

**REMINGTON ARMS COMPANY, INC.**

INTER-DEPARTMENTAL CORRESPONDENCE



xc: D.S. Findlay  
R.S. Murphy  
K.C. Rowlands

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" \_\_\_\_\_

November 19, 1984

TO: W.H. Coleman, II ✓

FROM: J.W. Bower *JWB*

Monthly Report - Firearms Research - November

Model 1100 Functional Improvements

Preliminary testing of a leaf spring-pressure vent gas system is very encouraging. Average terminal bolt velocities ranged from 178 in./sec. with 1-oz. target loads to 295 in./sec. with 3" magnums. This spread of 117 in./sec. is well within our goal of 200 in./sec. Additional testing will begin the week of November 26.

Testing of the opposed piston/seal gas system has achieved results approaching the goal (bolt velocity spread of 206 in./sec. vs. goal of 200 in./sec.). Additional testing with a smaller diameter elastomer sleeve will begin the week of November 26.

New Concept Shotgun

Eight action system concepts are actively being looked at, including four by the Du Pont Engineering Department.

PDS has issued a status report on electronic fire control development. They have made initial calculations for an electromagnetic actuator, either to directly release a firing pin, or to release a sear through a more conventional linkage. Either approach is technically feasible.

PDS also demonstrated a non-moving trigger, which would electronically fire the gun by the amount of force applied to the trigger, rather than by the amount of trigger movement.

Monthly Report - Firearms Research - November

-2-

New Bolt Action Rifle

Prototype parts are moving through the Model Shop on schedule. Rifles will be available for the Test Lab on December 1. Special equipment for testing extractors has been built.

Model 700 Classic - 350 Rem. Mag.

The transmittal has been assembled and will be processed pending the results of Research testing. Strength, accuracy, and feeding tests should be complete three weeks after receipt of barrels from Production.

Parker Shotgun

Modifications are being made to the Briley fire control. A three-phase contract with Briley, to extend over two years, has been proposed. Copies will be sent to Purchasing and Legal, for their review, prior to enactment with Briley.

JWB:sps