

REMINGTON ARMS COMPANY, INC.  
LONOKE, ARKANSAS 72086

To: T. C. Douglas

April 30, 1993

From: F. G. Lopata *James Lopata*

SUBJECT: APRIL PROGRESS REPORT

R&D LABORATORY:

Pre-startup safety reviews were done for the friction, impact, and electrostatic discharge instruments. We also held our first process safety management R&D Lab Team meeting to start the process hazards analysis of the lab.

Type II magazines should be delivered 4/30, so that we can try again to get ATF approval for storage of larger quantities of explosives.

LEAD-FREE PRIMERS:

We are continuing to develop analysis methods and improve our techniques on our instruments.

PLANT SUPPORT:

Participation is continuing as a member of the Explosives Committee primer area team and in the Process Safety Management team.

CURRENT PRIMER

Examination of one batch of TNR and its subsequent lead styphnate is completed. Data analysis and conclusions are in process.

Rimfire samples from Eley Tenex, CCI Blazer, Remington 1992 lead nitrate mix, pre-'83 (Bridgeport) mix and current production were cut down. The mix in the head area was photographed. Thermal analysis and infra red spectrum were run on each. The photos were circulated but the other data are still being analyzed and conclusions formed. (The Eley Tenex is formed in place, not spun in as are the other samples. They also use red dye instead of blue.)

Samples of 209 primers were received on 4/30 but have not been examined.

In support of the plant we have done 40 dispersive infra red scans, 60 Fourier Transform infra red scans and 26 differential scanning calorimeter thermal analysis runs. We have also done 150 CCTV prints/photographs.