Minute #10 - 1979

PRODUCT SAFETY SUBCOMMITTEE MEETING

JUNE 21, 1979

Present:

Subcommittee	Others
E. F. Barrett, Chairman	W. G. Bell
B. K. Daubenspeck, Secretary	W. L. Flaherty
E. Hooton, Jr.	W. D. Nickel
E. G. Larson	J. E. Preiser
R. A. Partnoy	L. L. Presnell
	T. W. Rawson
	R. B. Sperling

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30-06 HIGH PRESSURE LOADS

The Manager of Quality - Firearms and Targets - reported the results of a statistical analysis on PCB pressure readings of 24 rounds of the suspect code K21D. The analysis shows that on a statistical basis 3 of 1,000 rounds in the lot would be expected to show pressures greater than 102,000 psi, 5 of 1,000 greater than 97,500 psi (maximum proof pressure) and 30% greater than 75,500 psi (minimum proof pressure). We would expect no rounds to show pressures in excess of 110,000 psi.

Ilion has completed tests on 30-06 ammunition loaded to an average pressure of 98,000 psi fired in 16 competitive rifles. A summary of the results is shown in Exhibit A attached. Although some of the guns were damaged, none of the tests indicated that a shooter would have sustained a serious personal injury. In view of the statistical analysis, the special test ammunition represents the upper pressure limit region of the suspect K21D code.