Firearms Project Summaries

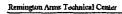
Revised: 10/12/95

Project	Status/Summary	Scheijule	Completion
M/700	Sensitivity test is continuing. Five prototype and five current	Revised	TBD
Improvements	production fire controls are at HP White Laboratories to:	L. W	Į.
	environmental testing. Design acceptance testimosis	. · · · · · · · · · · · · · · · · · · ·	1
	rescheduled until the week beginning December 1995 to		1
	allow for new prototypes to be built.		
M700 IL	Overall, the development portion of the project month	On Schedule	01/11/96
	schedule. The drawing package has been transmitted in Flice		
	The first draft of the Instruction book has been distributed to		
	review. Competitive lock time measurements have been	18.	Í
	completed.		
NALRR	Finalized rear sight layout and receiver/stock interfere with	Revised	12/01/95
	marketing. Received hammers and link return springs	ì	ľ
	Prototype assembly is still on schedule for 45/6/2003.		
	Prototypes will not include rear stall assemblies.		<u> </u>
M/700 VS EV	Two (2) completed prototypes were tested for accuracy at	Two weeks	10/16/95
	Lonoke with good results. To date 250 rounds fired	late	ļ
	successfully in the Firearm. Accumely testing resulted in .5		İ
	to .75 inch groupings. Testing will more to Ilion where the		[
	original accuracy test was performed. This will provide a		
	more comprehensive committison between the HID varmint		
	and the 700 varmint electronic life.		
M/870 H.D.	Overall the project is on schedule. The Initial mechanical	12/15/95	12/29/95
	drawing package for the MR70 H.D. is complete and parts		
	have been ordered smitt put mealiged and checked. WPI		
	Magnetee Inc. our second verifier large custom latching		
	solenoid has received an indemnification statement, and		
	product specification. Anticipated delivery date for a		
	solenoid prototype as Newember 1521.		<u></u>
Biodegradable	Cammerzell received book someisting of 3 different moistures	TBD	TBD
Targei	(5%, 10%, 45%). Only the body at 15% moisture will be		
	used. The entire fifth by of mixture was too fine, and the		
	moisture content on the other two were too low.		
	Approximately 800 targets should be shipped by the end of		
	the week. Also a Winchester thrower was received from		
	Longies on Tuesday.		

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EXHIBIT NO. 105
MARION WARD 0.7
Marion Ward & Assoc., LLC



Project Name: M/700 Improvements

Revised: 10/12/95

Project Manager: Edward Ford Technical Lead: David Findlay

Marketing Manager: 347 Runting

Plant Contact: Joe Mead

Abstract:

	5002000		
Status/Summary	A	Schedule	Completion
Sensitivity test is continuing. Five prototype and five current		Revised	TBD
controls are at HP White Laboratories for environmental test	ng Design		
acceptance testing is rescheduled until the week beginning De	Cember 4, 1995		
to allow for now prototypes to be built.	W		

Accomplishments Since Last Revision:

- Five new safety detent springs have passed 50,000 states with no part breakage.
 Twenty safety retaining clips made to the current singuratile but with AISI 6150 are complete and ready for heat treat and plating.
- 3. Five prototypes and five current productions are at AF. White Laboratories.
- 4. Sensitivity test is continuing.

Areas of Concern:

1. Testing still incomplete.

Current Activities:

Action Item	Skitus	Responsible	Date
Sensitivity Test	in progress.	Development Team	TBD
Environmental testing.	10 gargat HP-White Laboratories.	J. Snedeker	10/20/95

Schedule / Key Milestones

Milestone	Original Date	Current Date
Design Acceptance Testing Complete:	9/15/95	TBD
Transmittal	9/22/95	TBD



Project Name: In-line Blackpowder

Revised: 10-12-95

Project Manager: Nick Sachse Technical Lead: Nick Sachse

Marketing Manager: Juliu Balio Plant Contact: Jim Rabbia

Abstract:

	469400		
Status/Summary		Schedule	Completion
Overall, the development portion of the project is on schee	nic The drawing	On Schedule	11 January 96
package has been transmitted to Ilion. The first draft of the	Bestruction book		
has been distributed for review. Competitive lock time me	astirements have	1]
been completed.	**** ********************************	<u> </u>	\ \

Accomplishments Since Last Revision:

- Completed the first draft of the Instruction Book and distributed for evaluation and legal review.
 Have completed lock time testing on competitive products. The results are: Remington-3ms, Knight-9ms, TC-14ms, CVA-11ms, Traditions-17ms

Areas of Concern:

- 1. A decision to proof test rifles in manufacturing could hinder production start up dates while an efficient and
- effective methodology to accomplish the state of the stat outdoor writers.

