

PROCESS RESEARCH

ASEA Manipulator All polishing equipment for M742 and M760 receiver polishing is installed. A new manipulator polishing program will be tested in February 1980. Dust collector ducts will be altered by February 15, 1980.

Testing of the receiver repositioning system, designed to correct misalignment of the receiver with the polishing jack contact wheel, was 10% successful. If 100% success can't be achieved with the current microswitch system and further refinement in the manipulator programming, a higher resolution, digital system based on the linear variable differential transformer (LVDT) might be necessary. An LVDT system was quoted by Schaevitz Engineering at \$3,500.

The part handling conveyor was quoted by A&M Tool at \$24M. Quotes from Techni Products and Sjogren Tool are expected in February. Conveyor fixtures, high precision parts, are being made by the Research N/C group. Conveyor chain, a long delivery item, was purchased and will be delivered February 9, 1980. The cost of these items, approximately \$4M, will be subtracted from the conveyor quotes.

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MONTHLY PROGRESS REPORT - January 1980

1-31-80
JWBrooks:T

NYLON 66

Testing of the bolt lock in a more forward position did not produce fire on closing; however, it did give indents of _____ to _____. Further work will be done, but higher priority projects have caused delay for the present.

MODEL 700 - 7mm Mauser (7x57) Caliber

The test lab report is complete and distributed. It covers the work done on the pressed stock and Trial & Pilot work on the 7x57 Caliber. The stocks are not satisfactory from a Research standpoint for adding to the present product line. The 7x57 Caliber was satisfactory testing.

MODEL 700 VARMINT 7mm-08 Caliber

Accuracy specifications were set at 1.5" for this rifle to correspond with other varmint caliber standards. It was felt by Marketing this caliber would be used for varmint and silhouette shooting. Original shooting indicated this could be met. We have found ammunition specs were set at 1.8 with the factory run testing out at 1.3 max. Trial & Pilot rifles will not give this accuracy. Rifles are now being tested with handloads to verify accuracy. Results are expected this week.

BOLT ACTION CARBINE

A complete parts list and prints of new parts have been furnished to Process Engineering for a cost estimate of this model. ^{five} ~~new~~ prototype ~~models~~ in each caliber requested by Marketing are scheduled for completion ⁱⁿ ~~by~~ February ~~15~~, with testing to follow.

11/200 Sen Safety Com

Potential customer complaints from insufficient chrome
material analyzed from 6/13/78 - 1/31/80

<u>Possible complaint</u>	<u>total #</u>
1) Delayed firing	7
2) Discharges when bolt handle raised	7
3) Discharges without pulling trigger	2
4) Accidental discharge	9
5) Trigger - Safety malfunction	1
6) Misfires	2
	<hr/> 28 Total

A close-up, black and white photograph of a clock face, showing the numbers 10, 11, and 12. The clock is heavily scratched and damaged, with a large black circular mark near the 10 o'clock position.

[illegible]