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REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

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FIREARMS RESEARCH DIVISION

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P.H. HOLMBERG

NEW BOLT ACTION RIFLE

As a result of our recent meeting with R&D and Production, the following is my interpretation of our objective and, more importantly, the desirable features/model requirements.

OBJECTIVE

Replace current 700 HDL, Varmint, and Left-hand Specials with new bolt action rifles having demonstrable consumer-perceived value-in-use features and completely new styling at minimum cost and capital investment.

Specifically, the above objective can be broken down into four major categories. They are as follows:

1. Styling -

All-new look; i.e., stock, receiver, fore-end, barrel, trigger housing, etc.

2. Internal mechanical features -

Mechanical changes should only occur if needed to improve a current known deficiency or if providing demonstrably-perceived consumer advantage.

3. External Features -

Again, these features should represent consumer-perceived advantages such as scope mounts, external adjustable triggers, repositioning of safeties, etc.

4. Minimum Cost and Capital Investment -

In this area, we would hope to produce the new bolt action rifle at a cost equal to, or lower than, our current model; however, additional cost for a specific development may be incurred and

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accepted because they can be recovered in selling price. As for capital expenditures, if, in fact, we can develop this new gun in conjunction with the firearms modernization program, it would be most timely. Our basic goal is to introduce this new gun in the 1985 model year; however, if the situation requires, we could go as long as the 1986 model year.

Following are the desirable features/model requirements, along with some idea of what they mean, either to us in manufacturing or to the consumer.

Flat-bottom Octagonal Receiver

1. Easier to customize.
2. Reduce weight.
3. Narrower - allows narrower stock configuration.
4. Relates to trade likes - flat bottom.
5. Visually different.

Integral Recoil Lug

1. Consumer-perceived added strength.
2. Improved uniform appearance between barrel and receiver.

Integral and Standard Scope Mounts - (Integral preferably better than competition)

1. Flexibility in mounting systems.
2. Consumer-perceived value - windage and elevation adjustments.

Anti-bind Bolt

1. Consumer-perceived smoother action.
2. Reduced lateral motion of bolt through entire stroke.

Front Lock - (two-lug system (no change))

- *1. Possibly three-lug system.

* Low priority Adv.

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Short and Long Actions

1. Provide actions for cartridge - although not necessary but common in the industry.

New Bolt Stop - Release

- *1. Improve quality - appear stronger.
2. Possibly relocate.

Block Trigger and Firing Pins

1. Dual safety switch.
2. Reposition.
3. May be 3 position.

Bolt Lock

1. Separate switch - not mandatory.

Cocking Indicator

1. Shows red when cocked.

Fire Control

- Adjust-ments
1. Pounds pull - external - fail safe - down to 3 lbs.
 2. Over travel - external - safety limits - if a factor??
 3. Change sear to wrought iron.
 4. New fire control - desirable.
 5. Standard trigger.

Barrel

- *1. High gloss - hammer marks - aesthetics - looks different.
2. Lt. weight contour - lighter weight - new contour.
3. Target crown - protects end of barrel - maybe accuracy improved.
4. Recoil reducing muzzle - & reduction in recoil.
- *5. Stainless steel - option.
6. Clean barrel - no sights or holes.

Low priority Adv.
Cost factor possible.

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Feed System

1. Unload with bolt open.
2. No-bind follower.
3. Rotary magazine - better feed - no angles - more rigid receiver.
4. Magazine - 3 shots versus 4; and 4 versus 5 shots.
5. Jeweled follower.

Bolt

1. Claw-type extractor - more guts, heavier looking, etc.
2. Restyled bolt handle - styling - looks. Distinctive but functional.
3. Two-lug system - possibly 3.
4. Easy lift - no more than present 700.
5. Jeweled - aesthetics.
6. Reduced locked time - would not sacrifice for easy lift.
7. Restyled bolt plug - aesthetics.

Stocks

1. Walnut - appearance.
2. Cut checkered - 20 lpi. - full - scratchable fore-end.
3. Recessed slug swivel studs - styling.
4. Cast off and toe out - similar to Hygrade custom stocks.
5. Skeletonized butt and grip cap.
6. Epoxy bedding - strength.
7. Emmons stock - slim down grip, etc.
8. Medium gloss.
9. No spacers.

During our session, we also discussed the need to conduct market research on potential new bolt action rifles. Following are a couple of areas where we discussed specific testing. I'm sure that as we proceed, others will become obvious.

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Test Guns

1. Barrel - hammered high gloss versus no hammer high gloss.
2. Barrel contour - new versus straight or current.

Please feel free to update this list and the objective any way you see fit. We do need to expeditiously confirm in writing our discussion with R&D. In addition, we should include in this document our version of performance specifications, i.e. accuracy, weight, etc.

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