

Status Report
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 Senior Research Engineer

From November 3, 2003 to December 2, 2003

241315 (MIM M/870 Receiver)

- Prepared for trial date of December 2, 2003 in St. Louis, MO. Materials were collected and reviewed in preparation for taking the witness stand during the trial on behalf of Remington in a civil suite filed against Megamet, Megamet LLC, Megamet Solid Air, Chris Brasel, and Nooter Corporation to recover lost monies which were paid to Megamet in October 2001 for which no work was completed. The trial occurred on December 2, 2003 in Clayton, MO.
- The defendants did not show up for the trial and Remington was awarded the case by default of the defendants. I was sworn in and gave testimony in the damage awards hearing for the court and a judgment of \$32,342.00 was awarded to Remington against all 5 named persons/entities in the lawsuit.
- The courts decision will stand but may be re-opened by the trial judge if a compelling argument is presented by the defending attorney within 30 days of verdict. If this does not happen, the courts decision becomes binding and our attorney (Steve Schwartz of Proctor & James, St. Louis, MO) will seek to retrieve the monies owed by order of the court through first a letter summarizing the judgment and then other means if necessary. It is the opinion of Steve Schwartz that Remington does NOT contact any of the named defendants during this 30-day period.

241328 (California Department of Justice Testing)

- Testing was completed of the M/870 (common) aluminum and synthetic, and the M/597 fire-control per the current CA DOJ standards. The testing was completed at USITL (United States Testing Laboratory) in Wichita, KS on November 12, 2003. The M/597 fire-control failed the testing protocol during the saw test. Both the M/870 aluminum and synthetic designs passed the testing protocol and the design is now a CA DOJ certified firearms safety device. If Remington chooses to follow-through with this project, the 2-dot design will be posted on the CA DOJ website as the common fire-control containing the CA DOJ Approved ISS. One other option is to not list the device on the website. This decision does not change the outcome of the test and this design has been passed and is grandfathered in as a CA DOJ approved device.

241294 (Barrel Vibration Study)

- Mike Pendleton is currently working on the electronics for the measurement system. He has indicated that they should be ready to try early 2004.

241306 (New Gas Shotgun)

- Weekly teleconference with the manufacturing team in Iliion, NY, and marketing in Madison, NC.
- Heat treat of components as they become come in on a near daily basis.
- Samples of steel and composite ribs have been requested from Ilion in order to commence on testing to develop strength criteria for the composite rib design. These samples have still not been received to date.
- Ed chose a weave pattern that was very difficult to find. The material was found and is currently being manufactured into a receiver shell. The shell is expected to be completed in early December, just under the wire for the marketing evaluation of the M/2100 (December 10 in Iliion, NY). The expected attendee's will be Bunting, Mead, Haskins, Trull, Millner, Bristol, Cahoon, and Pernaciano.
- Currently evaluating a fitted M/2100 sear from the first shooting EDT samples. The failure seems to be more related to the design and function causing an overload condition than the material characteristic at this time. A full report will follow in early December.

241383 Youth M/1100 Stock & Weight Reduction

- No consultant was found for a reasonable price (~\$50,000). Based on a Human factor design handbook data tables the 20Ga forend has been altered and is being modeled to fit a 12-14 year old boy based on the assumption that our current forend fits an adult shooter perfectly. This will also be done for the 20Ga buttstock and a sample will be fabricated, pending available money, in early 2004.

241384 Non-Traditional Advanced Rifle Stock

- No Progress – project on the chopping block.

241314 M/710 Magnum

- No issues after the blow-up testing issues were addressed in October.

241395 6.8mm SPC

- Performed microhardness testing on several samples identified by G. Dennison as potential primer leak samples. The samples were found in and around the manufacturing processing area for the 6.8mm cartridge, which had apparently fallen off of the conveyor system. A total of 20 samples were examined.

241258 M/504 (New Bolt Action Rifle)

- Completed the first pass of checking the material block on the prints in preparation for the transmittal. This resulted in over 90% of the prints being corrected to clarify the material and heat treatment and to be consistent from print to print. This was supposed to be done several months ago, but was apparently not completed. This process, combined with having to update J. Stone's spreadsheet required approximately 3 complete days of work.
- Have been dealing with Xrims so that he understands the prints have not changed, but been clarified to reflect the actual material, heat treat, and color.
- Ordered the referenced AMS88 specifications that were used in the material block on the prints. These specifications were found to be geometrical specifications and did not clearly specify the material or heat treat of the parts. The prints will be changed to accurately reflect the material and heat treatment.

Other Duties / Support

- Completed microhardness testing on 20 samples of .454 Casull cases (complete hardness profiles) for G. Dennison.
- Completed and EDS analysis and relayed the results via telephone to J. Urbon in Ilion. This was done to verify that the material was AISI 4340.
- Prototype coloring and heat treatment of the dovetail stock attachment system for the door storming 8" M/870 shotgun for R. Murphy. Issues around the ability to color the parts have arisen due to marketing specifying the material and coloring process without consultation of the materials engineers. Marketing (R. Schoppman) expressly told R. Murphy that the parts must be manufactured from 420 stainless steel and then Phosphated. Unfortunately, this is impossible and other matte-black coating techniques are currently being investigated.

Subject to Protective Order - Williams v. Remington