

cc: H.J. Hackman  
W.E. Leek - M.H. Walker  
W.A. Best  
C.F. McCubbin

MEMORANDUM OF TELEPHONE CONVERSATION

C. F. McCubbin  
and  
S. M. Alvis

SUBJECT: MODEL 40-X

In telephone conversation today with Mr. McCubbin he advised of comments by Mr. A. L. Freeland pertaining to design and quality of our M/37 Rifle. Mr. Freeland pointed out that if we are working on any improved designs for a target rifle he would suggest that we seriously consider the "head space on the Johnson barrel to get as close to the lands as possible". He also pointed out that on a number of the M/37's which he has been receiving the lands are "too tight", necessitating additional lapping of the barrels and in each case after this was done better groups resulted.

After checking with M.H. Walker it is understood that our chamber design for the M/40-X is in accordance with development work by Jack O'Connor in Bridgeport. Also, it seems that the relationship of the end of the bullet when seated in the chamber with respect to the lands is approximately the same as the present M/37. It is believed that he (Mr. O'Connor) is aware of this difference in the Johnson barrel.

Regarding Mr. Freeland's experience in lapping M/37 barrels, we are passing this on to H.J. Hackman since there still seems to be some question regarding necessity or adequacy of lapping.

  
S. M. Alvis

Arms Research & Development Division

SMA:T  
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