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Elion, New York
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TO: J. H. HENNINGS *JH*FROM: J. BAGGETTA *JG* ←SUBJECT: M/700 BROACHED RECEIVERS vs NONBROACHED RECEIVERS
-----INTRODUCTION:

The Research Test Lab was requested by Process Engineering to evaluate twenty (20) M/700 rifles for functional performance. Fifteen (15) of the rifles had broached receivers and were comprised of ten (10) 223 cal. and five (5) 243 cal. (Control Group). The remaining five (5) rifles had no broaching operation performed on them and they were comprised of 243 cal. only.

TEST OBJECTIVE:

To determine if the broaching process performed on the receivers affect or eliminates the high volume of empty shell catches receiver malfunctions experienced in the plant gallery.

TEST OBSERVATION:

At the completion of live fire function testing only one (1) malfunction was experienced on a control rifle (nonbroached receivers). The malfunction was a fail to extract. The broached receivers did not experience any functional problems during live fire testing.

TEST RESULTS:

Individual gun results: Jack shooting - 400 total rounds.

MODEL 700 223 cal. BROACHED RECEIVERS

<u>GUN NO.</u>	<u>RDS. FIRED</u>	<u>MALF. RATE</u>
1. B6270692	20	0 %
2. B6270704	20	0 %
3. B6270723	20	0 %
4. B6270689	20	0 %
5. B6270717	20	0 %
6. B6270711	20	0 %
7. B6270638	20	0 %
8. B6270691	20	0 %
9. B6270692	20	0 %
10. B6270715	20	0 %