CC: H. J. Hackman Alvist

Walker

M. H. Walker R. B. Hurley

Ilion, New York December 27, 1961

E. Miller

PILOT ASSEMBLY MODEL 700

the assembly of ten (10) Model 700 "ADL" 30-06 Actions in slave Stocks, the following conditions were found. The list does not include the riveted Extractor and possible change to a pinned Safety Button to Fety which are being developed by Besign.

1. Bolt Stop Release difficult to operate.

# Action taken:

- a. New longer Bolt Stop Release.
- Bolt Stop bind in Receiver slot.

#### Action taken:

- New Bolt Stop Spring lengthened to increase tension and reduce side force.
- Follow-down of the Firing Pin.

# Action taken:

- Investigating the Sear and Safety Cam engagement with the Firing Pin Assembly. A grind change may be required.
- b. Investigate the warpage of the tail of the Receiver. pilot lot of stress relieved Receivers are ready for finishing operations to determine if warpage can be reduced. This is being followed by Chem. & Met.
- c. Investigate the Housing hole dimensions in the Receiver and Housing.

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4. In the "ABL" Stock, there was a scering of the first cartridge out of the Magazine.

### Action taken:

- a. Increase the inletting outs in the Stook.
- b. Magazine Follower changed the ears; tests by Process
  Engineering indicated that the revision could cause spring catching. Work was held and the problem referred back to Research.
- e. Smoother finish now specified on Receiver rails.
- 5. The length of the Trigger Adjusting Screw did not permit adequate staking.

### Action taken:

- a. A longer screw is being provided. Tried to use old Samm
- 6. Soft Safety reported by Sales.

#### Action taken:

- a. Chem. & Met. to experimental harden Housings to prevent breakdown of the Safety Detent Ball countersink.
- b. Design is considering increasing the tension of the Safety Detent Spring.
- c. As part of the XC-13 and XP-700 design, the use of a nylon instead of a steel ball is being investigated.
- 7. Accuracy testing required the use of a #7 sight step.

### Action taken:

a. Investigation of the Front Sight height.

H. J./Hackman, Supt. Product Eng. & Control Section

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