

REMINGTON ARMS COMPANY, INC.
Product Team Meeting Minutes

December 15th, 2004 7:30 am EST - Ilion

Future Meetings

February 16th - Ilion
March 16th - Ilion
April 13th - Ilion
May 18th - Ilion
June 15th - Ilion

Future Important Dates

January 28th - 31st SHOT Show - Las Vegas, NV
April 15th - 17th NRA Show - Houston, TX

Business Review

John Trull to provide overview of current business environment

ILION BASED SHOTGUN PRODUCTS

New Shotgun Product

Model 332-Skinner, Orf

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

Production Status:

- Shooting Open-Update
Top Lever Template
Grinding Lugs
Communicating with Arms Service-Any New Repairs?

Action: Look at improving efficiencies and cost. (Orf)

ACTION: B Orf -M332 Camo-Need to have (2) 26" bbl guns & (2) 28" bbl guns dipped in New Mossy Oak Break-Up and (1) 30" bbl gun in New Shadowgrass by Mid-December 2004. These guns will be displayed in the main meeting room at the SHOT Show to gauge customer interest.

Bob looking at product coming into ARM. Not a lot of product coming in. All Shoot open cases have been top-lever position.

Camo-Colorworks has 2ea 26" and 28" guns and 1ea of the 30". Bob met with Colorworks to review what has to be masked. Colorworks trying to dip a gun semi-assembled. If successful, cost will be fairly competitive. If they have to totally disassemble, pricing will likely be extremely high. 26" in Obsession, 28" in New Break Up, 30" in MAXX-4. Should have samples by end of December. Looking at ways that we could reduce cost on finish from our end (roll engraving, shot blast vs. polish).

M332 Sporting DL- D.Diaz

Need 10K rounds shot through 3 guns to assess durability of design. Need to look at frame treatment. R. Murphy to work with B. Orf on improving design. Must have design complete and finalized by June 1, 2005 for a 2006 Spring Gun introduction.

- Current Status
3200 style barrel hanger-Designed barrel hanger set, .040" convergance. Plans to braze 3-5 barrel sets week of 7.21. Barrels will be crowned but not tubed and shot for POI.
Side Panels-Update

5 prototype barrels with .040" versus .120" convergance built. Will ship to R. Murphy week of 8.23. Not overbored or choked, will shoot for POI/POA. Need to go to a light contour barrel, 28" 30" 32" 34" barrels, tapered rib, stepped rib, straight comb. Current design has bottom barrel 1" higher than top barrel. Need taper of approximately .014" like 3200. Barrels would be straight allowing tube sets to work.

Barrels went together well, less labor

DAT complete first week of December. T&P-barrels should not be an issue. Biggest issue is raised side panels.

Action: Make sure all future drawings/communications are funneled through Orf. (Diaz/Murphy)

Action: Checkering patterns are an option that need addressed. (Fink) Decision to stay with flat side panels.

Week of 12/6 with new mid-hanger, rib, and muzzle hanger. 11mm-8mm stepped rib.

DAT complete beginning of February.

Murphy here today brazing barrel assemblies. Still on track to complete DAT by end of February. Need to know where we are with stock and fore end configurations from Fink (i.e. adjustable, non-adjustable, fore end design, stock design (dimensions), and checkering configuration. Needs to be communicated to Ilion.

M332 20 gauge-2006 New Product Introduction

- Current Status-Diaz

Randy assembling parts that were designed by B. Howard; just now resuming work. Murphy assembled parts, but had problems with fitting. Nothing catastrophic, but making changes with Kellems now. Should have parts/bbls by end of month.

M1100 Sporting DL-B. Orf

- Current Status-Make 1100 bbl with 105 ID and choke tubes, .735" with lengthened forcing cones. Goal is to have 10 barrels by September 1st. Boyds should make adjustable comb stock

Target sights

Glass beaded/shot blasted receiver

ACTION: Jeweling bolt-need to investigate bolt cosmetics. Fluting was proposed as an option. B. Orf to look into what is feasible.

