

FIREARMS RESEARCH DIVISION

FIREARMS PROGRAMS

1900 - 1901

<u>NECESSITY</u>	<u>Anticipated Non Years</u>	<u>Patented Expenditures</u>	<u>Anticipated Man Years</u>	<u>Estimated Completion</u>	<u>Incentive</u>				
					<u>Cat. Rate</u>	<u>\$</u>	<u>75M</u>	<u>Necessary to reduce product liability.</u>	<u>Prototype August 1900 Follow-up Nov. 1900.</u>
RF BOLT LINK IMPROVEMENT	.7	\$ 115M	.5	1.0	200M				
RF FIRE CONTROL IMPROVEMENT	1.2	120M	1.5	.5	60M				
RFN1. RFN SAFETY	.3	20M	.5	.5					
Sub Total	2.2	\$255M	2.5				\$ 375M		
<u>COMMITMENTS:</u>									
1974-80 - TRAD PERFORMANCE	2.0	200M	1.5	.3	\$ 150M	\$1.7M	Increased 5 year earnings 24% R.O.I.		Dec. 1980. Design follow- up and addition of new calibers. Nov. 1981
WEAR-XING DEVELOPMENT	5.0	300M	9.0	5.5	\$ 700M	Sales earnings 780			Four prototypes Sept. 1980 design verification testing complete Nov. 1980 Project Nov. 1981
2 ton GUN DEVELOPMENT STRATEGIC PROJECT	2.2	210M	.5	.5	\$ 60M	Required to support sales of a unique ammunition			August 1980 design follow- up program. December 1980
TRAD H70 COMPETITION TRAD GUN	1.2	260M	.5	0	\$ 60M	Increase Earnings \$625M Partners for 5 years			Partners for first 5 years Nov. 1981
WEAR ACTION CARBINE STRATEGIC	1.5	125M	1.0	0	\$ 85M	Increased sales earnings			December 1981

Commitments	Estimated Annualized Year-Years Expenditures	Estimated Annualized Year-Years Expenditures	Estimated Annualized Year-Years Expenditures	Incentive		Estimated Completion Date
				Patented	Patented	
PRODUCT IMPROVEMENT COST REDUCTION - SC	1.5	\$ 220M	1.9	\$ 15M	\$300M savings have been defined. additional savings TBD	Internal Effort - Dec. 1980
PRODUCT IMPROVEMENT COST REDUCTION - CP	1.3	175M	1.5	225M	\$150M savings have been defined. additional savings TBD	Rivetless Extruder - Dec. 1981
PRODUCT IMPROVEMENT COST REDUCTION - HF	.3	55M	.3	60M	Savings not defined. Tbd	
MISC. DESIGN EXPANSION LIMITED EDITION - DI DURK'S UNLIMITED	.6	65M	.5	50M	Increased earnings \$207M, 20% R.O.I. w/ limited earnings Tbd	August 1980 Nov 1 1981
HARDWARE INVESTMENT & SYSTEM DEVELOPMENT		50M			Program curtailed, expenditures cover tooling, etc.	
PROCESS DEVELOPMENT						
(A) NUMERICAL CONTROL, and (B) COMPUTER SUPPORT	2.0	135M	3.0	(A) (B)	200M 155M 100M Potential savings in labor of \$6M per year can be realized. ALSO design lead time would be reduced.	Submit project for new N/C machine Aug. 1980 Presentation - Inter- active Graphic System Sept. 1980. Program Dec. 1982
FIRER STATE MACHINE DEVELOPMENT	.4	55M	.5	75M	Potential saving of at least \$40M may be realized after expiration of IIP contract in 1985.	Dec. 1981

<u>Annual Total Expended This Year</u>		<u>Annual Total Estimated Expenditures Next Year</u>	<u>Estimated Expenditures For Initiation This Year</u>	<u>Incentive</u>	<u>Date Initiated Completion</u>
PROCESS DEVELOPMENT	Cost limited				
(C1)	AUTOMATIC RECEIVER	.5	\$ 40M (C) 130M	1.0	\$ 115M (R) 180M
(D)	POLISHING MACHINE PROGRAMMABLE MANUFACTURING				
Sub Total		20.5	\$190M	21.2	
					\$2095M
NEW INITIATIVE					
	NEW FRANCHISES FOR GIN PARTS	.4	\$ 20M	.5	4M
	ENG. PROCESS/TRANSFER MACHINE			.5	
(E)	LASER CUTTING - WEAVING: 6 Weld Decoating	.4	40M	.5	
				(R) 100M	
	DEFORMATION PROCESS	.2	10M	.5	
	ROTATION				5.5M
(F)	CHAMFER AND INSTRUMENT APPLICATION	.3	30M	1.5	
				(R) 50M	
	PRODUCT DEVELOPMENT - FUNDAMENTAL	.4	25M	.7	
	FIRMAINS CONCRETS				15M
	Sub Total	1.7	\$ 125M	4.2	
					\$ 410M
A,B,C,D,E,F,G	Capital Expenses				\$1,185M
	Plant Capital Expenditure				4,422M

<u>Assignment Non Years</u>	<u>Furnished Expenditures</u>	<u>Anticipated Man Hours</u>	<u>Estimated Expenditures</u>	<u>Incentive</u>
OTHER ACTIVITIES				
MISC. WORK FOR PLANT & OTHER	3.3	\$ 220H	3.1	\$ 250H
PLANT ASSISTANCE ON CURRENT RENTAL/IN RENTS	.6	\$ 125H	2.5	175H
PROMOTION PROMOTIONS	.6	\$ 85H	.6	100H
a) COMPETITIVE ADVS EVALUATION				
b) WORK FOR SALES				
c) RESEARCH SERVICE - SALES				
d) PUBLICATION				
TECHNICAL INFORMATION	.0	\$ 75H	1.5	120H
a) TECHNICAL INFORMATION & SERVICE				
b) GRD MACH GRAPICS & LAYOUT				
c) MODELS, DRAWING & PARTS				
d) EQUIPMENT				
SERVICE TO SALES	.2	\$ 100H	.2	100H

OTHER ACTIVITIES	Cost Found	Estimated Year Veng		Estimated Year Veng		Incentive
		Estimated Year Veng	Estimated Year Veng	Estimated Year Veng	Estimated Year Veng	
SPECIAL TESTING	.2	\$ 15M	.2	\$ 20M		
a) TESTING ASSISTANCE - BRIDGEPORT RESEARCH						
b) SPECIAL TESTING - LEGAL						
c) OTHER						
Total	7.5	\$ 510M	6.7	\$ 605M		
Total	11.9	\$2890M	36.0	\$3,525M		

*10.9 Eng./Designers
1.0 FSD m loan
31.9 Dan Years

*Includes 3.5 new eng.
2nd 1/2 of year.

7/10/82