April 2, 1993

TO: K.W. Soucy
FROM: W.A. Warren, Jr.

PROGRESS REPORT March, 1993

M700 VS Long Action "Sendero Special"

On 3-24, we approved production samples from the vendor's first two stock molds. It appears that he has corrected the conditions observed on the previously-submitted samples from mold #1. These four sample stocks, however, display a condition not observed on previous samples:

o the left fore-end rail is very close the the barrel rollmark.

To the degree observed, it is not a cause for rejection. It does mean that there is no additional margin to accommodate any other influences tending to cover the barrel rollmark. A sample has been returned to vendor for his review.

Mr. Houghton, president of of H-S Precision, indicated to me on 3-24-93, that he has been making production quantities of these stocks (before we approved samples).

We received samples from mold #3 on 3-26-93; we expect samples from mold #4 late the week of 3-29. The interval between samples from successive molds is closer to 1 1/2 weeks than the 2-3 days previously indicated by the vendor.

BASIC RESEARCH-RELEASE MECHANISMS

Measurement Apparatus: This project was approved on site during the week of March 15. It has been sent to Pittsburgh.

Benchmarking: competitive purchases-no change

NBAR: Effective 3-1-93, my release mechanism activity has become focused on developing a new fire control for this model.

I have reviewed the indices of the AFTE (Association of Firearms and Tool Examinsrs) Journal going back to the organization's beginning in 1969. Several Remington-specific and general interest articles were found.

DESIGN-RELATED

On an ongoing basis, I am assisting M. Keeney with his NBAR process-design integration program.

The Customer Repair computer run "Top 10 faults by model" was reviewed for the Model 700 rifle. The two most frequent faults are "stock cracked" and "return for update." The balance of the top ten items appear to have more to do with gun abuse than with design. A more comprehensive "Top 50" has been requested for the M700 only.

SAFETY

R&D safety committee and site audit: 10 hours.

MISC

I have reviewed my previous process engineering files to prepare for probable document production, in April, on the common fire control.

Fred Supry and I sorted the contents of the R&D library prior to it being moved back upstairs. Much obsolete information was discarded; some reference books predated WWII.

I completed the 15-week on-site course, "Metallurgy for the non Metallurgist."

END