

REMINGTON ARMS COMPANY, INC.
Product Team Meeting Agenda
April 14th, 2004 Ilion Based Topics (4:00 p.m.)
April 15th, 2004 (7:30 a.m.)

Future Meetings

June 22nd – Ilion
July 21st - Madison
August 25th - Ilion
September 15th - Ilion
November 17th - Ilion
December 15th - Elizabethtown

Future Important Dates

April 16 th -18 th	NRA Convention-Pittsburgh, PA
August 11 th -21 st	Grand American-Vandalia, OH
October 14 th -16 th	Writers Seminar-Orangeburg, SC
November 6 th -8 th	Sales Meeting-Greensboro, NC

Business Review

Jay Bunting to provide overview of current business environment
SHOT Show Business Review

Competitive Product Review

Beretta 391 Extrema-Fink
Weatherby Vanguard-Trull

ILION BASED SHOTGUN PRODUCTS

New Shotgun Product

- Model 332

OBJECTIVE: Establish a legitimate presence in the O/U market

Production Status:

- Guns per day-March PTM reported going to 10 guns per day in April.
- Shane Naylor's Gun Shooting Open Issue

ACTION: Perniciaro to contact Billy Crutchfield at Lonoke to discuss performance of current guns on hand at Lonoke and to arrange to have ported guns delivered to Lonoke for use. Steve to update Team at April PTM.

ACTION: S. Perniciaro to contact Serven on GTA ammunition testing to get guns there.

2004 New Shotgun Product

- General New Product Discussion

OBJECTIVE: Ship new product on time

ACTION: Ilion to provide status of any 2004 new shotgun products that have not been released in production yet. From my notes, these products are:

9583 – M1100 Sporting 28/27

- T&P scheduled for Feb. Production May.

9549 – M1100 Sporting 410/27

- T&P scheduled for week of March 8th
- ACTION: Fink to get gun 268 back to J Mroz

6457 – M870 SPS FR/CL 20 GA

T&P scheduled to begin 2/6 with production in April.

- Waiting on new guide rings
- Barrel incorporates new optimized rifling
- Every 20 gauge except 1100 now has 3" chamber

ACTION: Manufacturing to advise current T&P status and production date.

4455 – M1100 Sporting XBL 28/27

Schedule concurrent with gun.

ACTION: Manufacturing to advise current T&P status and production date.

- May on the 28/27, the 410 has been pushed out until June.

2005 New Shotgun Product

2005 New Shotgun Product

OBJECTIVE: New Product Introductions

ACTION: Discussion of prospective new shotgun programs and strategies for 2005.

M870 EXP .410 slug gun. Findlay working up quotes for sights. NPP-2004-35

- \$47K for sight tooling
- 10 prototypes being built
- Engineering will continue to develop
- Prototype sights in March 12th, week to finish barrels and get into T&P, then order MIM tools to arrive late May. Tentative schedule

M332 Sporting DL

- Engineering-We must figure out shooting open issue
- **ACTION: Fink-Provide clear written NPP with direction**
- OBJECTIVE: Announce Target models on 2005 Spring Gun Program

M1100 Sporting DL

- Fink to provide NPP and discuss

Spring Shotguns

- Fink to provide NPP's and discuss

2006 New Product

M332 Small Gauge

- Small frame 20 gauge
- Frame to accommodate 16 gauge barrels
- Stock dimensions-trimmed down version of 12 gauge
- 26" and 28" Barrels
- Steve Perniciaro and Dave Findlay have drawings
- Need to examine ways to build low volume items efficiently
- Investment cast-brings some new issues and solves others
- Have to improve cost, efficiency and quality
- OBJECTIVE: To announce 20 gauge M332 on 2006 Spring Gun Program
- Brad Howard presented current design at March 2004 PTM. Status and timelines to meet August 2005 announcement

Ilion Quality – Shotguns

Shotgun POI

OBJECTIVE: Conformance to SAAMI spec

ACTION: Ilion to provide status of this project. Priority of shotguns in which to incorporate these changes first:

1. All 1100 Target, 1100 Classic Field and Synthetic
2. 11-87 Premier and SP/SPS
3. 870 Wingmaster and SPS
4. 870 Express
5. SP-10

Findlay presented prototype of proposed new rib design to bring our POI in line with SAAMI.

