

S. M. ALVIS

June 3, 1963

W. E. LEEK

**PRESENT STATUS OF DESIGN ACTIVITY PERTAINING TO ITEMS LISTED IN THE  
MINUTES OF THE LAST OPERATIONS COMMITTEE MEETING**

**16 & 20 Ga. M/1100**

I believe that we have overcome the problems of failures to blow back with plastic loads in these two gauges. Newt Reed is on vacation but has left the two guns design-wise in the proper condition and they will be tested this week if we are not interfered too much with the M/1100 film program that is scheduled for June 3rd.

In addition to the regular 20 Ga. we are also testing a 20 Ga. Magnum. This model will involve a rubber recoil pad, and a chamber to accommodate the 3" shells and possibly the heavier inertia weight. Also, I think the orifice dimension may be altered slightly from the standard 20 Ga. size.

**M/870 Shotgun**

The recoil reducing mechanism we had designed originally for this (the designer being Dan Mead) proved to be unsatisfactory. We are now awaiting the opportunity to evaluate the system on the computer before proceeding further.

**M/760 Lever Action**

Several faults in Dan's design have been discovered and we are not actually blaming Dan for this, but there were 2 or 3 items which several of us had commented on and Dan had a chance to change to provide adequate strength in this mechanism. The transfer of information and know how to the new designer, Paul Nasypany, is now in progress, and Paul is at the present time making some of these changes.

Our investigation on the formed aluminum trigger plate is still in progress, this being done by Mr. Reiner. The last we heard from him good progress was being made.

On the Model XP-100 Pistol we made up an experimental model utilizing 75ST alloy for the receiver. This was tested and found to be satisfactory, even though we had plugged the barrel and subjected the action to extremely high pressure loads. The reason for initiating this combination was to provide us information in case a customer subjects it to the exceptionally heavy weight of this pistol; this would be an alternative and we wanted to be provided with advance information. However, I hesitate to recommend a change since the present pistol is very well received. The other problem which might cause difficulty for Remington in the future is that some individuals might re-barrel one of these actions in a heavier caliber, especially in the rifle calibers which might be disastrous when using the 75ST alloy for the receiver. No further work has been contemplated in this area.

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