

CONFIDENTIAL

To: H. Munson

From: Michael Keeney

Date: 11/21/91

TOPIC: NOVEMBER 1991 PROGRESS REPORT

CONFIDENTIAL

o PROCESS DEVELOPMENT/RESEARCH OF NBAR CONSTRUCTION:

The basic components of the current design concept have been developed, assembled and tested. The rifle successfully completed firing four standard test rounds and a high pressure load, estimated to be between 140-150 Ksi. To further test the strength of the proposed action, the next test will entail the obstruction of the bore and the firing of a high pressure load. The results of this test will allow comparison of the proposed action's strength to the current M/700. The test action has been machined and is awaiting barrel lug assembly. It should be ready for test by 11/27/91.

John Remington has been developing a prototype stock that will be representative of a synthetic stock for the action. This is being done to fully visualize the appearance of the new rifle, since it differs significantly from standard bolt action rifles. The stock will be constructed from wood but painted to appear synthetic. The action will have a glass bead blasted black oxide finish. The assembly should be completed by 12/06/91.

To fully realize the manufacturability of the concept, a new process to rifle the barrels would be required. This process would involve an Electro-Chemical Machining (ECM) operation to produce the rifling. This process had been investigated previously without definite results. Currently, ten M/700 .308 Varmint rifles have been built with ECM rifled barrels. The ten rifles will be evaluated for endurance and accuracy using ten current M/700 .308 Varmint rifles as a control group. The testing should begin during the first week of December.