

TO: KEN SOUCY

FROM: MICHAEL KEENEY

DATE: 04/28/92

TOPIC: APRIL 1992 PROGRESS REPORT

o PROCESS DEVELOPMENT/RESEARCH OF NEAR:

A quote from Ingersoll Gmbh to develop the EDM operation was received on April 23, 1992. The development process would include electrode wear evaluation, cycle time optimization and repeated automatic operation of the process as would occur in a production atmosphere. The blanks will be shipped to Ingersoll by May 15.

Four test receiver blanks have been delivered to the tool room for machining of the locking lugs. Once completed, they will be assembled and subjected to destructive testing. The objective of the tests will be to evaluate the locking mechanism. Testing should begin by June 1, 1992.

A contingent process utilizing a hammer forging operation is under development. The forging operation would produce the external geometry, an undersized smooth bore and the internal locking lug geometry. Although an EDM operation would still be required, the cycle time would be greatly reduced.

o M/7400 OPERATING HANDLE/BOLT CARRIER ASSEMBLY:

Five test guns have been assembled, gallery proof and function tested. The guns have been delivered to the R&D Test Lab.

o M/7400 M.I.M. OPERATING HANDLE:

Four test guns are currently under endurance evaluation at the Lonoke facility. Two of the guns have fired approximately 2000 rounds without visible failure. Testing should be completed by May 29, 1992.

o XP-100 WOOD STOCK:

Process Engineering submitted a complete high spot estimate on March 27, 1992. Economics on the project should be completed by May 13, with submittal of the project for approval to follow.

Two M/700 rifles were submitted to the Test Lab for dry cycle endurance testing of aluminum bolt plugs. Each rifle will be subjected to a minimum of 10,000 dry cycles. If the performance is acceptable, the sample of XP-100 guns produced for the July preliminary design evaluation test will include aluminum bolt plugs. The receivers for the preliminary test are currently in production. Barrel blanks have been delivered to the Custom Shop.

Quotes have been received for all purchased parts except for the stock. Purchasing has received one of three quotes requested for production of the stock. Lou Ferriera has received prototype packaging, the quote is expected by May 1, 1992.

The drawing package is currently being completed. Transmittal will be submitted by mid-July with trial and pilot scheduled for October.