Investigating ways to improve surface finish: action bars, slide, action tube, receiver with nickel Teflon finish. Polish hammer, locking block, action spring tube follower, link and hammer plunger with coating. Will have shooting prototypes by the end of September.

Bolt-have not come up with option for jewelling or fluting. Body cote may be an option for the bolt.

Assuming cosmetics finalized by mid September, production could start end of first quarter.

Need-new cosmetics; different receiver look, new fore end and checkering pattern

ACTION: Fink to supply artistic rendering for benchmark.

NEED competitive review; bring guns to next meeting.

Work with Hogue on grips-Fink to get rendering to Orf to develop.

Orf-Bolt velocities not affected by nickel Teflon finish. Need more rounds on gun then check bolt velocities. Work with G. Sietsema on ways to provide a matte black top radius.

Fink-finalize checkering pattern.

Put additional 100 rounds on guns "break in". Back in lab now for BV's. Proposed finish is a powder coat on top and bottom radius with nickel plate on sides. Where are we on stock and fore end changes - cosmetics, dimensions, adjustability. Need direction on fluting bolt.

2005 Spring Shotguns-Skinner, Mroz, Orf

- Current Status
2005-06 SP-10 Mossy Oak Obsession **October production-400 by year end**
Done. Inventory position of 200.
2005-07 11-87 SM NWTF-Royalties **1500 by year end Inventory at year end a concern,**
to date orders are less than 500 guns
Actual inventory around 400.
2005-08 870 SM Thumbhole **850 by year end, 50 by the end of September**
1st 8 stocks from Boyds have rough spots. Some issues with Boyds and their ability to supply. Added lock washer.
Built orders. Putting some to inventory.
2005-09 870 Exp Jr. NWTF-Royalties **750 by year end**
925 Team NWTF guns in October
Built orders. 800 in inventory at year end.

1187 Sportsman Synthetic Line -

Update \$37K total in stranded parts, \$11K is recoil pads that can be used.

ACTION: Skinner-12 gauge production schedule- 12 gauges are structured with schedules starting in October for 12/26&28 and 12/21 FR CL.

ACTION: B. Orf - 20 gauge fore end status. 9 weeks & \$15K to modify 1100 20 gauge tool. Sample for ends first week of November. Scheduled to start in December. Good inventory of all three 12 gauge guns
Will start 20 gauge guns week of November 22nd.
All products released.

2005 SHOT Show Specials

- NPP 2005-28 870 SP TH FR CL RAMAC 25005
SHOT show samples built. Working on structures and transmittal now.
- M 11-87 Premier with Wood Extra-Need Cost, Logistics, etc
 - Orf working with supplier of wood. Expressed concerns.
 - Project has been tabled 12.1.04 due to logistical problems with Italian wood decorator.Italian samples are DOA. Received samples from USA Wood. Not optimistic about being able to support program through USA Wood. Working with Colorworks now on some options. Probably most feasible outcome. Samples by SHOT to review at earliest.
- 870 FRCL Extra Barrel with Scope Mounted and Bore Sighted
 - Trull has contact for clam pack contact for tool.
 - Fink/Trull met with clam pack vendor 11.24. Quote being supplied.Working with logistics regarding packaging ammunition and an extra barrel together.Trull briefed team. Will follow up with Franz and Fitzsimmons.
 - 2nd XBL for SHOT-12.18 CYL BS
RAMAC 4620 up and structured in system.

870 Tactical – Metal going to Colorworks for paint (O.D. Green). Black stock. 3-shot ext. 20" B.S. bbl. Samples will have IC bbl. Don't have a 20" Cyl currently structured. Can make CYL if required. Adding Soft-touch finish. Samples on track.

