MONTHLY PROGRESS REPORT - June 1980

6-19-80 JWBrooks:T

BOLT ACTION CARBINE

powder metal latches for the floor plate deal. They will be function tested with one gun continuing on for endurance testing.

Accuracy testing on prototype models in all calibers gave averages below 2.7 inches for three 5-shot groups.

Seventeen (17) rifles in 7mm-08 caliber have been assembled, tested, and have been sent to personnel designated by Marketing for field testing along with 7mm 80

A model with a M700 contour barrel has been prepared and shown to Marketing. They have requested that this contour be used on the final design.

Preliminary cost estimates have been discussed with Marketing.

They have requested Research to look at alternate designs to reduce out bling reviewed costs if possible. Eleven items have been discussed with Process Engineering and Industrial Engineering.

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MODEL 870 COMPETITION TRAP SHOTGUN — (need orening statement—See)

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Model 96 Sign modification testing is continuing on the location statement—

and vent 14th on this model.

Two standard locking blocks that were barrel shotpeened and two of a new design with increased cross sectional area below the locking notch have been endurance tested to 25,000 rounds without any cracks. Testing has started on a standard locking block that has directed shotpeening in the notch area. It has 10,000 rounds on it to date. Further testing is scheduled.

the bore diameter from an overbore to the standard bore did not reduce the problem. Investigation of the brazing process indicates good production manufacturing control.

Thitiel strain gauge tracking of the vent rib during shooting has been started. Competition Trap barrels with the present piston recoil system have been compared with the Model 1100 barrel and its recoil system. Initial results indicate over twice as higher stress on the Competition Trap vent rib as on the Model 1100 vent rib when the recoil system returns to battery.

A piston with a buffer will be tested to see how much the stress level will be reduced on the Competition Trap barrel.

Two systems are being evaluated to retain the barrel in the receiver. One system uses the standard Model 870 magazine cap and guide ring fastened to the barrel ahead of the gas cylinder. This system works satisfactorily. The second system uses a positive locking detent system mounted on the barrel retaining sleeve. A model of this system, has been satisfactorily tested for 500 rounds

Prints of both systems have been furnished to Process Engineering for their evaluation and cost review.

Model 870 Competition Trap Shotgun Continued

Work is being done on dry cycle equipment to simulate the stress level encountered when the piston returns to battery. Endurance testing with this device will increase cycle time reducing overall testing time number and remaining the amount of live rounds required.