

FIREARMS RESEARCH DIVISION

CATEGORY II

Jan.
Origination Date 1982

Update(s) _____

Project Title: Bolt Action Rifle Development Program

Project No.: C-5000

Objective: To investigate and design a new concept bolt action rifle and assure our position in the market place for the dollar value. This project is to include a new receiver and stock design, new fire control, review of the bolt lock system, new scope mounts/sights, and review of the feed system (such as detachable box, etc.). Other concepts to be investigated include expendable case, electronic ignition, and light weight designs. The gun will retain the M/700 lock up and extractor design.

Commitment: The program will be in three parts. Part I, to be completed by January 1983, will include a new receiver/stock design, minor changes to the fire control, revised sights, and the addition of scope mounts. Part II, to be completed by June 1983, will add the feed system, bolt lock system, and light weight concept. Part III, to be completed in 1984, will include the investigation of expendable case ammunition and electronic ignition.

Personnel Assigned: Martin

Designers/Engineers 4 Man Years

Test Lab and N/C Support .5 Man Years

Budget: Operating Expenses 1982 \$ 430 M (including testing)
Research Capital Project/Expenses \$ _____

Uncertainties:

- Can a receiver be restyled and still be cost effective?
- Can a stock be manufactured on a production basis that meets the needs of the customer and marketing?
- Will expendable case ammunition be the answer for future gun designs?

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<u>Program Steps and Timing</u>	<u>Responsibility</u>	<u>Completion Date</u>
Part I		
- Design new receiver and stock	Martin	July '82
- Design scope mounts and sights	Martin	Nov. '82
- Design new fire control	Martin	Jan. '83
Part II		
- Design bolt lock system	Martin	Sept. '82
- Design weight reduction	Martin	Jan. '83
- Design feed system, box, etc.	Martin	June '83
Part III		
- Design system for expendable case ammunition	Martin	Jan. '84
- Design electronic ignition system	Martin	June '84

Note: These dates are only for design and do not establish any production or announcement dates.

FIREARMS RESEARCH DIVISION

Origination Date Jan. '82

Update(s) _____

Project Title: Center Fire Rifle System Research

Project No.: C-7500

Objective: This program provides for development in new center fire rifles such as one common rec. design for bolt actions and auto/pumps, new concepts in locking systems; also, new fire controls and bolt lock systems.

Commitment: Investigate ideas.
Layout & detail drawings.
Make prototypes or mockup models.
Artist rendering.
Investigate new calibers, etc.

Personnel Assigned: Martin

Design/Engineers .75 Man Years

Budget: Operating Expenses 1982 \$ 125M (including testing)
Research Capital Project/Expenses \$ -

Uncertainties:

- Can a two piece stock and fore-end be made that will be acceptable for a bolt action rifle?
- Can a new system be set up that will lock the bolt handle and still allow the full safety operation?

FIREARMS RESEARCH DIVISION

<u>Program Steps and Timing</u>	<u>Responsibility</u>	<u>Completion Date</u>
1. Investigation	Martin	2-1-82
2. Layouts/design for mockups.	Martin	4-1-82
3. Complete look/see types.	Martin	6-1-82
4. Investigate new locking/extractors, etc.	Martin	3-1-82
5. Layout/design and detail.	Martin	5-1-82
6. Make prototypes	Martin	7-1-82
7. Design test.	Martin	9-1-82