2006 870 Express Line

Boyd's laminate with rubber. Need to firm up pricing and exactly what end product will be. Need to firm up pricing. Send prototype to Fink to take to SHOT to show customers. Ilion to get samples made with

- New cosmetics for Express Line (Fink)
Black synthetic stock and fore end with overmolded inserts
ACTION: Fink to write proposal
Youth guns with redesigned fore end
Potential laminated wood stocks with inserts-need cost and volume commitment from Boyds
Camo guns changing to Mossy Oak Pattern-Most likely Break-Up
Tooling would be around \$250k for 12 GA tool. Possible concept would be to remove checkering and insert texturing in those areas. Marketing define exactly what we are going to proceed prior to SHOT.

870 Slug Gun

Will have gun for Dicks meeting 12.2. Scope mounted directly on receiver.
Going to pitch to Gander Mtn.
Ilion Quality – Shotguns

Shotgun POI-Perniciaro, Orf-Timeline for Change

OBJECTIVE: Conformance to SAAMI spec

ACTION: Ilion Engineering 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

Awaiting final samples from Marbles with flats on sides to allow tool to grasp for assembly. Drawings done. Will transmit upon 1st article approval. Plan phase in in January.

- Choke Tube Constriction/Patterning Concerns Drawings changed-Need ID Mark
ACTION: B Orf to update drawings. Need to add some sort of ID mark on choke tubes. ID mark is an underscore after choke constriction i.e. MOD_ . Ilion to send back Fink's spreadsheet with Effective date column added to spreadsheet. Will distribute information internally as needed. Not going to issue a bulletin to RARC's or field.

ILION BASED GENERAL TOPICS

Fore End Stickers for Wal* Mart - Trull

- RAMACS by Model
7400-9794, 9796
1187-9895, 9899, 9879, 9881, 9825, 9827, 9858, 9891
870-5098
700-7512, 7474, 7478, 7480, 7514, 7476, 7516, 7482
7307, 7309, 7311, 7313, 7315

Fore End hanger being developed. Will replace sticker that has been developed. Artwork to be provided by Al Russo.

Trull to followup on status. Need to think about how guns are shipped broken down and how do we maximize our potential to have the tag on the guns when they are displayed.

R3 Pad on Wood Stocks-B. Orf

- Current status and implementation dates.
- 1st T&P on 700 magnum received 8.22. will submit CAR for white line spacer. Continuing to work on short stocks. Ed Owens is handling, will be at S&K at least one week per month.
- Currently working on 1100 Upland Special, Mountain Rifle.
- Will have 50 Wingmaster stocks within the next week.

Spacer in place for BDL magnum. Waiting of nobides; should be in by end of November; 700 BDL Magnums, M7, Wingmaster, 700 Mountain rifle(changing program), Some issues with Boyds and CDL R3 fit.

Tooling changed for Premier/Wing stocks in place. Should be starting very soon on short stocks. Awaiting nobides for M700 BDL Magnum. Mountain rifles to start in February. Skinner to send Marketing updated cut in schedule for R3 pad on wood stocks.

Bottega Equipment – B. Orf

- Update on recent communication with Bottega

NRA Licensed Guns

1187 Sportsman

870 Wingmaster

700 SPS

552 with fine line engraving.

Need Mike LeMay to work with Bottega to get NRA completed ASAP

Need to know what we have now and what is needed to build new rolls in the future.

Have NRA guns to preview to customers and launch at NRA Show in April.

Action: Fink/Trull to complete NPP's.

LeMay has been in touch with Bottega. Will brief on status. Will follow up with Russo on status of NRA license program and give update by end of month. Should look at American flag version 552/572.

SHOT Show Samples – Perniciaro/Orf/Mroz

- Status/Progress Update

Shotguns 90% complete. Deactivating now. Remaining – Premier LH and Classic Trap, 870 Tactical

Rifles 60% complete. XCR's, SPS Youth are exceptions.

