

To: T. C. Douglas  
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JANUARY PROGRESS REPORT

SHOT CHARGER DEVELOPMENT

The Duplex counting-type shot-charger design and Loader machine modification drawings are now essentially complete. A review meeting with Process Engineering, Production and Maintenance is tentatively scheduled for the first week in February. Requests to quote fabrication of the shot-charger will be released following design approval. Loader machine modifications, station re-arrangement and assembly will be scheduled thru Maintenance.

ROTARY CAM BODY FORMER - 410 & 28 GA.

Approximately 22M 410 LVTW (large volume, thin wall) bodies were run thru Rotary Cam 12/15/92 and thru AH&P 1/5/93. These were assembled with freshly lubed brass heads without additional Silicone spray. Overall appearance of the assembled product is comparable to current product but head flatness and primer seating could be improved. A QC audit of 100 random shells also revealed wide variation in head thickness. Both of these conditions would improve with the use of Silicone spray. All other characteristics appear okay. Samples, machine loaded with #6 shot the same as current product without any adjustments, produced comparable pressure and velocity ballistics. Reloadability tests however produced primer set-backs and battery cup leaks. This was traced to an out of adjustment primer push-out pin in the MEC handloader causing enlargement of the primer pin hole.

Approximately 1500 R/C shells were machine loaded 1/25/93 as #9 Targets. Comparable pressure and velocity values were obtained using the same machine settings as current product. Samples are now being tested in Ballistics at -20F, +150F and R.T. in a UR barrel, M/1100 oversized chamber/headspace and regular M/1100. Additional reload tests will also be done.

Approximately 25,000 corrugated 28GA. R/C bodies will be run thru Rotary Cam as Production schedules allow, tentively the week of February 15th. A single position Heat Set is now being readied. New guide rails designed by J.A. Burke for better alignment and re-designed cold water wash carriers for faster change-overs are also being installed.

Approximately 8,000 smooth 28GA Unibodies are ready for assembly. These will be run thru AH&P & Load with the corrugated product.

**R & D CNC SCREW MACHINE**

This Capital Project is now closed.