

TO: RICHARD JACKSON
FROM: MICHAEL KEENEY

Date: 08/27/93

TOPIC: AUGUST 1993 PROGRESS REPORT

o PROCESS DEVELOPMENT/RESEARCH OF NBAR:

Seven receiver blanks were shipped to ELMASS on 08/20/93. Elmass will produce the bolt lug clearance slots. An evaluation report and the machined samples are expected by 09/30/93.

A comparison of the M/700 and the proposed NBAR firing pin assemblies have shown the NBAR assembly to be 68% lighter than the current M/700 assembly. As a result, there is a 50% reduction in lock time as compared to the M/700, while maintaining a comparable bolt lift force over the shorter 67 deg. rotation.

In the past there have been evaluations of a cantilever centerfire extractor that will function within the bolt shroud. The previous testing has been very positive. This style of an extractor is under consideration for use in the NBAR. The Tool Room is currently machining a sample lot for further evaluation.

The research and marketing departments are currently utilizing an industrial design consulting firm to develop proposals for the external cosmetic features. Various two dimensional paintings and one three dimensional model of a synthetic stock have been produced. The results of which have been very intriguing. Due to the success of the encounter, the three dimensional model will be fitted with an actual receiver/barrel (RECBAR) assembly and become a focus panel model. After further development, a wood model will be produced and included in the focus panel.

o XP-100 WOOD STOCK:

Due to the higher trigger pull force specifications for the Hunter version, a secondary trigger spring is required. The initial sample of 200 pcs. is due by 09/17/93.

The Silhouette offering does not require the additional trigger spring. Therefore, the trial and pilot testing will proceed.

Bishop, the stock vendor, has begun to process the second order for XP-100 stocks. To insure proper inletting, John Mroz and myself visited Bishop. The visit proved to be very beneficial for Bishop as well as us. The current setup does meet all inletting requirements.

o M/7400 M.I.M OPERATING HANDLE/BOLT CARRIER ASSEMBLY:

Five M.I.M. operating handles were submitted for endurance testing. Typical endurance testing for a M/7400 is 2000 rounds. Of the five, two failed at approximately 1000 rounds. The failure appears to be due to an insufficient corner radius. Frank Ogrodnik will have the tool altered and process another sample for testing.