



REMINGTON ARMS COMPANY, Inc.

LONOKE, ARKANSAS

OCTOBER 22, 1992

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

- o The September SAAMI Shotshell and Rimfire Round Robin tests have been completed and the results forwarded to the SAAMI office.
- o 223 Rem 40 HP - Federal product was evaluated and shot 1.6" extreme spread for 3/5 shot groups at 200 yards. The experimental Remington product shot 1.7" E.S. at 200 yards. Both use the Sierra 40 HP bullet and should be equivalent in performance.
- o Representatives from Olin Powder Operations visited the plant to review orders and the performance of their propellants in our products. reviewed the test results on the WMG-585 steel shot powder. Additional samples will be submitted for our evaluation.
- o 7x54 Brenneke - Transducer, calibration adapter, and universal receiver test barrels have been ordered.
- o 6.5x55 Swedish Mauser - Some confusion exists over the cartridge and chamber drawings for the 6.5x55 Swedish Mauser cartridge. Gene O'Rourke at PCB Piezotronics called after receiving our order for a transducer and calibration adapter, and asked which chamber we wanted in the adapter, SAAMI or Federal. He indicated that Federal had submitted a drawing that deviated from the SAAMI drawing. He faxed copies of both drawings, and they showed that Federal is using the CIP drawing. I contacted Gary Svendsen at Federal, and he verified that they are following the CIP drawing, and will recommend the SAAMI drawing be changed to the CIP drawing at the SAAMI Technical Committee meeting in January. IVI in Canada (now defunct) originally submitted the 6.5x55 drawing to SAAMI, and for some reason made changes to the CIP drawing. Since the cartridge had its origin in Europe, many of us feel the CIP drawing should be considered the "official" version. Test barrels, calibration adapters, and inspection gauges are being ordered using CIP drawings.
- o Sabot Slugs - Thirty inch universal receiver rifled slug barrels for both 12 and 20 gauge have been ordered. The 12 gauge barrel will have a 3 inch chamber - the 20 gauge will have a 2 3/4 inch chamber.

T. C. Douglas  
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o SCOT 453/LOVEX - A sample of this shotshell powder was submitted for our evaluation in the GL12 promotional shotshell. This is an extremely fine-grain ball powder which could possible give charging problems on our loading machines. The ballistics performance of this powder also does not meet our requirements due to low pressure at both Room Temperature and at -20 F.

o Lee Brown at United States Products Company (Gold Medallion) has submitted a sample Pressure (Fire) Lapping Kit for lapping rifle barrels. This procedure embeds abrasive grit into a bullet which is then fired through the barrel to lap it. They claim improved accuracy. Testing will be performed on a 30 caliber universal receiver barrel.

o The October SAAMI Centerfire Pistol & Revolver Round Robin tests have been completed and the results sent to the SAAMI office.

o Brazilian Powder - Samples of three CBC centerfire rifle powder have been received for evaluation. One of the samples CBC-103 has a relative quickness similar to IMR 7816. In the 7mm Rem Mag 150 PSPCL cartridge, the following ballistic results were obtained:

<u>Powder</u>	<u>Chg.Wt.</u>	<u>RT</u>		<u>-20 F</u>		<u>+150 F</u>	
		<u>Vel.</u>	<u>Press.</u>	<u>Vel.</u>	<u>Press.</u>	<u>Vel.</u>	<u>Press.</u>
IMR 7816	68.0 gr	3101	60800	3003	57500	3172	64500
CBC-103	68.0 gr	3019	60500	2971	58500	3104	64900

The other two CBC powder samples were faster rifle powders, for which we have no immediate requirements.

On October 22, Darcy Ferreira from CBC, and Dan Flaherty from MagTech visited the plant to review the test results on the powder samples. Initial results look very good. CBC has a current propellant capacity of 20 tons/month/shift, but expect to double this soon. They are currently exporting powder to Europe. Charles Helle, the CBC Director of Research, designed the powder process and plant, and has a world-wide patent on it. As described, the plant is very efficient, employing only ten people! It is highly computerized, and air conveying is used between all operations. Their process is simple, flexible, and very unique! CBC is unable to quote prices at this time, but will in the near future.