



REMINGTON ARMS COMPANY, INC.
LONOKE, ARKANSAS

NOVEMBER 25, 1992

TO: T. C. DOUGLAS
FROM: E. I. HERRING *EIH*
SUBJECT: MONTHLY REPORT - NOVEMBER, 1992

- o The November SAAMI Centerfire Rifle Round Robin test has been fired, and the test results sent to the SAAMI office.
- o New lots of SAAMI Reference Ammunition have been made for the 45 Auto, 280 Remington, and 8 ga. Industrial loads.
- o Norinco Powders (China) - Two samples of Norinco NM-04 powder have been received for evaluation in the GL12 promotional shotshells.
- o Representatives from EXPRO Powder Company visited the plant to review the performance of their powders. It was noted that in the last six months, they have improved on their deliveries and the ballistic quality of their powders has also improved. A request was made for EXPRO to make a lot of 8188 powder for the SP410 shotshell. This powder was used in this shell for over 20 years with excellent results before EXPRO lost the ability to make it.
- o Travel - Attended the SAAMI Pressure Measurements Sub-Committee meeting in St. Petersburg, Florida, on November 17. At this meeting, we discussed new transducer calibration procedures, steel shot pattern performance specs, reference ammo test schedules, pressure measuring techniques, and CIP activities.
- o ICI Nobel Powders - Gordon Taylor from Nobel visited the plant on November 18 to discuss future powder orders. They have had 22,000 pounds of Nobel Rifle O powder ready to ship since September, and are still waiting for Du Pont to obtain an import license for Remington. Gordon informed us that their single-base rifle powder plant at Powfoot will be closed at the end of March, 1993, and that all commercial and military powders will be made at the Ardeer site. They are also considering having another powder manufacturer make their single-base rifle powders.

Nobel is working on a steel shot powder, and will submit a sample with the next powder shipment.

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o Vihtavuori Powders (Kemira-Finland) - A total of twenty-two powder samples has been shipped to Lonoke for evaluation. Included is a sample of N-170 magnum rifle powder. Bob Townsell and Vince Tunzi from Kaltron-Pettibone will visit the Lonoke plant to review our test results on December 15.

o 7x64 Brenneke - The piezo transducer, calibration adapter and three test barrels have been received.

o New Concept Shotgun/Steel Shotshells - Load Development - Steel shot loads have been loaded to the maximum SAAMI proof load pressure of 20000 psi using 1 1/4 oz. of #BB steel shot. At this pressure level, we obtained a velocity of 1671 ft/s, which is considerably short of the 2000 ft/s needed to give the same down-range energy as the equivalent size lead shot. These shells were fired in a Remington Model 11-87 shotgun with no shell casualties observed.