

To: Richard Jackson
From: David Findlay
Subject: Progress Report (11-29-93)

M/870 - M/1187 12/20 Ga. Cantilever Scope Mount Redesign

Due to the impending bankruptcy of our perform extrusion vendor, the cantilever material was changed from 4140 steel to 6061T6 aluminum. Five aluminum design acceptance samples were turned over to the Test Lab November 15. Design acceptance testing (strength, accuracy, and endurance testing) is currently ongoing. Forty additional aluminum cantilevers have been received from CMCI and have been turned over to M. Golemboski for processing and color.

M/870 - M/11-87 Synthetic Stock and Fore End

The drawing package has been turned over to the CAD group for transmittal and parts list changes. Remington design and process engineers reviewed the mold drawings with Three River Tool on November 16 and approved the initial design concepts for the molds. Steel for these molds is currently on order.

M/870 Synthetic Trigger Plate

Sample parts in four different materials were received from Dave Foss on October 25. These components will be now undergo evaluation and measurements. Testing will include live firing endurance, dry cycle, impact, and environmental.

M/522 Viper Improvements

Research is investigating the possibility of reducing the trigger pull. Approaches being investigated include surface coatings, a new primary sear design, firing pin spring modification, and a re-designed disconnecter.

Samples of a synthetic magazine box in two materials were received November 16 and ten samples of each have been turned over to the Test Lab for endurance evaluation.

M/541 Improvements

Work has been initiated to incorporate several design improvements based on customer requests and complaints. The first of these is a metal magazine box. Testing of a sample MIM metal magazine box had a 0% malfunction rate through 2000+ rounds. Five additional samples were built and turned over to the Test Lab for evaluation. A second improvement is the utilization of two takedown screws rather than the current single screw design to enhance the bedding of the rifle. A change to the barrel attachment design is being considered.

cc. R. Orf