REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

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PETERS

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY"_____

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Ilion, New York June 13, 1966

MEMORANDUM

Tos

C. B. Workman

From

A. A. Hugick G.G. 7√

DROP TESTING OF MODEL 700 POWDER METAL SEARS

The enclosed drop test procedure was organized and conducted using My powder metal sears. Two samples of My700 sears were submitted for dructesting at this time.

Sample No. 1 consisted of M/700 chrome plated powder netal sears with approximately .003" radius when received from Production and had been cock-and-fire dry cycled for 30,000 cycles each. No malfanctions of the sear were encountered during drop testing of sample No. 1 sears.

Sample No. 2 consisted of M/700 chrome plated powder metal sear with approximately .0005-.001" radius at the connecter edge, increased density, and zero dry cycles. No malfunctions of the sear were experienced during drop test of the M/700. This sample of sears had tight pin heles and had to be polished out for testing.

The fire control adjustment was made by Production prior to the dry sysle and drop testing. Hardness measurements on the RC scale varied from 38.5 RC to 54.5 RC. This variation of measured RC hardness should be clarified.

Recommendat Least

Based on test results of submitted test samples, the throne plated powder metal sears should be considered for use in the M/7006 If the hardness difference is considered significant, some of the latest, softer sears should be dry cycletfor wear on the sear connector edge.

Enc. AAH:c