

April 6, 1999

Sportsman M/710

Development Status

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ET36246

M/710 Quad Chart

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Sportsman Model 710 Bolt Action Rifle

4/5/99

Lead Engineers: M. Keeney

241095

Project Description:

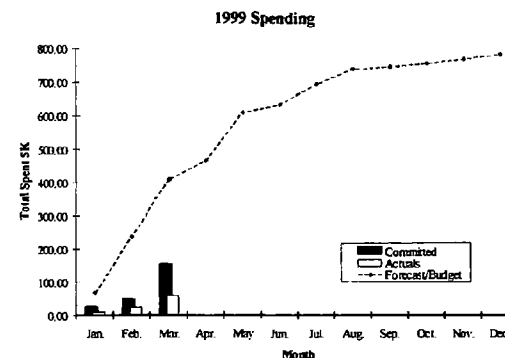
A bolt action rifle accommodating long action & magnum calibers; standard barrel lengths, synthetic & wood stocks; magazine box, and a reasonable grade trigger; accepts scope bases offered with optional adjustable sights.

Risk Assessment:

Medium: Due to aggressive cost and process requirements.

Project Objectives:

- Reduce cost to manufacture and manufacturing lead time
- Above average Gross profit margin (45%)
- Offered as an entry level bolt action rifle while elevating the M/700.
- Compete directly with the Savage (111FC) similar offerings.

**Project Milestones/Schedule:**

Task Name	Finish	1999					2000
		Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1
Sportsman M/710 (30-06)	12/3/99						
Program Approval	12/18/98						
Build EE Test - (12)	4/30/99						
EE Test	6/4/99						
Program Review - 4	6/6/99						
Final Design	8/27/99						
Build DAT Guns (40)	8/25/99						
DAT Test	8/31/99						
Design Transmittal	10/1/99						
T&P	11/12/99						
Warehouse Position	12/3/99						

Total Project Cost: Expense: \$641.51K Capital: \$340.0K

Project Status:

04/01/99

- Year 2000 Introduction Approval based on Review 2/04/99
- Status Update 06/09/99
- Received Functional Samples of:
 - Magazine Assembly
 - Firing Pin Assembly
 - Safety Assembly
 - Extractor/Ejector Assembly
- Receiver Insert mold runoff week of 4/5/99
- Barrels ready for Heat Treatment 4/6/99

Areas of Concern:

- Barrel heat treatment
- Receiver Insert

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M/710 - Design Status

★ Functional Samples

- Magazine Assembly
- Firing Pin Assembly
 - ◆ 6000 Dry Cycles/No Failures
- Safety Assembly
 - ◆ Legal Review
 - ◆ Endurance
- Extractor/Ejector Assembly
- Receiver Insert/Barrel Assembly

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M/710 - Design Status

★ Outstanding Parts for EET

- Barrels due 4/6/99
 - ◆ concentricity issue
 - ◆ not production process representative
- Bolt Bodies due 4/6/99
- Stocks due 4/23/99
 - ◆ aluminum test stocks
- Magazine Latches due 4/23/99
- Magazine Boxes due 4/16/99

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 Order
 Williams v. Remington

M/710 - Design Status

★ Outstanding Drawings

- All Assembly level drawings
- All Spring drawings
- Stock
 - ◆ Model due 5/14/99
- Grip Cap
 - ◆ Model due 5/28/99
- Stock Screw Bushings
 - ◆ Drawing complete 5/28/99

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Williams v. Remington

M/710 Process Status/Issues

- ★ Barrels
 - Production process development
 - ◆ upset
 - ◆ new GFM process
 - Concentricity
- ★ Barrel Heat Treatment Process
 - Process Development complt 3/9/99
 - EET barrel heat treatment complt 4/7/99
- ★ DAT Component Processing

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Shirley Williams v. Remington

M/710 Schedule

Task Name	Finish	1999				
		Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr
Sportsman M/710 (30-06)	12/3/99					
Program Approval	12/18/98		12/18			
Build EE Test - (12)	4/30/99					
EE Test	6/4/99					
Program Review - 4	6/9/99				6/9	
Final Design	8/27/99					
Build DAT Guns (40)	6/25/99					
DAT Test	8/31/99					
Design Transmittal	10/1/99					
T&P	11/12/99					
Warehouse Position	12/3/99					

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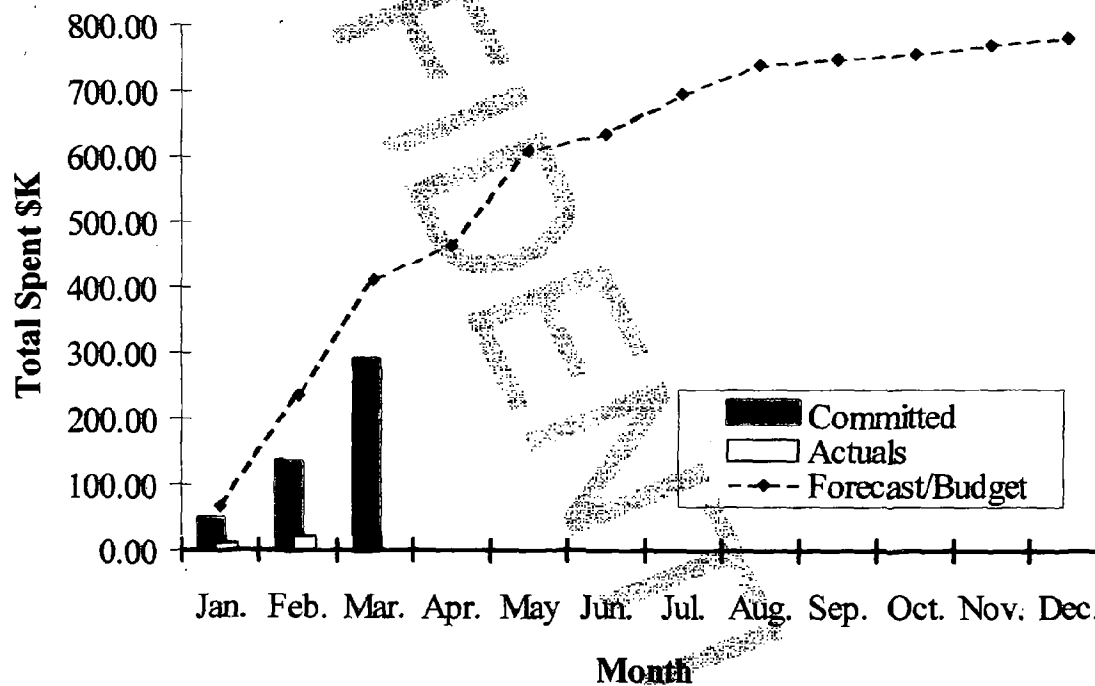
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Williams v. Remington

M/710 Spendout

1999 Spending



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ET36253

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Williams v. Remington

M/710 Summary

- ★ Functional Sub-systems
- ★ EET on schedule
 - Receiver Insert due 4/30/99
 - Barrel Heat Treatment
 - Assembly of EET Guns 5/11/99 in Ilion
- ★ DAT Component Procurement
 - Review of Responsibility

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ET36254

Confidential - Subject - 5.22.06r0009248

Williams v. Remington