- Tooling & Gauging to be complete by June 2004
- T&P Scheduled September 2004 for 870/1187

11-87 Super Mag

OBJECTIVE: Determine necessary changes to make this product to the performance requirements as originally specified.

Action: Engineering to provide update on design recommendations and timeline for implementation. What testing needs to be done and when can we expect to make the transition in production?

Findlay presented new gas collar design to give a better seal.

- (10) 12 gauge barrels in test with new design
- Objective to reduce 3" & 3 1/2" terminal velocities and improve function
- Testing to be completed by 2.15.04
- MIM, gas cylinder prototype-10 weeks and \$15K
- 30 piece 12 gauge machined sample to transmit April 30, 2004

ACTION: Report on test status

- Range of 350 Max and 150 Min. Still testing different gas cylinder designs.
- By 3.30.04 start MIM Gas Cylinder

• Choke Tube Constriction/Patterning Concerns

OBJECTIVE: Conformance to SAAMI spec/product enhancement.

Testing with the M1100 Tournament Skeet 20 GA showed that we had a problem with the extended choke tubes patterning too tight. This has sparked discussion of a full scale audit of all of our 12 and 20 GA choke tubes to verify patterns are correct. Findlay has proposed drawing changes that will be confirmed through a test plan.

ACTION: Review test results at January PTM.

Corrective action date-

New Tube Identification-Need some sort of symbol or marking to differentiate new tubes from older tubes.

- Complete shooting of 12/20/28 gauge extended Briley tubes by end of February
- Old fixed skeet was "bow tie" configuration all others tapered to .5" flat; why?

ACTION: Pursue making tubes meet SAAMI specs. Gain an understanding of old fixed choke dimensions and performance. Get hardcopy of specs to J. Fink and J. Bunting

- Better to error on the side of tighter constrictions
- Engineering to start with 410/28/20 to get choke tubes patterning to spec.

410-Skeet, IC 2.5" #9 M, Full 3" #6

28 gauge-Skeet, IC-TGT load M, F-Express #6

- ACTION: FINK to provide direction on testing
 - Skeet gun-currently offered in Skeet and IC, historically was skeet and improved skeet
 - Use Remington specifications to provide direction to Briley
 - ACTION: R&D to insure new SG to meet pattern spec
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- Surface Finishes on Internal Components
OBJECTIVE: Product enhancement
 - Marketing to provide direction on acceptable finishes/changes. Images of a M1100 Sporting .410 breech bolt were supplied. With the exception of tool marks in the locking block, the top of the bolt was within current manufacturing levels of acceptability. However, in the eyes of Marketing the level of finish was not acceptable based on quality of finish of competing guns.

ILION BASED GENERAL TOPICS

- New Product Timelines
Review of timelines for BOD presentation
- Elimination of ISS on common fire control and Model 700, Model 7
ACTION: Establish final plan forward for ISS.
ACTION: Ilion to confirm that all bolt guns will have Mayfield cable lock in place and ISS off for phase in Q4.
ACTION: Ilion & E-Town to confirm that Regal lock is in place for all other firearms except M332 for same time frame.
ACTION: Ilion or E-Town needs to identify a CA DOJ lock for M332 to implement ASAP.
ACTION: Direction from Marketing is that we will be CA DOJ compliant and ISS free for all Remington firearms for the catalog year 2005.
- R3 Pad on Wood Stocks
OBJECTIVE: Product enhancement
ACTION: Ilion needs to provide Marketing with a timeline for implementation by Model and by date implemented.
ACTION: Marketing feels that the pad is too "sticky" for target guns. Need to stay with current sporting pads on these models.
- Styrofoam Insert in Gun Boxes
OBJECTIVE: Product enhancement
ACTION: Update team on progress.
- Dimensional Audit
OBJECTIVE: Quality Control
Action: Shoemaker to update team on progress to conduct dimensional audit on catalog sku's.
- Rutland Plywood 870 Exp stock
 - Adds \$0.75 in cost per gun
 - Reduces scrap rate
 - Should be economic calculationACTION: Per last meeting, Ilion was going to analyze cost savings from a scrap reduction perspective to determine if the savings here offset the additional cost of \$0.75 per gun. Consensus at last meeting was that Marketing did not have an issue

with doing this, but there would be no Marketing advantage or ability to get a price increase as a result. This would be justified purely from a plant economics standpoint if at all.

