Mike Keeney

From:

Sent:

Santillo, Michael R. 08/26/1998 02:40:32 PM Rabbia, James A.

To:

CC:

Diaz, Danny; Keeney, Mike; Mead, Joseph P.; Lemay, Michael K.; Parkhurst, James L.; Swanson, Jeffrey C.; Zamoch, Walter F.

BCC:

Subject:

Meeting Minutes - 8/25/98



Subject to Protective Order - Williams v. Remington

MEMORANDUM

DATE: May 24, 2006

TO: Jim Rabbia

FROM: Mike Santillo

RE: M/710 Rev 2 High Spot Estimate Review meeting -

8/26/98

CC: J. Mead, D. Diaz, M. Keeney, J. Swanson, W. Zarnock, M. LeMay, J. Parkhurst

The following is a synopsis of the brainstorning marring held on August 25, 1998, in Ilion. The premise of the meeting was to review the original high-spot estimate done by Ilion on 6/9/98, identify potential cost savings and to review the proposed design concept for changes. The goal is to lower the manufacturing cost to the target range of \$100-\$106. Below are the items discussed with significant points pertaining to cach. Each item is then summarized with a path forward.

Barrel - Summary

- . Cold Forge of rough chamber and or locking fugs as a possibility
- Concern expressed around selective Heat Treat of breech end Needs Clarification
- Defined secondary machining of locking notebes
- Elimination of threads û hub end Press fit with receiver
- · No spin polish matte finish (Express Fibish)
- No finish heading Interchangeable bolts @ Ass'y
- Mayfield to quote tratton rifling & machining for product differentiation

Path Forward: thon is to provide a rev. 2 high spot estimate to machine the barrel complete with the afore mentioned design changes, including capital money required.

Receiver - Summary

- After design to round receiver with straight thru-hole to accommodate use of 1010/1018 steel tubing w/ 2005 total tolerance LD. - No Tang
- · C'bore breech out to press fit on barrel
- Possibility of need for secondary staking of receiver to barrel To be determined by design acceptance lesting
- Defined secondary machining operations to be performed:
 - Magazthe well opening
 - Ejection Port same as M/7600
 - · Cam Screw Hole



Scope Holes

Receiver (continued)

- Discussed alternate processing Laser lower cycle times: cleaner cuts, efc.
- Integration of tang with receiver pinned/screwed to receiver, combine with stock mold
- · No polish matte finish
- No heat treat

Path Forward: Ilion is to provide a rev. 2 high spot estimate to imposine the receiver complete with the afore mentioned design changes, including capital money required

Bolt Assembly - 2 Piece Bolt Body Ass'y - Summary

Bolt Plug

- Synthetic mold Textured for matte limith
- Need to evaluate strength of High Task Force samples with intentional abuse testing Dave Findlay
- · Need qualification to bolt body ass'y

<u>Path Forward:</u> Then is to provide test results to determine if synthetics can withstand pressures in order to determine feasibility.

Bolt Body

- Design to be uni-diameter with straight thru-hole to accommodate use of 1010 steel tubing -No heat-treat
- Defined secondary machining of cantent, cocking notch & bolt plug recess
- No polish matte finish

Bolt Head

- 3-lug lock-up system
- Defined secondary machining of lugs integrating 45° camming surface
- Feasibility of Seiko extraction system
- Possibility of all both heads unachined to magnum diameter & inserted with snap spring for regular cultivity. Only used in conjunction with Sciko extraction system
- Need qualification to bolt body ass'y Press fit & pinned

Bolt Handle

- Screw machine parties. Casting
- Method of attachment to bolt body ass'y dependent upon handle type and design

Path Forward: [lion is to provide a rev. 2 high spot estimate to machine and assemble the bolt assembly complete with the screw machined bolt handle screwed to the bolt body assembly, including sapital money required.

Fire Control - Summary

- Rev. I high spot estimated cost increase due to tight tolerancing, nickel tellon coating of components, MIM vs. PM components
- Possible alternatives include: Current M/700, M/700 synthetic housing (1 or 2 piece) with current internal components, Complete re-design (OW2)
- Integrate with tang & attach to receiver To be determined by design
- 3-position safety using cautilever spring, no detents

Path Forward: Ilion is to provide a rev. 2 high apot estimate of a synthetic housing with current components integrating the tang, including capital money, required.

Stock - Summary

- Integrate tang/fire control ass'y To be determined by design
- Integrate tang & Fire Control To be determined by design
- · Use of alternate material
- · Butt Plate vs. Recoil Pad.
 - Butt Plate for all ?
 - Recoil pad for use on magnums only #
 - · Can mold be adapted to provide both ? Need definition

Path Forward: Ilion is to provide answers as to the ability of incorporating proposed design changes, including capital money required.

Magazine Box - Summary

- Current Plan is to add-use the M/7600 with possible replacement by Met-Gar in the future
- Integrate box to stock as in XP-100 Linkage system
- 3-position safety using cantilever spring, no detents

Sights - Summary

- Current Flan is to add-use the M/700 with future replacement by synthetic components
- Use Savage system as a guide for synthetics

Path Forward: E town is to provide direction for the sight system.

