

February 7, 1957

There were two changes that took place in this test which we believe affected the difference in the final results:

1. The weather conditions at time of the new design test registered -20°, and with the present design -20°, or a variance of 40°.
2. The barrels on the present design had a chamber ream operation completed on the job, whereas the new design barrels had the operation done by a hand tool, which might account for the many stem chambers encountered in the latter.

One important factor to point out is that only four failures to eject occurred in the 5,000 rounds fired, which is a good indication that cutting the top rail of the ejector is not a necessity.

CONCLUSIONS

On a comparison basis, this test is inadequate, and should be rerun shooting smaller samples and changing components immediately. Also, weather conditions should be equal in both cases.

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