ILION BASED RIFLE PRODUCTS

2005 Ilion New Rifle Programs

Model 700 Synthetic Stock Redesign Status–Mead

- Status Update on vendor progress
 - Status update on production plans Balio
- SPS – LA Mag, STD in production, SA STD being inletted for first article approval now. Working through issues with recoil pad fit. Trying to work with F10101 rather than F10116 pad. Building fast and furious.**
- XCR – Blanks shot yesterday. Shooting overmold fore ends and grips first shot this week. After tweaked, will send tools to Mold Tech. Mead to update on progress Friday.**

Custom Foam – RIM Stock for 700 LV SF Mead

- Status Update on progress

- Discuss stock for 700 Tactical
- Finishing final testing and tweaking. First article submitted by end of December. Working on color samples for 700 Tactical now. Approved gray with black spatter paint.**

Model 700 XCR –TriNyte Coating-G. Sietsema

- Need an update on DAT/T&P to establish material flow process with vendor.
- Need an update on competitive samples to independent test lab that we agreed to go ahead and get started per the last meeting.
- Intellectual property – have we filed provisionals?
- What are lead times?
- What is final costing of TriNyte coating?

Completed competitive testing at IMR. Results as anticipated. Ruger performed better than others due to polish.

Using clear powder coat to seal samples for SHOT. Need copy of test method. 72hour salt spray test ASTM B117-03. Glen to e-mail to Trull. Should have by end of next week. Will send clearcoated samples to Trull by end of this week for SHOT Show test. Intellectual property paperwork request has been submitted to legal. Would like to be able to say patent pending at SHOT.

Leadtime outside is 17 production days (4 weeks). That has 5 days turn between suppliers.

Final costing \$46.15.

Small Sales samples enroute now. Hoping to have by SHOT.

Samples of polish finish being constructed now as well. Will review with Marketing ASAP (by end of month).

Model XR-100-Mroz

- Status Update on Gun – DAT, T&P, etc.
- Discuss findings on gun that failed to eject spent cases at Sales Meeting. (Gun may not have arrived as we could not ship guns to ILN for the past 2-weeks due to inventory at Arms Service)

DAT and T&P's complete. Re-running .204 Ruger due to GFM problems. Still waiting final tweaks on stock from Boyd's. Sending 600 stocks back for modification.

Model 700 SPL Fire Control – Mead

- Update on testing/timing. – Mead

Still on track to time line. T&P – June. Production Start in June.

Build bank of 10k old firecontrols (4 week supply). Production plans are for 11-15 new trigger assemblies as finished product.

6.8mm Rem SPC Bolt Head/Extractor Development – Perniciaro

- Status of M700P LTR
- Timing/Cost of Development

Have bolt heads here. Assemblies by Friday. Have guns upstairs awaiting bolts. Working on DAT step now. Testing Dec. 22 – Jan. 10.

Ilion Quality Issues – Rifles

Model 700 Varmint Accuracy Standards -S. Perniciaro/McGlory

- Status on protocol to establish accuracy standards for varmint guns with Ohler system

Working on compiling data for .204 Ruger, .223 Rem, .220 Swift, .22-250 Rem.

All understand goal of guarantee of MOA accuracy on varmint line.

7400 SGS-New gas system – Sietsema

- Glen to update on status.
- Trull to update on NPP

Reviewed NPP. Should not be a problem with timing. Reviewed fore end. Liked one of the options presented on fore end. Need to determine stock drops (straight comb or monte carlo version?) and checkering pattern. Will keep synthetic stock same as now with no change to externals. May use a straight comb synthetic stock vs. monte carlo synthetic stock on black gun. Will follow with NPP's to mirror pump version off wood version M746. 2-Shot ND versions should read as Model 746 N.D. in SAP to differentiate non-detachable magazine guns from standard.

