

TO: KEN SOUCY

FROM: MICHAEL KEENEY

DATE: 01/20/93

TOPIC: DECEMBER 1992/JANUARY 1993 PROGRESS REPORT

o PROCESS DEVELOPMENT/RESEARCH OF NBAR:

The experimental forging mandrels were received on Jan. 8, one of the three had to be returned due to nonconformance to the print. The alteration is expected to be completed by Jan. 27. The Tool Room has completed the receiver blanks and is currently working on the GFM collet. If the mandrel and collet are completed as scheduled, the initial forging should take place by Feb. 5. Although computer modeling of components has been continuing, the concepts are based on the ability to forge the internal receiver geometry. Once our ability to forge the receiver is confirmed, the project will become more dynamic. Although Process Engineering is aware of the basic design and process intentions, a thorough design and process review will begin.

A trip to Carrier Corp. of Syracuse, to review the performance of a "Nobur" recessing tool, is scheduled for Jan. 27. Nobur has quoted their standard internal recessing tool for the receiver lug facing operation. The tool converts axial translation into radial translation while piloting on the internal diameter, thus reducing cutter deflection and vibration. Carrier Corp. currently utilizes the units in their daily production. If the units perform as expected, orders will be placed for experimental units.

The Tool Room has completed the RECBAR's required to build the Focus Panel guns. John Remington will have completed the first stock by Jan. 22. Marketing has not determined if a second stock will be required. It appears that all Research obligations will be fulfilled for a February Focus Panel.