

**REMINGTON ARMS COMPANY, INC.**

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**Product Team Minutes**

Wednesday, July 18<sup>th</sup>, 2007 – Ilion —7:30 am – UNTIL

**Future Meetings**

Wednesday, August 22<sup>nd</sup>, 2007 – Ilion

**Ilion Topics**

**105 status/update (Perniciaro/Pugliese/Keeney)**

- Status and update of progress
- Manufacturing update/timeline

Took 10 guns to function test with all of the current improvements—all guns but one passed

Field tested guns after gallery function test—5 failed at first, but attributed to mag caps being loose—tightened and guns passed

First set of 10 guns have been gallery tested and field tested

7-18-07 gallery test guns will be field tested next (set of 10)

Two more sets of 10 guns will be tested in this manner and data results will be compiled from these 4-test groups on Friday, 7-20-07

Ilion to update Marketing with results of above test.

**New Pump Action Shotgun—Model 887 (LeMay/Ronkainen/Wilkes)**

- Discuss project status and updated timeline
- Discuss Marketing/E-Town meeting results
- Discuss any issues/concerns
- Discuss sample availability

Six test guns to be in test by 7-27-07

Shorten bbl extension (with this process will be able to add a standard scope rail mount)—look at alternative attachment methods of butt stock

Costing to be updated/reviewed to reflect Manufacturing updates with reference to product revisions

To control fore-end movement—proposed 870 style fore-end tube assy.

Also, side walls of fore-end will be thickened to strengthen material

Bottom of barrel will have to be reduced/flattened for clearance (0.010”) for fore-end bridge to work with the fore-end tube assembly

On butt-stock increase wall thickness by 20%--which increases weight—also, add a guide tube for stock bolt attachment—will help with balance point

Action port cover works in conjunction with rotating bolt—reliable action

Receiver insert thickness has to increase by 20% (0.050” thick) to accommodate steel bolt slide guide supports (instead of the current molded plastic guide supports)

Trigger plate latch control added to TPA and latches have had stiffening ribs added (clearance cut must be made in receiver to accommodate above)  
 Proposed bbl extension will be 1.8" shorter on new design  
 15 components need to be modified, and 4-5 components need to be added  
 Need to analyze new costs with updates being proposed  
 Upon thorough examination of above—will update introduction timeline based upon when Manufacturing can incorporate changes and have a warehouse position

#### **New Autoloading Shotgun (Haskin/Olsen)**

- Discuss project status and timeline
- Discuss any issues/concerns

Will explore options with coatings/materials for the action spring tube/follower  
 Marketing wants—"Corrosion control/proof/weatherproof/high-end, top of the line"  
 Waterfowl shotgun manufacturing/design efforts to be geared towards that end  
 EET testing currently and DAT testing to begin 9-19-07 (Three EET guns)  
 Zunda design proposal/review needs to be finalized  
 EET Marketing review end of Sept.  
 30 prototype guns to be built for test guns in E-town  
 Barrel extension difficulties/concerns  
 Feed latch concerns (as a stamping) maybe a machined piece

#### **New Autoloading Rifle (Diaz/Stone/Wilks)**

- Discuss project status and timeline
- Discuss any issues/concerns

Priority list:

Optimize feeding and ejection issues  
 Closely follow part procurement process, inspection, and component build  
 Continue to work with Ilion on manufacturing concerns/issues  
 Also working on magazine spring pressure issues and carrier issues  
 Scheduling concerns being worked out for DAT assembly  
 IonBond coating process for receivers to be reviewed  
 Working with trigger pull issues Vs. Energy (want a 3.5 to 4.5 lb trigger)  
 Sighting options (hi-vis, bateau, etc) may not have a bateau version  
 Planning for 30 DAT guns (need parts)

#### **Product Quality Control Issues (Diliberto/Golem)**

- Discuss recent quality control issues
  - Warehouse rejects on the rise (various problems)
  - Camo product (guns, stocks) issues on the rise
  - XCR camo rifle stock issues

Audits in place to catch issues, bring to employees' attention immediately  
 Closely monitor process (20 guns per day inspection)  
 Quality inspections to be traced through to final and sub-assembly, suppliers, etc.  
 Camo issues being addressed directly with vendors as are overmold stock issues

**Synthetic Short Stock Program (Wilks)**

- Discuss expected implementation for 2008
- Which products specifically
- Coordinate with SuperCell Pads
- Phase in similar to X-Mark Pro??

Changed core on 12 & 20 Ga. stocks

16 week tool time for completion on straight (non-MC) stocks

All phase 1 (MC/750 stocks and Std. LOP straight) stocks approved by 9-01-07  
Ilion will provide Marketing with a timeline for introduction to be coordinated with the SuperCell recoil pads also

**Discuss Synthetic Thumbhole Short Stock Program—870/11-87 (Diaz/Lasley/Wilks)**

- Discuss progress thus far
- Discuss product sample availability
- Production schedule still on track

On track for Spring 2008 product/production

**New Remington “SuperCell” Recoil Pad—“Jones & Vining” (Wilks/Franz)**

- Discuss Progress/Timeline/Implementation into new products
- Phase in process

Production to begin October 1<sup>st</sup>, with limited models and molds

First priority items will be done first, then on down the line in order of priority

**X-Mark Pro Trigger (Perniciaro/Doolittle)**

- Discuss “acceptable” pull weight adjustment range/process
- Current pull weight unacceptable to Marketing
- 2009 implementation of 40X-Mark Pro update

Looking to lower acceptable ranges from 3.5lbs to 4.5lbs

Will do drop testing at 3lbs range ASAP

Exploring options of testing guns semi-assembled (minus stock)—two-fold benefit, removes chances of marring stocks at assembly, and gives a “true” trigger pull weight

40-XMP trigger—conduct DAT testing in 700 SPS Varmint 7-27-07

**Elast-a-Tag Project (Lasley/Trull/Perniciaro/Shumway)**

- NEW Loop design submitted
- Need approval on new design
- Timeline for implementation

Will proceed with common “small” loop design 5.75” tag

Production will implement into packaging when current supply is depleted

**Plastic "common" Shotgun case Project (Haskin)**

- Discuss progress
- Timeline for implementation

Waiting on final dimensions for MPAS guns

Spring Program 2009 implementation for 1100 Competition, 1100 sporting series,  
1100 G3 also

**NOTE: Revise NPP for Sporting guns to include "Sporting xx" on shooter's  
right laser between TPA pins**

**Also revise Model Seven NPP to include black bolt plug and floorplate**

**Update descriptions also**

**Update Model 887 NPP's with nomenclature on Intranet**

**Update Model 11-87 Sportsman NPP's on Intranet**

**Communicate with Mayfield on Elasti-tags**