

January 2, 1989

To: T.C.Douglas

From: R.S.Murphy/T.G.Bauman

Subject: December Monthly Report - NBAR

Little has been done on the NBAR in the previous month save for the development of a schedule outlining an ambitious path forward and some conceptualization of firecontrol, magazine latch and scope mount systems. Tom Bauman's time has been devoted entirely to the SP-10 Mag. and my time has been divided between the Parker and the Single Barrel Trap Gun.

The schedule that we developed follows and is based on a number of assumptions. Among them:

- o Tom Bauman's involvement with the SP-10 Mag. will be "limited" in 1989.
- o My involvement with the Parker and the SBT will not cause any conflicts.
- o The Model Shop and N/C group can supply timely turnaround of prototypes.
- o The Test Lab can supply timely turnaround of required testing.
- o The firecontrol is the critical path item to be developed. This assumes that the untested magazine box designed by Dick Jackson will feed properly.

I described this schedule as ambitious since it presupposes the best case scenario for each of these assumptions. Tom and I will try to adhere to this schedule but it is important that we all realize the potential stumbling blocks.

NBAR Critical Path Schedule

Firecontrol

First Design	Mar. 1 89	2 mos.
Prototype (3)	Apr. 1 89	1 mo.
Engineering Evaluation	June 1 89	2 mos.
Redesign	July 1 89	1 mo.
Quotation & Economics	Oct. 1 89	3 mos.
Prototype (10)		
- Vendor Parts	Apr. 1 90	6 mos.
Test & Redesign	May 15 90	6 wks.
Build 30 Design Accept.	Feb. 15 91	9 mos.
and Trial and Pilot		
T & P Testing	Apr. 15 91	2 mos.

This is a list of the NBAR features, (that represent our design goals), in order of priority.

- o Detachable Magazine Box
- o Improved Firecontrol
 - No Connector
 - Two Trigger Pull Springs (low spring rate)
 - "Sealed Firecontrol"
 - Balanced Trigger
 - Trigger and Sear Block
 - Not Retrofittable to M/700
- o Bolt Lock w/override
- o Integral Scope Mounts
- o New Extractor
- o New "Custom Shop" Barrel Contour
 - Mountain Rifle Crown
- o Improved Bedding System
- o M/700 receiver, cosmetically altered
- o New Wood Stock

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NEW BOLT ACTION RIFLE - Bauman/Murphy/Martin

Fred Martin will be working on the implementation of the SPC program. Tom Bauman will now be the Team Leader working with Randy Murphy. Fred will act as a resource to the program if possible. A meeting was held on October 31 with the old NBAR team, the new NBAR team and the Litigation group to get the new players up to speed as well as redefine the NBAR program goals. The insight of the legal representatives present was useful as we outlined the following program goals:

- o Detachable Magazine Box
- o Improved Firecontrol
 - No Connector
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 - "Sealed Firecontrol"
 - Balanced Trigger
 - Trigger and Sear Block
 - Not Retrofittable to M/700
- o Bolt Lock w/override
- o Integral Scope Mounts
- o New Extractor
- o New "Custom Shop" Barrel Contour
 - Mountain Rifle Crown
- o Improved Bedding System
- o M/700 receiver, cosmetically altered
- o New Wood Stock

Testing of a patented new technology rifle barrel in a joint program between Remington and D.C.Brennan Firearms, Inc. has been completed. The Brennan technology claims a 25% increase in accuracy with reduced recoil. However, test results show no significant improvement over our current design (at the 95% confidence level). The final report is complete, and D.C. Brennan was notified as well as sent a copy of the report. D.C. Brennan requested that Remington return their property, which has been done.