

Mayfield Visit, Dec. 6, 1999

Attendance: Mayfield -- M. Golemboski, J. Zajk, S. Truax, G. Helmer  
R&D -- D. Diaz, E. Schoppman, M. Keeney

**M/ 710 Review:**

Stock Grip Cap - Mayfield to investigate alteration of current M/700 grip cap mold to allow for common usage of grip cap for M/700 and M/710. If alterations are not possible, the development of a M/710 specific mold will be required.

Bolt Handle Assembly - Modification of the bolt handle pin will be required to eliminate burrs generated while pressing the pin into the bolt handle. The bolt body clearance cut on the bolt handle will be altered to .690" dia. to improve the braze characteristics.

Receiver and Bolt Body Drawings - Alterations requested by Mayfield to improve design intent relative to location and inspection of the components.

Magazine Bottom and Follower - The two components will be molded in a family tool, thus common material specifications are required.

Magazine Box - R&D will contact Deer Park Stamping to review possible coining operations to remove sharp edge on underside of feed lips. Drawings will be updated following the determination of resultant geometry.

Latch - Mayfield will quote as a Powder Metal component as back up to current synthetic direction. Based on cost, the group will decide if a metal latch is feasible. Concern is that the revised latching surface of the box may deform a synthetic latch. R&D to review synthetic material selection.

Stock Bushing Assembly - Mayfield to review stock bushing assembly and advise if there are design issues with current system.

Receiver Insert - Inspection report, program and fixture due this week, following setup, current receiver inserts will be inspected. Tool corrections to be based on inspection data and then trial quantity (1000-5000 pcs) of receiver inserts will be ordered.

Bolt Plug with ISS - R&D to generate exploded view of assembly. Mayfield to locate ultrasonic welder and proceed with assembly process development. Mayfield to investigate alternative processes to manufacture the bolt plug, such as investment casting.

DAT Schedule - Design Acceptance Testing of 30-06 caliber firearms is scheduled to begin mid February, based on delivery of receiver and bolt body tubing. Mayfield vendors will be used to provide as many of the components as possible based on delivery schedules. Mayfield to investigate procurement of MIM material blanks for machining of firing pin heads. Final assembly of the DAT firearms will be in Mayfield. Following successful completion of the 30-06 DAT, the 270 DAT will follow in April.

**Bolt Action Rimfire Review:**

R&D presented the staffing and program direction for the Bolt Action Rimfire introduction. The first phase of the program will be to develop and verify a design concept. Upon preliminary verification of the design function through initial prototyping, process development and costing will follow. The objective is to have a detailed schedule by the end of January 2000.

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