



REMINGTON ARMS COMPANY, Inc.

MAY 27, 1992

TO: T. C. DOUGLAS
FROM: E. I. HERRING, III *E I H*
SUBJECT: MONTHLY REPORT - MAY, 1992

- o The SAAMI Centerfire Rifle Round Robin test for May has been completed, and the test results forwarded to the SAAMI office for summarization.
- o SAAMI technical data on the 35 Whelen, 6mm BR Rem, and 7mm BR Rem cartridges was compiled and sent to Bud Zumsteg for transmittal to the CIP Proof House in Munich.
- o An instruction letter has been issued for the 40 S&W 180 JHP Proof Load. No problems were encountered with the nickel-plated shells.
- o Biodegradable wad status:
 - Bio Wads - Still no evidence of degradation after ten months exposure.
 - Mortile TVL-50 - Samples continue to develop stress cracks and will fracture easily when mashed. Control sample indoors - no change.
- o The visual appearance of the zinc chromate plated #TT steel shot purchased from Daisy Manufacturing is very good. The hardness of the shot on the Rockwell R15T scale was 66.5. Maximum average hardness specification is 69 on the R15T scale.
- o Representatives from Kaltron-Pettibone visited the plant on 5/26/92 to discuss future purchases of Kemira powder from Finland. Kemira has proposed storing their powders in Lonoke's powder bunkers on a consignment basis rather than storing them in Camden, Arkansas, and allowing Remington to withdraw powders from their stock as we need it. This would provide real just-in-time delivery and would eliminate our having to pay taxes on powders which are the property of Kemira. As stated previously, we have had good success with Kemira powders, and would use more of them if a reliable line of supply could be established. This new proposal may be the answer.
- o A new lot of SAAMI reference ammunition for the SP410-9 skeet load has been established and announced to the industry.
- o Reviewed the SAAMI/ANSI shotshell standard and sent corrections back to the SAAMI office. This revised standard will go out for canvass on May 29.

T. C. Douglas
May Monthly Report
May 27, 1992

o The sample of Olin WC-295-S was evaluated in the 357 Magnum 158 Lead SWC cartridge with good results. A velocity of 1538 ft/s with a pressure of 29000 psi was recorded. The specification for this load is 1545 ft/s velocity, with a maximum average pressure of 35000 psi. This salt-coated powder reduced the muzzle flash by a considerable amount.

o Translated and reviewed the test results on Remington ammunition rejected by the Munich Proof House. CIP has a "high performance" or magnum pressure specification which they apply only to magnum shotshells. They apparently do not realize that all shotshell ammunition made in the United States is loaded to the magnum or "high performance" pressure level. Test results were recalculated using the proper specifications for resubmission to the Proof House.

o In order to obtain a more accurate measurement of the relative burning rate of centerfire rifle propellant powders, we are in the process of evaluating all of these powders at a constant charge weight of 30.0 grains in the 30-30 Win cartridge. This method provides data which more closely approximates the actual conditions that prevail whenever propellants are consumed in a gun-cartridge system. The traditional closed bomb system currently used by the powder industry has a fixed volume, and does not accurately simulate the conditions of a constantly expanding volume of the power gases found in a firearm. The test firing has been completed and the data is being tabulated.