

April 30th, 1947

MODEL 721-722

Progress Report - Project FD-721
R & M Meeting 5/6/47

Financial Status

1. Authorized		\$ 897,373
2. Expended & Committed 4/20/47		955,647 - 106%
3. Spent 4/20/47		885,898 - 99%
4. Balance Available 4/20/47 (over)		(58,274) - (6%)
5. Funds Unexpended 4/20/47		11,475 - 1%
6. Total Cost Estimate Technical 4/20/47		979,700

The estimated Project overrun remains the same as reported last month, 9%, or \$82,327. Close out orders have been issued on all possible parts of the Project. Special orders will be issued to cover specific items required to complete the trial run and completion of the processing of the 300 Savage, 257, 270 and 300 H & H Magnum calibers.

The Product Cost is as previously reported.

	<u>5/27/46</u>	<u>9/17/46</u>	<u>2/26/47</u>
Material	\$ 4.57	\$ 5.28	\$ 4.89
Standard Labor	<u>2.97</u>	<u>3.07</u>	<u>3.21</u>
Total	\$ 7.54	\$ 8.35	\$ 8.10

Physical Status

Design is considered 99% complete, pending the completion of additional calibers and assistance to Plant.

Testing is considered 80% complete, pending testing of pilot guns. 30-06 pilot guns have gone into test. Plant production guns are being used.

Plant Production problems are reviewed weekly and assignments of personnel from Plant, Technical and R & M are being made to remove the difficulties.

The Plant Chem and Met Unit have detected some cracked Receivers in production. Technical and Plant personnel have been assigned to the problem and will eliminate the trouble.

Results of pilot testing of production guns revealed need for change in some assembly and inspection operations and the need for careful control of the Gear and Safety Cam construction, to assure proper operation of the Safety and Trigger action.

Production difficulty with draw rifling and cuproding is being reviewed by Technical and Plant personnel. The cuproding bath appeared to be contaminated, probably due to the asphalt treated wood lined tank. A lead lining has been provided and a new solution made up.

The inherent accuracy of Barrels reaching assembly is questioned and, although finished guns satisfy specified limited targeting, in accordance with the accuracy standard, an improvement to Barrels seems essential. Pending better results from draw rifling, it may be necessary to lead lap Barrels as is currently being done to center fire rifle Barrels.

Work is being done to revise the Bolt Handle process for improvement in quality and to facilitate brazing.

Product Engineering is considered 98% complete, pending trial run of Barrels on the chambering operation on the additional calibers, and trial run on the Barnes reaming machine just recently received and on the Barnes drilling machine expected during May. Difficulties in maintaining sustained flow of Production are requiring further engineering with Technical personnel.

Tool Design is considered 97% complete, pending satisfactory production of all five calibers.

Pilot Operations will be handled as Trial Runs as indicated above. We have ample evidence that a pilot run is not always a realistic proof of satisfactory production process.

Raw Materials - Substantial quantities of both wood and steel are available.

Purchased Components - The present status is tabulated as follows:

<u>PARTS</u>	<u>NO</u>	<u>ORDERS</u> <u>COMPLETE</u>	<u>1000 OR</u> <u>MORE</u>	<u>LESS THAN</u> <u>1000</u>	<u>NONE</u>
Screw Machine	17	16	1		
Pressed Steel	24	11	7	2	4*
Springs	9	8	0	1	
Powdered Metal	1		1		
Trigger Guard (721)		- 800	available		
Extractor (300 H&H Mag)		- 300	available - 262	at inspection	
M/722 Mag. Spring		- 560	available		
*Safety Cam Blank (new)		- 0	available -)	samples satisfactory	
*Sear Blank (new)		- 0	available -)	except 1 dimension	
Butt Plate (steel)		- 0	available -	using aluminum	
Trigger Guard (722)		- 0	available -	promised week of 4/28/47	

*Note: Approximately 1,000 each of Safety Cam, Sear and Trigger Springs for new safety mechanism have been produced by Technical Division pending receipt of regular blanks.

Machinery - The Barnes 6 Spindle Barrel Drill has been delayed until May 1947. Shipment of the Drum Sender is now promised for the last week of May. Production is continuing, however, on temporary equipment.

Schedule - The difficulties outlined have delayed placing the scheduled number of guns in the warehouse. The production schedule for 1947 remains as follows, although guns for April delivery to warehouse have been withheld for corrections resulting from pilot testing.

April	-	200	
May	-	550	
June	-	1500	(Warehouse stock 7/1/47 - 2250)
July	-	2024	(Est. capacity)
August	-	1012	(2 wks. vacation)
September	-	1932	
October	-	2024	
November	-	1748	
December	-	1932	
Total		12922	