cc: S.N. Alvis D.E. Miller R.A. Williamson H.J. Hackman V.G. DeReus R.B. Burley H.L. Hameister E.W. Hailston

Ilion, New York February 12, 1957

W. A. BEST

PILOT LINE TESTING OF THE MODEL 552 AND COMPARISON TEST OF THE MODEL 550

Endurance testing of the N/552 and comparison of the N/550, which was started 1/29/57, is now complete as of 2/8/57. The N/552 was fired 25,000 rounds using all makes of amountion. Amountain was rated percentage-wise with this year's sales forecast on amountion to the following order: in the following order:

Long rifle high speed Short high speed Long rifle standard velocity

The M/550 was discontinued in test due to poor performance. Two models were selected as the average of three guns in their respective test. With exception of 3,000 rds., all guns were fired in the field. Each gun was cleaned at every 1,000 rds.. Keasurements were taken periodically.

The resu	lts ere	as follows:	
		: Salfunctions	
*		M/552 - 25,000 rds.	M/550 - 4,100 rds.
Firing		23 -	.2
Extraction Blow back Ejection		4	16 05
		130	95 46
Feed from Mag. Stem chamber		22 25	25
Looking up		17	106 106
		221	202
	Rate	.88%	7.1%

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