Current Activities:

	Action Item	Stittis	Responsible	Date
1.	Field Service Manual first draft.	Being Dana	Sachse	10-31
2.	Review 1st draft of Instruction Manual	Onlifes review	Теат	10-31
3,	Manufacture 15 (minimum) production prototype rifles.		Rabbin, McKee	10-15

Schedule / Key Milestones:

Milestone	Original Date	Current Date
Owners manual and field service manual complete.	1-1-96	1-1-96
Destructive testing complete.	12-1-95	12-1-95
Loading chart comptets	12-1-95	12-1-95

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Project Name: NALRR

Revised: 10/12/95

Project Manager: Edward Ford Technical Lead: Michael Keeney Marketing Manager: John Ballo Plant Concect: John Aldrich

Abstract:

Status/Summary	Schedule	Completion
Finalized rear sight layout and receiver/stock interface with marketing	Revised	12/01/95
Received hammers and link return springs. Prototype assembly is still on		
I selved to be toltolog Desertance the set include see deligation with]

Accomplishments Since Last Revision:

- 1. Finalized rear sight layout.
- 2. Finalized receiver/stock interface layout.
- 3. Finalized front sight bend geometry.
- Altered trigger housing to eliminate flat on bottom of trigger hand.
 Assembled magazine latch, magazine latch abong, latch pivor pin, and release button. Redesigned magazine latch spring to increase return force.
- 6. All detail drawings complete with the exception of the bolt, receiver and housing. Bolt, receiver and housing drawings are being updated to reflect changes requested by marketing.

Areas of Concern:

- 1. Kinematic analysis of fire control with mess components needs to be started.
- Trigger pull target 5 lbs.
- Trigger regain.
- 4. Magazine box feed lip geometry

Current Activities:

	Action Item	Status	Responsible	Date
1.	Drawing package	Blank drawings required based on process	M. Keeney G. Barnes	12/01/95
2.	Updating rear sight component model.	Finalized rear sight siyont. Updating component model and detail drawings.	M. Keeney V. Vermani	10/13/95
3,	Housing modifications.	Confidence.	M. Keeney D. Ortenzi	10/13/95
4.	Receiver / Stock cosmetics.	Pinatized receiver/stock interface. Altering current protestops receivers to approved layout.	M. Keeney J. Balio	10/20/95

Schedule / Key Milestones:

Milestone	Original Date	Current Date
Prototype Build	08/30/95	10/12/95

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Project Name: M700 VS SF EV

Revised: 10-12-92

Project Manager: W. James Technical Lead: J. Ronkainen Marketing Manager: J. Butting/S. Dwyer

Abstract:

Status/Summary		Schedule	Completion
Two (2) completed prototypes were tested for accuracy at		Two weeks late	10/16/95
results. To date 250 rounds fired successfully in the Fire			
testing resulted in .58 to 1.15 inch groupings. Testing w		****)
where the original accuracy test was performed. This wil			
comprehensive comparison between the 700 varmint and	the Ital Parmint		
electronic rifles.	, , , , , , , , , , , , , , , , , , ,		

Accomplishments Since Last Revision:

- 1. Two (2) additional prototypes built.
- 250 rounds successfully fired in the firearms
- 3. Accuracy testing performed at Lonoke.
 - Accuracy shot at 100 yards
 - Shooter Jim Ronkainen
 - Ammunition: Experimental 22x30 electrically p

Gun S/N	Group 1	Group 2	Group 3	Average	SD
S6277540	0,82	\$3.58	0.84	0.75	0.14
S6279095	0.75	3 195	0,95	0.95	0.20

Areas of Concern:

- The conductive ammunitial schedule does not provide time for alterations of either design (Primer or Firearm). Overall properties of the conductive mix is not fully understood. (see: #9 1/2 primer status)
 Electronics may be damaged if a does not shorted round is fired. Electronic modifications required.
 Movement of the "button" in the primer, their serves as the electronic contact/interface for the firing pin clectrode causes significant challes in the primer resistance.

Current Activities

	Action Item	Status	Responsible	Date
1.	Test Prototype	Complete	Ronkainen/Dave	9/27/95
2.	Build Additional Prototypes	Complete	Ronkainen/Duve	10/6/95
3.	Accuracy Testing	Sompiete	Ronkainen/Dave	10/11/95
4.	Ship to Marketing	Performance evaluation (executive review)	Danner	10/13/95
5.	Writers Conference	Ship for Outdoor Writers Conference	Тент	10/16/95

Schedule / Key Milestones:

Milestone	Original Date	Current Date
First Restotype Complete	9/1/95	9/27/95
Test Protetype	9/15/95	10/11/95

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Project Name: 9 1/2 Primer

Revised: 10/12/95 9/31/2000

Project Manager: W. James Technical Lead: Spence Wildman Marketing Manager: J. Dirry Plant Condict: T. Douglas

Abstract:

Status/Summary	Schedule	Completion
Proliminary testing of handloaded 22250 cartridges with conditions and	10/1/95	TBD
electric primers using two modified Model 700 rifles is complete. Reviewing	M	
results of firing 250 rounds in electric varmint. Demonstration to a group of		
outdoor writer's will be arranged at a later date. A new mere-reliable and	2.00	
manufacturable primer design has been conceived.		

