

October 30, 1993

TO: Dick Jackson
FROM: Jim Ronkainen

SUBJECT: October Progress Report

M/700 DM (Detachable Magazine)

Phase II of the M/700 DM Trial and Pilot (T&P) for the standard caliber rifles was built and tested the second week of October in the R&D Test Lab. Overall, the testing was successful, both in the function of the guns and pointing out areas that need attention. Based on the phase II testing:

- o the magazine spring is being modified to increase load on the rear of the magazine follower to ensure the feeding round is always against the feed lips of the magazine
- o minimum bolt/shell coverage levels at assembly are being set
- o the criticality of holding print tolerances for the parts was re-emphasized

All of the above changes will be in place for phase III of the T&P, which will be run early next week.

Three different magnum magazine box designs to prevent the "jumps magazine" malfunction were tested the end of the second week in October. All three performed an order of magnitude better than the previous design, with option C performing the best overall. The vendor is making the blanking tool for option C and will deliver first samples from the production tooling by 11/12.

The short action prototype magazines were to be delivered on 10/29, but will not be ready until 11/3. Design acceptance testing for the short action will begin as soon as the boxes arrive.

The long and short action trigger guard designs have been updated for the new draft on the inside of the magazine well and for the new form of the trigger guard in the front guard screw area. Parts from the revised tooling will be available 11/8.

M/700 Synthetic Stock

No change since last month.

M/700 Classic - 6.5x55 Swedish

One of the rifles from the Writer's Seminar would allow cartridges to stick in the bolt face. The rifle were returned to Ilion for further examination and testing.