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TOPIC: SEPTEMBER 1992 PROGRESS REPORT

o PROCESS DEVELOPMENT/RESEARCH OF NBAR:

Due to machine time scheduling at the Ingersoll Gmbh facility, the second EDM evaluation has not been completed. An expected completion date is not available at this time.

The preliminary evaluation of the proposed tri-lug locking system has been completed. The evaluation included a sequence of firing progressively higher pressure producing cartridges. The first step was to fire a standard proof load, no deformation was observed. The second step was a high pressure load that would ensure blow back through the primer pocket. Although the bolt could not be opened by hand, a tap with a lead hammer rotated the bolt and allowed opening of the bolt. No visual failure was observed, upon further inspection it was noted that the headspace was increased by approximately .003", but remained within specification. Each component was magnafluxed and reassembled prior to the final step. The final test had the bore obstructed with three bullets, a high pressure load chambered and the trigger pulled. Upon inspection, the bolt was locked, the bullets had exited through the muzzle, but no mechanical failure of the receiver was visible. The test assembly was sectioned through the locking area for inspection of the internal condition. There was no apparent mechanical failure of the internal locking mechanism.

To further develop an understanding of the market place and the customer perception of the NBAR, Marketing has tentatively scheduled a focus panel for November, 1992. Three prototype guns are currently under development.

Development and modeling of components has been continuing. The current list of parts modeled include a "Remington Scope Mount System", recoil/bedding inserts, the continuous barrel and receiver, the bolt body assembly and a claw style extractor.