ILION BASED RIFLE PRODUCTS

2004 New Rifles

- Model 700 CDL (Classic Deluxe)
NPP-2004-24 RAMACS(7007,7015,7011,7017,7047,7049,7051,7053)
OBJECTIVE: New Product
ACTION: Ilion to provide update on production status
- Model Seven Synthetic Stock
OBJECTIVE: New Product
ACTION: Ilion to provide update on production status
- Model 700 204 Ruger
OBJECTIVE: New Product
NPP-2004-36, 37,38 RAMACS 6196 (LV SF), 7467 (VLS), 7527 (ADL SYN)
Current on order status is 3,585 pieces (1376- ADL, 1224-VLS, 985- LV SF)
ACTION: Test and Production Status from Ilion last meeting notes showed that we should be production capable by end of March.

2005 Prospective Ilion New Rifle Programs

- 2005 New Products
 - **Model 700 Syn Stock Redesign Status**
 - Need sample stocks by Sept. 30, 2004
- ACTION: Need to have a concise, focused discussion on quotes received thus far and risk assessment from Legal after review of Hogue patent.
- **M700 LV-Custom Foam Stock**
 - \$30 savings v. Bell & Carlson
 - Pillar bedded, steel reinforced
 - Weight currently within ounces of B&C stock, can change weight
- ACTION: Communicate desire to pursue to purchasing
- Model 700 Special Purpose Synthetic – Follows M700 Syn Stock Project
 - Must compete with Tikka and Vanguard
- ACTION: Trull to evaluate
- Model 700 "Super Stainless" – Follows M700 Syn Stock Project & Coatings work by Ilion
 - High-end Stainless offering. Must offer improved hardness & corrosion resistance over regular stainless.
 - Will incorporate rubber overmolded panels in fore end and grip.
- ACTION: Trull approved color sample sent to Madison by Engineering provided we can match trigger guard/Floorplate and bolt plug. Need to have a breakdown this meeting of a. Cost b. Properties c. Technical "jargon" to use to develop a marketable name for the process and what the features/benefits are. Discuss running progressive salt spray test on the M700 with this coating, as well as the Ruger M77 Stainless, Winchester M70 Stainless, and Browning A-Bolt Stainless for marketing purposes.

- Update to Varmint Line – Review/discuss new concepts. Review McMillan stock designs
 - H.S. has submitted to Trull a restyled varmint stock. Will feature two front studs, some reshaping of fore end. Sample received is of Desert Tan which will be used on the blued VS gun. H.S. is resubmitting a different color that will make the stainless gun more appealing to the eye.
 - VS SF to feature blacked flutes like EtronX
 - VS to add fluting to barrel (same w/ LH)
 - VLS to use proposed new laminate stock from Accurate Innovations pending Engineerings review to be complete by 4/15/04.

Action: Engineering to provide update on new laminate stock with bedding block

Action: Need to make sure that purchasing/planning understand that the line is being revamped and to address orders for stocks accordingly. This applies to all new Spring guns and Spring gun deletions.
- Model 700 Classic
ACTION: 2005 M700 Classic will be .308 Win.
- Model 700ML Plans
ACTION: Discontinue line for 2005. Finished goods inventory has been liquidated. Need to assess stranded WIP inventory for write off.
ACTION: Perniciaro to advise of guns built with Green Mountain barrels. We have a home for some of them.

Ilion Engineering Topics – Rifles

- **Improved Chamber Finish Program**
OBJECTIVE: Product Enhancement
Engineering reported at last meeting that this process is being held up due to chamber eccentricity issues. Bulk of problem appears to rest with current CF heading process at Ilion.
Action: Starting by end of March on Stainless models per last meeting. Engineering to confirm.
- **M700 Firecontrol Project**
OBJECTIVE: Product enhancement to improve trigger pull weights and feel to improve competitive position in Marketplace
Action: Ilion to advise of status and timeline.

