

To: JWB

FEM

FHS

From: RSM

Subject: New Bolt Action Development

In order to complete the development of this rifle and meet all of our design goals we must complete the development of the firecontrol and magazine box in addition to the testing of critical components and assemblies. A partial listing of key questions yet to be answered as well as the responsibility and timing follows. Due to the problems we have encountered with the exposed component firecontrol we will parallel the firecontrol development with the addition of the improved M/700 design.

We are currently behind schedule and must be prepared to work the hours required to meet these completion dates and avoid any further delays. We will meet informally on a daily basis and formally every Friday at 1:00 in the research conference room.

Firecontrol - Exposed Component

- What must we do to meet the drop test and jar off specifications?
- Can a spring (or springs) be designed to provide the required trigger pull and range of adjustment?
- What can be learned from ^{a review} existing test data and the Winchester system?

Recommend Spring/seat configuration: 4/10
Responsibility: Fred, Randy

Bolt Lock/Safety

- How can Safety Switch be repositioned to a side tang location?
- How can the safety be positively detented?
- What must be done to the safety button configuration for easier operation?
- What cam configuration is required for smooth bolt lock operation?

Marked up prints complete: 4/17
Responsibility: Fred

Firecontrol - Improved M700

- What must be done to incorporate the bolt lock and trigger block designs into one firecontrol?
- What redesign is required to bring the trigger pull adjustment out of the stock?
- What must be done to the safety and linkage?
- What will the trigger spring (or springs) configuration look like?
- What must be done to the NBAR receiver to accommodate this firecontrol?

Marked up prints complete : 4/19

Responsibility: Fred

Detachable Magazine Box

- Will the present latch reliably hold a magazine?
- Will the box/follower combination feed?
- Will the follower orient cartridges correctly and reliably?

The above three questions will be answered 1 week after follower completion.

- What could be done to improve the latching system?

Marked up prints complete : 4/12

Responsibility: Randy

Component Testing

Components to be tested:

- new extractor
- competitor's extractors
- firing pin assembly
- scope mounts

A testing schedule will be complete 4/10
Responsibility: Skip