ec: H.J. Hackman J.B. Maupin

Ilion, New York February 23, 1955

TOI

G. M. CALHOUN

FROM:

S. K. ALVIS

SUBJECT:

MODEL 722 - CALIBER 222 - ACCURACY

To the contract of the second

In accordance with our recent discussion on this problem the Plant has since made more extensive checks of rifles on hand and which I believe gives a better "average" picture of the situation. We would like to go over this with you further on your forthcoming visit to Ilion and in the meantime the following is somewhat of a summary of the situation.

The present variations in twist indicate poorer accuracy with hand loads and Sierre bullets than with our standard assumition. With factory assumition there were some rifles which fired very good groups; i.e. about 1". However, there are also a number of rifles which fired groups in excess of our specification limits. The Plant "master" rifle fired averages rather close to the specification limits (believe in the range of approximately 1.93") indicating that the accuracy problem is apparently being aggravated by the inherent accuracy of our assumition. In this same master rifle assumition which had been hand loaded with Sierra bullets there were good groups of 1" or better.

The entire problem is somewhat confusing; i.e. as related between the assumition and the rifle, but there appears to be no doubt about it that we are not insa favorable position for the type of performance expected for this rifle.

Various recommendations and suggestions have been made by M.H. Walker who has been working with the Flant on the problem but has indicated the above job does not appear to be very simple.

SMAIT

S. M. Alvis, Manager Arms Research & Development Division