Ilion Quality Issues – Rifles

- **Bolt-Action Rifle "Lays Left" Issue**
OBJECTIVE: Quality Issue
Action: Engineering and Quality to Provide a brief overview of implementation of corrective action on issues uncovered by team.
- **Process in place to make sure barrels are straight.**
- **Model 700/Seven Trigger Pull Weights**
OBJECTIVE: Quality Issue
Sales and Marketing are receiving a great deal of feed back from customers and consumers that we are losing sales at a devastating level to the Savage Accutrigger offerings.
Action: M700/7 Trigger Pull- Set pull at final assembly to 4 ½ to 5 ½ pounds. Ilion engineering to report on implementation at final assembly.

Action: D. Diaz to evaluate fluted firing pin and report status at next meeting.

- **Model 7400 Improvement Project**
OBJECTIVE: Quality Issue
ACTION: Trull to update team on comments and commitments from IWA
ACTION: Ilion to update on status and implementation dates. MUST HAPPEN FOR WINTER PROGRAM!
ACTION: Discuss Model number change and strategy for regular catalog line. Model 7500 Woodmaster?

R&D TOPICS

E-Town Development Topics

- **Model 597 Performance Improvement**
OBJECTIVE: Performance Improvement of 597
Action: EET on 10 round box was positive. Marketing approved taller box bottom on 10 round box. Diaz to provide update on DAT and target production date.
- **17 Hornady Mach 2 Project**
OBJECTIVE: New Product
Action: Discuss M504 strategy and M597 strategy for this new cartridge. Need to have shippable product in the warehouse in September this year.
Action: Marketing needs confirmation on M504 product for intro at rep principles meeting.
Action: Diaz to advise on ammo for testing from Eley & Hornady. Critical to have both types for M597 development.

Model 332 Small Gauge

OBJECTIVE: New Product

Action: Diaz to update on design status.

- Prototype 1-2 guns
 - Drawings out for quote on parts
 - Ilion to supply barrels
 - Introduction date August 2005
 - Marketing to provide NPP with 26, 28 and 30 inch barrels
 - Beretta currently smallest frame in market, Remington design smaller yet
 - Design eliminates curved bottom barrel
 - Add use as many parts as possible from 12 gauge
 - Development schedule set up for 8/05 warehouse position
- ACTION: S. Perniciaro to check/evaluate to report on "straight" bottom barrel on 12 gauge. Report at next meeting.
- Quickest route to market from Remington standpoint machining.
 - Casting overall appearance and lines more flexible in S. Perniciaro opinion.
 - Frame to be machined identical to 12 gauge
- **M7615-16.5" bbl. Wilson ghost ring rear sight, adapted to accept AR15 mag box**
OBJECTIVE: New LE product
ACTION: Diaz to give brief update on test status.
 - **C.A.R. (Centerfire Autoloading Rifle)**
OBJECTIVE: New product
Action: Discuss concept and timing

- **N.B.A.R. (New Bolt-Action Rifle)**
OBJECTIVE: New Product (Long term)
Action: **Discuss strategy & timing**
Product boarded

MAYFIELD BASED RIFLE PRODUCTS

2004 New Rifle Product – Mayfield

- Model 504
OBJECTIVE: New Product
Action: **Golemboski to advise of production status.**
- Model 710 Magnum
OBJECTIVE: New Product
Action: **Review status of 7mm Rem Mag now that .300 Win Mag has been released.**

2005/2006 New Rifle Product – Mayfield

- Model 504-T LS HB
OBJECTIVE: New Product
NPP-2005-03 RAMAC's TBD
Line Extensions to M504 line in 22LR and 17HMR target versions.
Action: **Diaz to update on status. Update on chamber dimensions for match chamber strategy. Update on stock from Trull**
- Model 710 Steel Receiver
OBJECTIVE: Product Enhancement
Early 2004 indicators suggest that "sprucing up" the line in 2005 will be needed.
- Action: **Need to make sure we are grounded for introduction for 2005. Will need new RAMAC's.**
- Model 710 Short Action
OBJECTIVE: New Product
Action: **Likely a 2006 product. Project is under review at E-Town. Diaz to provide update.**