cc: D.E. Miller (2)
H.J. Hackman
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A.J. Seckner) In
J.J. Phillips) turn
Estimate File #2243

Jamery 16, 1963

L. D. COX

MODEL IP-100 AND MODEL 600 - PROJECT NO. AD-XP-700 REVISED ESTIMATED PROJECT COSTS AND ECONOMICS

Attached is a sheet showing complete revisions of estimated factory costs and project economics for the two subject guns.

Costs are based on current design and processing and incorporate all known changes that have occurred since issuance of the Project (Part II), dated Jamery 23, 1962.

For comparison purposes, original project costs and economics are listed with the revised figures.

R. L. Hall, Supervisor Methods & Standards Section

R. F. Kerr

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INTRODUCTION Continued

In searching for means of logically developing new business, our arms designers have been considering potentials of the handgun market for several years. In this connection it was concluded that chances for success would be considerably greater by introducing a design which might be rather unique and offer advantages not available in competitive models.

In order to reduce investment requirements it was decided that the handgun must be designed for interchangeability of parts and operations with other models. In order to minimize legal restrictions a single shot target and varmint type pistol has been proposed, and a favorable ruling obtained by the Patent Attorney from the U.S. Treasury Department.

The design corresponds generally to the so-called "free" pistols used in International Match competitions. In addition to its use as a target arm, the proposed new pistol would be of great utility to the trapper and to those handling cattle and sheep on open range. Full development of the potentialities of this arm will open up an entirely new field of varmint hunting for woodchuck, fox, coyote and similar animals to the pistol shooter. The effectiveness of the design model was demonstrated in field tests conducted during the past year.

The action is of the turning bolt type similar to some of the German target pistols and is provided with a form fitting free pistol type of stock suitable for use for either right or left hand shooters. In addition there is a flare on the bottom of the grip which results in added stabilization during firing. The stock

INTRODUCTION Continued

is designed for hylon molding and can be integrated into the Ilion operations. The relationship between the stock and the action is such to provide a center of gravity very close to the center line of the barrel, which significantly reduces the muzzle jump and recoil effect so prominent in conventional designs.

The action is a short receiver version of the basic Model 700 and thus adaptable to many of the existing operations and equipment. At the same time it offers a distinct sales advantage in that it is the strongest action ever used in a bolt action rifle and the first commercial type of bolt action to be used in a handgun.

The best results for high velocity low projectile have been achieved through use of a Caliber 222 Remington cartridge which has been modified for use with the short pistol barrel. However, consideration is also being given to an alternate design of the bolt and extractor to accommodate the Remington Jet cartridge.

offers a companion bantam weight high power bolt action carbine rifle.

The appearance and handling is very desirable and attractive and has have been most favorably accepted in preliminary showings to our regional sales managers. It has an overall length of 37" and weights approximately

The rifle stock may be either molded or of the conventional wood, in which case it is proposed to utilize the newly developed custom checkering. This, together with the smaller sized wood blank, will result in material savings. Other material savings and improvements in processing for the barrel, receiver and bolt have resulted in reductions in manufacturing cost and thus providing greater marketing potential.

INTRODUCTION Continued

In addition to the smaller varmint calibers, the carbine rifle will also be capable of handling cartridges up to and including Caliber 308, thus providing distinct advantage in power as compared to other saddle guns.

The Sales Department has recommended that serious consideration be given to include the Caliber 30-30 which has always been a relatively high volume seller for a saddle gun. This being a rim type cartridge will present uesign problems requiring development of a new extractor, and also some means will have to be provided to accomplish feeding of this type of round from a box magazine. It is therefore planned to do further work in effort to accommodate the 30-30 cartridge but at the same time not delay introduction of the rifle which can already handle the rimless type cartridge.

Dues dev cost include get, 30.30 and other trimmed elges?

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•	INTRODUCTION (Continued)
	Based on forecast third year sales, as shown below, the proposed
	selling prices and estimated operative earnings are:
	Proposed 700 Pistol C-13 C.F.Rifle
	Sales Quantity
	Retail Selling Price
	Net Selling Price
	Operative Earnings
	% of Net Selling Price
	DESCRIPTION OF PROPOSED WORK It is proposed to complete the development of the models and procurement of tooling and equipment necessary for production volume Model of pistols and Model of Center Fire
	Rifles and and respectively for the third year.
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	PATENT STATUS
	(Write J.H. Lewis, Jr., Bpt wrote 1/4/62)
٠	REMARKS Subdivision 5 indicates an estimated increase in net earnings of
	\$in the third year of operation, resulting from this project,
	equivalent to a net return of% on investment.
JARoberts:	B (Subdivision 3)

Page 2

1/4/62

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for Soles Department articipates need for Sockers calibers in these models, work will be continued under a separate project.	
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REMINGTON ARMS COMPANY, INC. GENERAL INFORMATION

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PROJECT	NO.	_	Ilion	WORKS
				-

INTRODUCTION

When the double Derringer was discontinued in the year 1935 Remington ceased production of handguns. Although this model was subsequently copied in West Germany and imported into this country, the handgun business was rather dormant for many years. However, within the last decade there has been a significant increase in sales, with some published estimates indicating volumes in the range of one half million units per year. One of the leaders has been Sturm Ruger, and within the past year they have also moved into direct competition with Remington in the autoloading rifle field.

It is believed that a great deal of their success with handguns has been due to offering them in both the modern and traditional styles, and including larger and more powerful calibers at moderate prices.

Smith and Wesson has continued to expand with their high quality and prestige line, and again gaining particular attention in the larger calibers; most recently with a model feminate chambered for the newly developed high velocity, "Jet" cartridge. Colt has not only revived their handgun business but also expanded into the rifle field. High Standard has continued to prominent in the lower priced and smaller caliber field, and at the same time has expanded their marketing into rifles and shotguns.

Patent Statement for XP-13 - XP-700 project from Mr. Phipps 1/8/62:

Consideration of the designs for both the rifle and pistol indicates that no patent infringement will be involved.

A design patent application will be filed to cover the appearance of the pistol when all features of the molded stocks, ribbed barrel, etc., are xxxbix stabilized. In view of a search conducted on the fire control mechanism of the pistol as shown in a detailed drawing and photograph submitted to the patent attorney, it is believed that this control has some novelty and will support a patent application.