

To: T. C. Douglas

April 30, 1992

From: A. R. Baszczuk

*AR*  
APRIL PROGRESS REPORT

SHOT CHARGER DEVELOPMENT

The Simplex prototype shot-charger with new design plunger springs and hardened steel feed-tube shrouds tested well on the 526 Simplex Loader. Approximately 200M 10 and 12 Ga. "T" and "TT" steel shot shotshells were loaded without any evidence of premature wear or spring failure. Overall performance was satisfactory producing EV's within 2 pellets. Several feed-tube jams, due to irregular shaped shot, were experienced. Samples of the irregular shaped shot have been collected for review with our suppliers to determine how this can be corrected.

ROTARY CAM BODY FORMER - 410 & 28 GA.

Approximately 6400 410 R/C 2 1/2" Target loads were machine loaded on the 512 Duplex Loader 4/21/92. Ballistic testing, a Quality Audit study and overall appearance indicates the R/C shells to be at least equal to current product. Reload tests are now in progress. Field testing at the Lonoke Gun Club is expected to begin the first week in May.

Marketing has requested 20,000 shells for additional testing in the field. Approximately 4300 are currently available and will be shipped as directed. Another experimental run of 25,000 will be started as soon as equipment is available, possibly the first week in May.

The single station Rotary Cam machine is currently set up to produce 28 Ga. R/C bodies. Problems with the heat-set equipment have delayed our progress. An experimental run of 25,000 bodies is now expected to begin 5/1/92. Effort will be made to have both 28 Ga. and 410 Target loads available for field testing in May.

COPPER BULLETS

NO CHANGE THIS MONTH. The L-20 Swiss style CNC turning machine acceptance run was completed and James Coyle, R&D Engineer, has been trained on operation. The machine is being used for development of copper slugs, plastic sabots and copper bullets. A cross drill/mill attachment and accessories have been ordered and scheduled for installation in June, 1992. This will provide capability to mill cross slots in slugs and sabots. Additional training will be provided upon installation of this enhancement.