

28 May '92

To: Ken Soucy  
From: Tom Powers  
Subject: Monthly Report for May '92

M/OU Barrels & Vent Rib

The latest proposal for side ribs features a tab at the muzzle end of the side rib for engaging a recess in the rear face of the front barrel spacer. The ribs will be bowed to insure a tight fit to the barrels, when assembled. The rear attachment will be a single rivet which will go through both side ribs and a projection on the front face of the rear barrel spacer. The side ribs will be assembled after color. The appearance of this design is very similar to that of the current one-piece spacer. This design is 1/4 ounce lighter than the previous one. Since the improperly heat-treated monoblock failed during the last ultimate strength test, the integrity of the new heat-treated barrel profile has yet to be confirmed. The sample quantity of AISI-4140R will not be available until the first week in June. This will be used for prototypes and process development.

M/11-87 Sporting Clays

No change on new choke development or General Schwarzkopf's gun.

M/11-87 Machined Gas Seats

Complete.

M/11-87 European

Testing of the revised action bar sleeve indicates we can save 2 1/4 ounces without significantly affecting bolt velocities or endurance life. The special European ammunition for bolt velocity testing has not arrived. Prototype Premier stocks and fore-ends, made from Butternut, are available for testing. A weight savings of seven ounces is possible with Butternut. Additional weight savings are possible if we adopt the Sporting Clays magazine tube and fore-end (made from Butternut). By going to the new O/U barrel profile we could save even more. Total weight would be approximately seven pounds.

M/870 & M/11-87 Upgrades

We will issue a new barrel assembly drawing to account for processing procedures.

M/870 & M/11-87 Magazine Follower

The prototypes made with the thicker-wall/higher-impact-strength Delrin, which initially tested well, have since proved unacceptable. One cavity of the mold will be revised to produce parts to the latest design (internal geometry which prevents the duck plug from impacting the mold gate), for acceptance testing. Prototypes should be available by the end of June.

Detachable Recoil Pad

No change.

M/870 Mil-Spec 3443E

The Army has not decided who will get the contract.

M/870 Action Bar Lock

Prototype bar locks with the tip geometry similar to that of the M/11-87 disconnecter will be assembled to trigger plates by month's end. These assemblies will be tested in guns that demonstrate the bar/bar-lock reversal characteristic.

Turkey Choke

Six different choke tubes were recently tested. Three of these are competitors, two are proposed Remington redesigns and the last one a current design. Although testing is incomplete, the following features of the new tube have been decided: the portion of the tube outside the barrel will be knurled; the constriction will be approximately .670 and there will only be one set of wrench slots, which will be twice as deep as the current ones. A revision to the owner's manual has been requested to demonstrate the proper installation and removal of the new knurled tube. This will cover both hand and wrench methods. A 10GA. version will not be required.

20 Ga. Rifled Barrel

Samples in Lonoke for testing, to be complete by the end of June.

Shotgun POI

This will be resumed now that the new Light Contour barrels are in production.