

To: T. C. Douglas  
From: A. R. Baszczuk

November 29, 1992

*AR*

#### NOVEMBER PROGRESS REPORT

##### SHOT CHARGER DEVELOPMENT

Design of the Duplex shot-charger and machine modifications is scheduled for completion in December. A revised Duplex Loader arrangement incorporating improvements/preferences requested by Process Engineering and Production is complete. The revised Loader design includes:

- collet type shell brake
- separate trim and skive stations before shot loading
- counting type shotchargers for #2 thru TT steel shot
- rejection of bad shells before crimp
- high/low crimp detect
- collet type crimping station operating from the crosshead.

##### ROTARY CAN BODY FORMER - 410 & 28 GA.

Testing of new 410 R/C prehead, extrusion and sizing punches to produce thinner walled bodies began November 25th. Initial tests looked promising producing bodies with .021/.022 thick walls (.002 thinner). Samples will now be hand assembled, loaded and tested.

Development schedules for both 410 & 28 ga. R/C shells were reviewed with Production to aid planning of needed plant equipment and resources. Effort will be made to have shells ready for field test in December.

Approximately 8,000 286A Unibodies are ready for assembly and will be scheduled thru AH&P and Loading as production schedules allow. Additional bodies will be run thru R/C following 410 development.

##### COPPER BULLETS

SOP's and a Safety Check List for the L-20 CNC turning machine are completed. A study is being made to decide if this equipment will be needed to provide additional capacity for copper slugs and if a new bar feeder should be purchased. This project will be closed before year's end.