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Ilion, New York  
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MEMORANDUM

TO: C. B. Workman

FROM: A. A. Hugick - W. K. Curry

Model 700 CHROMED POWDER METAL SEARS

Six M/700 rifles with powder metal sears were cock-and-fire dry cycled 30,000 cycles each in the Measurement Lab dry cycle machine for the purpose of establishing M/700 firing pin dry cycle life. The included test sears had a radius of approximately .003" on the connector surface edge when received from production. The average sear component weight was measured as 9.1021 grams. The average measured RC hardness was approximately 50 RC. All dry cycle testing was conducted with the sear well lubricated.

Enclosed is a photograph which best illustrates the lack of sear wear at the connector and cocking cam surfaces of the M/700 sear.

AAH:MC:6  
Enc.