evaluation~~ of the problem.

-2-

Model 870 Competition Trap Shotgun

Strain gauge testing has indicated, a buffered piston will reduce the stress on the vent rib of this model to a level approximately equal to that on the Model 1100 shotgun vent rib. <sup>Substantially</sup> Dry cycle testing of several Competition Trap barrels and buffered pistons has given satisfactory results. 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 <sup>completing</sup> assembling 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. A vendor has been contacted on forming the part. <sup>to increase the</sup> Improvements in the off safe force <sup>development</sup> are being worked on. Parts are expected to be ready for testing by the end of July.

PROCESS DEVELOPMENTFour 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. ~~This will also require some additional attachments for the four slide machine.~~

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 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 <sup>Schenck Co</sup> ~~under way~~ so that the system can be <sup>filled</sup> ~~started up~~ and filled 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 per unit. ~~An order for samples is being prepared.~~

*for quantities of 1000 units,  
8.25/unit for 2000  
8.08/unit for 4000*