

To: R.A. Jackson  
From: W.A. Warren, Jr. *WAW*  
Subject: Progress Report 10-29-93

M700 Varmint Synthetic Stainless Steel (VS SF)

This package is 95% complete. It will be submitted for transmittal early the week of 11-1-93. The barrel will be fluted by CNC machining.

M700 Specials: VS, VS Sendero and BDL with fluted barrels

These three currently-unique products will be made as a limited run for a large jobber. The VS barrel is now being detailed. The complete package is expected to be ready for transmittal late the week of 11-8-93.

AutoCad was used extensively to develop and refine the flute geometry. These rifles are being documented as "Engineered" back-order-specials; with new drawings and part numbers for unique components/assemblies. Both VS's will have 26" barrels. Fluting on the BDL version will be revised (from the original sample) to provide a more uniform appearance after the barrel polishing operation.

Measurement Apparatus for Release Mechanisms

There was no change from last month. Priority was given to work necessary to provide dimensions for the fluted barrel samples (above) in time for the Engineering use of the Monarch Machining center.

Following completion of the M700 Special Products, this will be my top priority.

NBAR Fire Control

Effective 10-12-93, another engineer has been assigned primary responsibility to develop the design.

I assisted with this transition by presenting an overview of my research to date and the information/knowledge resources utilized; patents, patent analyses, books, magazine articles and surveys. Additional work was summarized in the form of prioritized listings of concepts, features and performance criteria for the new design. This listing was developed from the points of view of the Customer, Marketing, Production, Product Engineering and Legal considerations. The purpose is to provide a framework with which to identify and reconcile the various expectations.

Miscellaneous

A small sample has been received of a proposed revision to the M700 (long) investment cast magazine follower. This change is intended to reduce the amount of labor-intensive hand polishing required. This is also a carry-over in the transition to a new vendor. Future work: testing of larger sample and drawing changes.

I helped a new engineer to better understand our Process Capability Quality requirements as they apply to the specifications and run-off of a new machine.

END