

**REMINGTON ARMS COMPANY, INC.**  
**Product Team Meeting Agenda**  
**January 29<sup>th</sup>, 2004 Ilion Meeting (7:30 a.m.)**

**Future Meetings**

Feb. 24<sup>th</sup> – Ilion  
March 24<sup>th</sup> - Ilion

**Future Important Dates**

Feb 12-15, 2004	SHOT Show (Las Vegas, NV)
Feb. 28 <sup>th</sup>	Customer Early Order Qualification Period Ends
March 4 <sup>th</sup>	M2100 Review and Test Fire
March 11 <sup>th</sup>	Planning Meeting – Madison
March 31 <sup>st</sup>	Target Rev. 1 Forecast

**Business Review**

Jay Bunting to provide overview of current business environment

**Competitive Product Review**

Starting Next Meeting, Trull and Fink will Conduct Competitive Product Reviews for Group

**ILION BASED SHOTGUN PRODUCTS**

**2002 New Shotgun Product**

- Model 332  
OBJECTIVE: Establish a legitimate presence in the O/U market  
**Production Status: Guns per day**  
**ACTION: Engineering to prepare CAR for Cahan to review and submit to corporate. Team concurs that this is an effort which needs to be pursued.**  
Fore end loosening has hopefully been corrected through Assembly further tightening fore ends prior to pack  
**ACTION: Trull to review with Evans to see if any repairs or calls have been received regarding this issue.**  
**CSR's are not reporting any new issues concerning loose fore ends.**  
Cosmetic issues identified above should be corrected.  
**ACTION: Trull to order 5 new guns from OHL to review for cosmetics**  
As a whole, guns looked good. A couple of guns with wood to metal fit that was not perfect. Gun function test was perfect for three guns.  
**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 January MTG.**

**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.

**ACTION:** 2 samples needed by end of January for SHOT Show display.

- 9549 – M1100 Sporting 410/27

Scheduled same as 28 GA

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

- 6457 – M870 SPS FR/CL 20 GA

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

**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.

### **2005 New Shotgun Product**

- 2005 New Shotgun Product

OBJECTIVE: New Product

**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

#### **M332 Sporting**

- 30" and 32" Barrels
- 2 3/4" Chambers
- Lengthened Forcing Cones
- .735" Bore Diameter
- Ported Barrels
- Fiber Optic Sight
- 14 1/4" LOP
- M396 Type Stock and Fore End

#### **M332 Trap Combo**

- 34" Single Trap Barrels
- 32" OU Barrels
- 2 3/4" Chambers
- Lengthened Forcing Cones
- .735" Bore Diameter
- Ported Barrels
- Twin Beads
- 14 1/4" LOP
- M396 Type Stock and Fore End

#### **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

### **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.

**ACTION: Ilion to test in January and report on results of testing at next months PTM. Need samples shipped to Madison to evaluate.**

- 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

**ACTION: Report on test status**

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.**

### **ILION BASED GENERAL TOPICS**

- Elimination of ISS on common fire control and Model 700, Model 7

**ACTION: Establish final plan forward for ISS.**

- 3" Chambers in 20 ga deer barrels (NPP 2003-78)

**OBJECTIVE:** Uniformity across 20 gauge slug offerings.

**ACTION: Ilion to confirm 870 chambers changed to 3" and 1100 chamber stayed 2 1/4"**

Ilion confirmed that the M1100 20GA Magnum has a different action sleeve configuration than the non-magnum counterpart.

- R3 Pad on Wood Stocks

**OBJECTIVE:** Product enhancement

**Action: Ilion to confirm roll-in to begin Q2 and establish timeline by model.**

- Styrofoam Insert in Gun Boxes

**OBJECTIVE:** Product enhancement

**Action: Shumway to update team on progress.**

- Salt Bleed Out  
OBJECTIVE: Quality Improvement  
We continue to see bluing salt bleed out all too frequently on both our shotguns and our rifles. Other manufacturers do not appear to have the same degree of problems with this issue.  
ACTION: Ilion to advise on progress to eliminate (no-bleed tank project)

## **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: Production Status from Ilion
- Model Seven Synthetic Stock  
OBJECTIVE: New Product  
Action: Status of mold texturing and samples for SHOT to Trull
- Model 700 204 Ruger  
OBJECTIVE: New Product  
**NPP-2004-36, 37, 38 RAMACS 6196 (LV SF), 7467 (VLS), 7527 (ADL SYN)**  
ACTION: Test and Production Status from Ilion

### **2005 Prospective Ilion New Rifle Programs**

- 2005 New Products  
OBJECTIVE: New Product
  - Model 700 Syn Stock Redesign Status
  - Model 700 Special Purpose Synthetic – Trull to issue NPP prior to Meeting.
  - Update to Varmint Line – Review/discuss new concepts. Review McMillan stock designs
  - Model 700 Classic thoughts – Any Ideas? 35 Remington?
  - Ultimate Firearms Muzzleloader – Samples received. Need to review and address path forward.

### **Ilion Engineering Topics – Rifles**

- Alternative Metal Finish for Stainless Rifles  
OBJECTIVE: Product Enhancement  
Action: Sietsema to brief team on Bodycote process, what it is, how it performs, and what it costs.
- Roller Burnish for Rifle Chambers  
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: Engineering to update on status. Can we implement on 7400/7600's?

### **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.**
- 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: **Let's finalize direction and path forward given plans on the table at this meeting.**
- Centerfire Rifle Chamber Specs – Ilion reamers as compared to SAAMI  
OBJECTIVE: Quality Issue  
Action: **Perniciaro/Diaz to advise if proposals will be made to SAAMI to add freebore to cartridge drawings determined to be an issue from last meeting.**
- Model 7400 Improvement Project  
OBJECTIVE: Quality Issue  
ACTION: **Need status update from Findlay. Also, need to determine if we can have 150 replacement barrels in 35 Whelen for Borchers by this spring. They have big problems with their guns in Spain right now. Trull needs to be prepared to address performance concerns with key customers at IWA show complete with timelines that manufacturing can support.**
- Bolt-Action Rifle Torque Settings at Final Assembly  
OBJECTIVE: Quality Issue  
ACTION: **Manufacturing to confirm that processes have been changed at final assembly.**

## ***R&D TOPICS***

### **E-Town Development Topics**

- Model 597 Performance Improvement  
OBJECTIVE: Performance Improvement of 597  
Action: **Diaz to advise of redesign efforts.**
- Model 7600 223 Rem  
OBJECTIVE: New Product  
Action: **Diaz to update on DAT status. Guns were received from Ilion. Advise of anticipated completion date.**

## ***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 T&P and build plan.

#### **2005 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: Discuss concepts and clarify any issues
- Model 710 Steel Receiver  
OBJECTIVE: Product Enhancement  
Early 2004 indicators suggest that "sprucing up" the line in 2005 will be needed.  
Action: Discuss path forward
- Model 710 Short Action  
OBJECTIVE: New Product  
Action: Discuss plan of action to introduce .243 Win caliber in M710. True short action vs. using current action.