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Ilion, New York
May 18, 1949

TO: S. M. Alvis, W. A. Best, L. J. Boyle, E. R. Carr, K. R. Chadwick, P. B. Eccleston, S. W. Fisher, E. E. Folmsbee, D. S. Foote, H. J. Hackman, E. C. Hitchcock, W. E. Leek, D. E. Miller, J. W. Miller, L. T. Murray, E. Sapp, E. A. Streed, A. Travostino, M. H. Walker, H. A. Williamson

FROM: E. K. Wheat

SUBJECT: CENTER FIRE RIFLE ACCURACY MEETING

PURPOSE:

To report progress and discuss the future program.

CONCLUSIONS:

1. The barrel reaming operation (M/721-722) has been running in control with a tendency toward the low side of specifications.

2. Targeting results on the 300 Savage reflect good accuracy directly attributed to excellent barrel processing by all concerned.

3. The accuracy device is a satisfactory unit to determine group size.

4. The combination of bore spotting for "point of impact" and shooting by the shooters and accuracy device for "group size" will speed up production.

5. The improved results at targeting will eventually allow a sample plan to be used, thus further reducing targeting costs.

6. Barrel "bending" for sighting correction has been effectively eliminated 100%. Barrel straightening is only necessary on .6% of production (10 barrels in 3 weeks). (Swinger rejects are running approximately 5.4% of production.) 6 month average - 20% swinger rejects to .3% of production.

CENTER FIRE RIFLE ACCURACY MEETING May 18, 1949

2. Pilot run (30 guns .001 larger specs. in reem)

80% 5 shot - 4/22/49

Ave. E. S. 1.9"
.77

30-06 Production Summary - (1/13/49) 4" guns

80% 5 shot

Ave. E. S. 2.65"
1.08"

FUTURE PROGRAM

1. Correlation of "Point of Impact" and "Group Size" target requirements.

W. E. Leek - S. W. Fisher - P. H. Eccleston
W. A. Best - E. K. Wheat

2. Bore spotting move to assembly operation.

P. H. Eccleston - R. A. Williamson

3. Bore spotting in Process Record. - E. Sapp

4. Barrel study for other calibers. - E. K. Wheat

5. Rear Sights

1. New steps - D. M. Abbott
2. New Design - M. H. Walker

6. Group Size specifications study. - E. K. Wheat

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Arms Technical Division

EKW/ml