

To: T. C. Douglas

September 28, 1992

From: J. M. Edwards *JME*

Subject: Progress Report, September

12 Ga. PREMIER SLUG:

Work on this project has been done assisting V. S. Scarlate.

Plans are being made of load this product on the simplex loader. The necessary change-over parts have been designed and work orders submitted to the shop for construction.

The striving for improvement in accuracy is continuing with the sabot receiving the attention. Measurements of the petals and concentricity have revealed the greater differences than expected but to date have not been able to correlate this data to accuracy.

6.5mm x 55mm SWEDISH MAUSER:

The gages have been designed and awaiting approval of the Plant Order Request before placing the order. The experimental tooling has been designed and ordered with an expected delivery date of Thanksgiving.

PLANT SUPPORT:

CF MISFIRE - Earlier this year while investigating the rise in the misfire rate of heavy rifle, it was discovered that many misfires being returned through customer service measured short head-to-shoulder. The cause was a combination of an incorrect shoulder angle and an over annealed shell mouth. The solution was to redesign the taper dies to correct the shoulder angle and to respecify the mouth anneal to prevent softening the shoulder area. The 30-06, 25-06, 270, 280, and 243 have been corrected. This will resolve about 90% of the misfires due to this "crush-up" condition. There are 25 rimless rifle calibers and 14 gave misfires in 1991 and 25-06, 270, and 30-06 were the worst offenders. Experimental tooling is on hand for the remaining 14 calibers and are being evaluated as production schedules permit.

TWO DRAW SHELL PROCESS - Production has requested assistance in establishing a two draw process for the .223 line. The die stacks have been designed and awaiting a trial run for evaluation.