

TO: KEN SOUCY
FROM: MICHAEL KEENEY
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TOPIC: APRIL 1993 PROGRESS REPORT

o PROCESS DEVELOPMENT/RESEARCH OF NBAR:

The design and detailing of the assembly components is continuing. Detailed drawings of the parts required for the focus panel have been submitted to the Tool Room for build. John Remington and I have developed two-dimensional representations of the two stock configurations required for the focus panel. Full scale outlines have been printed for John to use as templates. The use of these outlines will greatly reduce the stock development time. John should receive the metal and begin development of the first stock by May 7, 1993.

There have been significant advances in the hammer forging operation. As a result of previous forging tests, the mandrels were redesigned to improve the flow characteristics of the forged material. Three receiver blanks and two full length RECBAR blanks have been processed through the first forging pass. Upon sectioning a receiver blank, it appears that the alterations have improved the flow characteristics as desired. The blanks will be processed through a stress relieve heat treatment and then the second forging operation, which should be completed by May 11. Once completed, the receiver blanks will be used for process evaluation and the two RECBAR blanks will become the focus panel samples.

o XP-100 WOOD STOCK:

Due to processing difficulties, the trial and pilot has been rescheduled for completion by the end of June. Bishop is currently refinishing the Laminate stocks, with the first shipment expected by May 13. Samples made to the new master stock are expected by the end of May. The remaining R&D obligation involves design acceptance/trial and pilot testing and any drawing revisions required as a result of the testing.