Accomplishments Since Last Revision:

1. Testing of 150 rounds in two modified Model 700 of the was conducted with a very low frequency of gas leakage and misfires.

Areas of Concern:

- 1. Overall properties of the conductive mix full fully impressord
 2. Insulator (ammunition) sealing at averages pressure of 60,000 parts.
 3. Cup internal volume is too small to hold matture securely.
- 4. Extended function and accuracy testing not yet completed.
- Unexplained misfires
- 6. Primer design not manufacturable,

Current Activities:

	Action Item	Signs	Responsible	Date
l.	New primer design under study	CAD timeting being confolled, component arrangements being analyzed	Wildman/D. Ronkainen	10/27/95
2,	Firearm Testing-	Two rilles modified, smallion and accuracy in progress	J. Ronkainen/D. Wolterman	10/15/95
3.		25(00 on arger	D. Ronkainen	10/17/95

Schedule / Key Milestone

Mileston	Original Date	Current Date
Firearm Testing-function and accumics 400 rounds	10/1/95	10/11/95
Writer' Conference demonstration	10/20/95	TBD
Test new primer design	11/8/95	11/8/95

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Project Name: M870 H.D.

Revised: 10-12-95

Project Manager: W. James Technical Lead: D. Findlay Marketing Manager: J. Bunting

Plant Contiet

Abstract:

	000000		
Status/Summary	All Market	Schedule	Completion
Overall the project is on schedule. The initial mechanical dr	utting package	12/15/95	12/29/95
for the M870 H.D. is complete and parts have been ordered	omé pari	****	
received and checked. WPI Magnetec Inc. our second vendo	f for a custom	****	
latching solenoid has received an indemnification statement		. "	1.
specification. Anticipated delivery date for a solenoid protection	700 10 000000000000000000000000000000000	1	
November 15th,	***************************************		

Accomplishments Since Last Revision:

- Prototype parts were sent to outside vendor for checking Same parts will be reworked.

 Next review for Oak Grigsby's custom solonoid is schedule for the beer 20th.

 The legal language has been work out with homington's Legal Department and WPI (solenoid vendor), namenant lettering the property of the part of the par agreement statement received from WPI

Areas of Concern:

Oak Grigsby, our secondary vendor for a custom setting at sign, is planning their design to incorporate an
magnetic detent. We do not expect this design to hold as well as WPTs (mechanical detent) during the drop

Current Activities:

	Action Item	Status	Responsible	Date
1,	Procurement of parts	Receive pure lines critical dimensions checked	James/D.Findlay	complete
2.	Finalize Drawings	Somedrawing alternations will be necessary.	D. Findlay	10/15/95
3.	Review Solenoid	Review selectorid design with WPI Magnetec, Inc.	Team	10/20/95
4.	Test electronic boards	Nunctional 1830in Suderway, some minor board layout	D. Wolterman	10/15/95
5.	Indemnity statement	Secure Signatures assiciated with Indemnification agreement.	W. James	complete

Schedule / Key Milestone

Milestone	Original Date	Current Date
Component Verification (eleptro-mech, device)	8/30/95	TBD
Verification model complete	12/16/95	11/15/95

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Project Name: Biodegradable Targets

Revised: 10/12/93

Project Manager: Valerie Goldberg Technical Lead: Old Hickory

Marketing Manager: Att Wheaton Plant Contact: None

Abstract:

Status/Summary	Schedule	Completion
Cammerzell received body consisting of 3 different moistures		TBD
15%). Only the body at 15% moisture will be used. The entire 600lb. of		
mixture was too fine, and the moisture content on the other live were too lov		
Approximately 800 targets should be shipped by the end of the week. Also.	a i	
Winchester thrower was received from Lonoke on Tuesday, these for		1
mounting the thrower are still being investigated.	×	<u> </u>

Accomplishments Since Last Revision:

- 1. Target body being pressed at Cammerzell.
- 2. Draft test plan being written.
- 3. A Winchester trap machine has been received at E-Town and will be on loan to until March '96.

Areas of Concern:

- 1. Homogeneity of the target.
- End product cost. Raw materials cost look good and processing significantly different than current.
- Controlling moisture content of targets is critical

Current Activities:

	Action Item	Status	Responsible	Date
1.	Pressing of 200lb. of mlx.	Should be shipped to E-feeth by the end of the week	Cammerzell	10/13/95
2.	Obtain strength test materials	Samples need to be author at Old Hickory lab.	Schluckebier, Schneider	10/13/95
3.	FEA Mesh models	Linderway	Franz, Davidson	TBD
4,	Test trup acquisition	Trap has been reseased.	Schneider	10/10/95
5.		Draft trist plan being authored.	Goldberg	10/13/95
6.	Kinematic Analysis	Wailing for mesh completion	Franz. Davidson, Schluckebier	TBD

Schedule / Key Milestones:

Milestine	Original Date	Current Date
Design Complete	TBD	TBD
Design Acceptance Feat	TBD	TBD

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