

FIREARMS RESEARCH DIVISION
FIREARMS PROGRAMS
----- 1900 - 1901 -----

	1900		1901		Incentive	Estimated Completion
	Assignable Man Years	Estimated Expenditures	Assignable Man Years	Estimated Expenditures		
<u>NECESSITY</u>						
OF BOLT LOCK IMPROVEMENT	.7	\$ 115M	.5	\$ 75M	Necessary to reduce product liability.	Prototype August 1900 Dec. 1900 Followup in 1901.
OF FIRE CONTROL IMPROVEMENT	1.2	120M	1.5	1.0 200M	Necessary to reduce product liability.	Three prototypes June 1900 Dec. 1901
IMPROV. JOB SAFETY	.3	20M	.5	.5 60M	Necessary to reduce product liability.	Six prototypes June 1900 Dec. 1900 Design follow-up - 1901
Sub Total	2.2	\$255M	2.5	\$ 335M		
<u>COMMITMENTS</u>						
117400-7600 DEVELOPMENT	2.0	200M + 4360M	1.5	.3 \$ 150M	\$1.7M Increased 5 year earnings 24% R.O.I.	Dec. 1900. Design follow-up and addition of new calibers Dec. 1901
XRG- XRG DEVELOPMENT	5.0	390M	9.0	5.5 \$ 700M	Sales earnings TBD	Four prototypes Sept. 1900 Design verification testing complete Nov. 1900 Project Dec. 1901
21mm GUN DEVELOPMENT SCIENTIFIC PROJECT	2.2	210M	.5	.5 \$ 60M	Required to support sales of 6 gauge ammunition	August 1900 Design follow-up program. December 1900 - 1901
11000 870 COMPETITION TRAP GUN	3.2	260M + 62M	.5	0 \$ 60M	Increase Earnings \$625M Earnings for 5 years	December 1900 1901 for Design follow-up program
BOLT ACTION CARBINE STYLING	1.5	125M	1.0	0 7.0 \$ 05M	Increased sales earnings	December 1901

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	1980		1981		Incentive	Estimated Completion
	Assignable Man Years	Estimated Expenditures	Assignable Man Years	Estimated Expenditures		
<u>COMMITMENTS</u> Continued						
PRODUCT IMPROVEMENT COST REDUCTION - SG	1.5	\$ 220M	1.9	\$ 315M	\$300M Savings have been defined, additional savings TBD	Integral Ejector - Dec. 1980
PRODUCT IMPROVEMENT COST REDUCTION - CP	1.3	175M	1.5	225M	\$450M savings have been defined, additional savings TBD	Rivetless Extractor - Dec. 1980
PRODUCT IMPROVEMENT COST REDUCTION - RF	.3	55M	.3	60M	Savings not defined. TBD	
MISC. DESIGN EXPLORATION LIMITED EDITION - DU DISKS UNLIMITED	.6	65M	.5	50M	Increased earnings \$207M, 20% R.O.I. DU Unlimited earnings TBD	August 1980 April 1981
MODEL 700 HORNET & 5500 DEVELOPMENT		50M			Program curtailed, expenditures cover tooling, etc.	
<u>PROCESS DEVELOPMENT</u>						
(A) NUMERICAL CONTROL, and (B) COMPUTER SUPPORT	2.0	135M	3.0	(A) 200M (B) 155M (B) 300M	Potential savings in labor of \$86M per year can be realized. Also design lead time would be reduced.	Submit project for new N/C machine Aug. 1980 Presentation - Interactive Graphic System Sept. 1980. Program Dec. 1982
FOUR SLIDE MACHINE DEVELOPMENT	.4	55M (B) 270M	.5	75M	Potential saving of at least \$400M may be realized after expiration of H&P contract in 1985.	Dec. 1981

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	1980		1981			
	Assignable Man Years	Estimated Expenditures	Assignable Man Years	Estimated Expenditures	Incentive	Estimated Completion
<u>PROCESS DEVELOPMENT</u> Continued						
(C) AUTOMATIC RECEIVER POLISHING MACHINE	.5	\$ 40M	1.0	\$ 115M	Labor savings of \$70M per year with 275 R.O.T. has been estimated. Additional savings of \$100M per year is estimated for polishing R1100 and B70 receivers.	ASEA Dec. 1980
(D) PROGRAMMABLE MANIPULATOR		(C) 130M		(D) 180M		R1100 & B70 Dec. 1981
Sub Total	20.5	\$1900M	21.2	\$2095M		
<u>NEW INITIATIVE</u>						
NEW PROCESSES FOR GUN PARTS	.4	\$ 20M	.5	40M	Program provides for investigation only. Major development will be covered under separate programs.	
XRC PROCESS/TRANSFER MACHINE			.5	50M		
(E) LASER CUTTING - WELDING & WOOD DECORATING	.4	40M	.5	100M	Potential labor saving of \$30M per year may be realized. Increased sales for wood decorating TBD.	Dec. 1981
DEFORMATION PROCESS INVESTIGATION	.2	10M	.5	65M	Potential labor and material savings estimated to be 1,000/year.	TBD
(G) COMPUTER AND INSTRUMENT APPLICATION	.3	30M	1.5	100M	Potential yearly labor savings of \$24M. Design testing load will also be reduced.	Dec. 1982
PRODUCT DEVELOPMENT - FUNDAMENTAL FIREARMS CONCEPTS	.4	25M	.7	75M	Support Program for Providing Design with data for new concepts.	
Sub Total	1.7	\$ 125M	4.2	\$ 410M		
A,B,C,D,E,F,G Capital Expense \$1.185M						
*Plant Capital Expense 4,422M						

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	1 9 8 0		1 9 8 1		<u>Incentive</u>	<u>Estimated Completion</u>
	<u>Assignable Man Years</u>	<u>Estimated Expenditures</u>	<u>Assignable Man Years</u>	<u>Estimated Expenditures</u>		
<u>OTHER ACTIVITIES</u>						
MISC. WORK FOR PLANT & OTHER	3.3	\$ 220M	3.1	\$ 250M		
PLANT ASSISTANCE ON CURRENT REMINGTON GUNS	2.4	\$ 125M	2.5	175M		
PRODUCT PROMOTION	.6	\$ 85M	.6	110M		
a) COMPETITIVE ARMS EVALUATION & WORK FOR SALES						
b) RESEARCH SERVICE - SALES PROMOTION						
TECHNICAL INFORMATION	.8	\$ 75M	1.5	120M		
a) TECHNICAL INFORMATION & SERVICE						
b) GUN OWNER GRAPHICS & LAYOUT						
c) MODEL DRAWING & PARTS LIST MAINTENANCE						
d) PACKAGING						
SERVICE TO SAAMI	.2	\$ 10M	.2	10M		

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	1980		1981		Incentive	Estimated Completion
	Anticipated Man Years	Estimated Expenditures	Anticipated Man Years	Estimated Expenditures		
<u>OTHER ACTIVITIES</u> Continued						
SPECIAL TESTING	.2	\$ 15M	.2	\$ 20M		
a) TESTING ASSISTANCE - BRIDGEPORT RESEARCH						
b) SPECIAL TESTING - LEGAL						
c) OTHER						
Sub Total	7.5	\$ 510M	8.1	\$ 605M		
<u>TOTAL</u>	<u>31.9</u>	<u>\$2890M</u>	<u>36.0</u>	<u>\$3,525M</u>		
*10.9 Eng./Designers 1.0 ESD on loan 31.9 Man Years						
*Includes 3.5 new eng. 2nd 1/2 of year.						

7/10/80