[redacted]

R. B. HURLEY
J. S. MARTIN
J.W. BROOKS

DON'T SAY IT—WRITE IT

To K.L. SASSONE K.W. SOUCY

Date July 20, 1978

From C. B. WORKMAN

RESEARCH PROGRESS REPORT

Information for the subject report should be in my office by July 24, 1978 for submission to E.F. Barrett.

Ilion Research Division portion of last month's report is attached for information.

[redacted]

[redacted]

Bench Rest Bullets

Approximately 68,000, 6mm bench rest bullets have been shipped to the warehouse.

The cost reduction program on the 6mm bullet job is continuing. The second machine draw operation has been automated and resulted in reducing the direct labor by one. An estimated savings of approximately $1300/month is expected to be realized.

[redacted]

[redacted]

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R2506818

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KINZER V. REMINGTON

[redacted]

Model 870 Competition Trap

Several parts have been changed to move the center of gravity away from the muzzle as requested by Marketing. These include an aluminum magazine cap, a shorter fore-end retaining nut, a shorter fore-end tube and thinner vent rib posts. Tests are to be run to determine what effect a slightly lighter piston will have on recoil.

Model 1100 - M/870 Target Trigger

Two prototypes for the M/870 have been completed, and two for the M/1100 will be completed by the end of June. They will then be put in test in the Test Lab. A patent search has been initiated.

Model 700 - 7mm-06 Rem. Caliber

Transmittal of drawings to the Plant has been completed per Operations Committee approval of June 13, 1978.

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Mechanical Trap

Operations Committee approval of the hand cocked trap was received on June 13, 1978. Transmittal of drawings should be complete by the end of June. The manual should be complete by August.

Model 600 Carbine

Marketing is setting up a focus panel to evaluate various designs.

Model 541 - 22 Hornet

A single-shot model was assembled and proofed. Because of assembly problems headspace was .073". SAAMI recommends .065" to .072". The headspace did not change during proofing. After 18 rounds a head separation was experienced. Headspace was still .073".

A new bolt was fitted, giving a headspace of .066". After two proof rounds it was .076". Test firing was commenced with hard bolt lift being experienced. After the 80th round the bolt had to be pried open. In checking the rifle a fire control stud was broken. This is being repaired so that further testing can be done. Because it is felt that receiver stretch is causing the tight bolt lift problem, a new receiver is being made with approximately 20% more material in the ejection port and magazine port area. This should be ready for assembly within two weeks.

The basic premise for this program was add using the M/541 for this cartridge. It now appears the magnitude of the product design changes will make the cost prohibitive. This program will be re-evaluated in July when high-spot costs will be available from the plant. If, as we suspect, the cartridge is not economically adaptable to the M/541 we will consider the M/788 providing Marketing believes there is sufficient incentive for an additional chambering in this gun.

Model 700 Fire Control

A fire control with a new sear safety cam assembly and trigger to eliminate the connector, and with fixed engagement and

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fixed overtravel, was assembled. Slight alterations were required. Parts are being made and will be ready for assembly and test the first week in July.

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