2006 New Rifle Products

New Model 700 Varmint Line - Mead

- Utilizes standards set forth above with respect to accuracy and trigger pull
- Will utilize SPL firecontrol
- Will utilize new stock design outlined at recent E-Town meeting on this subject
- Discussions around how we will achieve our goals on accuracy
- Discussions around styling and cosmetics, i.e. carbon receiver with stainless barrel

Sample varmint stock due to Trull by end of December. Once reviewed and o.k.'d by Marketing, NPP will be issued. Things to consider: Left-hand inventory of current configuration, bedding method (pillar, bedding block, v-block, other) and metal (stainless, carbon, or combination of both, fluting, polish vs. glass bead, powder coat). All understand goals with respect to accuracy.

Update Model Seven Wood Line for 2006

- Trull to advise of path forward.

Options being considered are a CDL style walnut M7, CDL style laminate.

R&D TOPICS

E-Town Development Topics

17 Hornady Mach 2 Project – Diaz/Lance

- Status on 504 accuracy testing

90 guns coming through now. Test results on handful of guns that were walked through were very promising. If 90 gun run mimics results of the samples, will follow through with a 200 gun run. Will have a view on 90 gun run by January 2nd 2005.

- Status on 597

Continuing to explore on an opportunistic basis.

NCAR – (New Centerfire Autoloading Rifle) – Diaz

- Status on Design progress

Mayfield Topics

Model 710 Metal Receiver – Diaz/Lance

- T&P Update
- Timing for Implementation
- Supplier update on metal receiver

Running parts for T&P (with cutdown receiver inserts) through CMM and serializing now. Building into complete guns by 12/22. Will send SN's to E-Town for T&P selection by end of week.

Tool for molded inserts being tweaked now. When final molded parts are complete, will send to E-Town for cursory check.

Enough "old" non-all metal receiver material to last until beginning of March. Will segregate inventory and move through Wal Mart.

Could begin production a week or two after T&P exit.

Model 504-T LS HB – Diaz/Lance/Trull

- Need to firm up path forward

Shipping new DAT lot of bbls to Will this week. R&D is going to get correct stock with pillars on them. Trull to call Boyd's to try and get them expedite stocks. 3 guns for SHOT are complete. Outdoorlife's sample is close to complete. Shooting around 0.60" out of jack. Will shoot from shoulder also. Will ship by end of year with M710 all-metal receiver. Lance and Vicars are concerned that a 0.50" max group size is not achievable on a production basis. Plan is to test current batch in DAT and analyze results. Discussion also centered around taking extra care on the heavy barrel models. Suggestions are: lapping all bores, shooting off shoulder and including a target in box with the heavy barrel guns only.

Model 504 Accuracy Standards – Lance/Vicars

- Need to firm up action plan/path forward on guns in OHL
- Need to firm up action plan for production path

Just released 279 guns. Will receive 900 guns back from OHL and begin sorting through, shooting and lapping where necessary. Concern from Lance is time involved. Plan is to monitor open orders and set a target of keeping pace with customer orders plus 5%-10% at any given time.

Current plans on accuracy is focused in on the stock. Have worked with Boyd's to modify the stock to add pillar bedding and to remove the pressure point forward of the receiver (pads at muzzle remain). This has resulted in accuracy improvement of 0.10"-0.20". Cost implications are minimal. Boyd's is to provide 20 sample stocks to validate results and then will implement.

Model 710 Short Action – Diaz

- Path forward and status on new direction to use std. action and stock.

Norton working on getting 243 Win barrels made now from outside source. Tooling for Mayfield is 8 weeks out. Will begin EET phase with sourced barrels.

Military/Law Enforcement

870 MCS-Status Update

- Israeli 120 day order with 10" bbl and threaded muzzle break choke tube, would not work. Need direction from Schoppman and Foster.
- Airforce order pending for 1150 guns.

7615-Status Update

Finishing Prod. Transmittal by Jan. 3. 100 gun T&P build 4-10. Testing until February 7th. Production plan has 200 in February 750 in March.