

February 4, 1957

Assuming that the above M/552 had over 1,000 rds. fired, including gallery test, question arose that this amount of firing would help to break in these guns. Therefore, the above picture might be erroneous. Ten more M/552s were secured from warehouse and the above test repeated, with these results showing a reduced rate.

<u>Gun No.</u>	<u>Blow Back</u>	<u>Stem chambers</u>	<u>Rate</u>
1			0%
2	1	2	0%
3			0%
4			0%
5	2		4%
6	3		0%
7	4		0%
8	1		0%
9	3		0%
10			0%
Overall rate		3.25	

Conclusions

To date the M/552 appears to be a better performing gun than the M/550. The high rate of performance of the M/550 is alarming, particularly if this quality of guns is reaching the field. The M/552 will not adequately handle the standard shorts and is questionable on high speed shorts in cold weather. The firing pin breakage is being investigated. It is recommended that the failure to extract in unloading live ammunition be investigated.

Further endurance testing will continue and an accuracy test will follow.

CJT:T

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