

Nature of Problem:

Development of a low cost high power rifle to take the place of the present Model 720.

Summary of Progress from Inception:

A design was conceived and built in which the objectives of simple parts was met very successfully. Twenty-three of the fifty parts are blank and form operations or springs which can be furnished by vendors specializing in this field. Basic process records have been written for the remaining twenty-seven parts, which are being reviewed by a committee representing Design, Tool Design, Estimating, and Production Engineering of the Technical Division. In processing the gun, operations little used at Ilion, such as internal broaching, rise and fall milling, induction brazing, swage rifling, and automatic machine finishing of barrels, are planned. The recommendations of the Arms Study Processing Report are being given careful consideration.

Two model guns, a Model 721 in .300 Magnum caliber and a Model 722 in .300 Savage caliber, have gone through lengthy and severe tests with very gratifying results. Two additional models in the same calibers went through some of the same tests with equal success. The testing program involved 4,700 rounds of live fire, 6,000 rounds of dry fire with dummies, and 18,000 rounds of dry fire without dummies.

Proposed Next Quarter's Work:

Investigating certain design changes, and revisions which the above tests indicated to be desirable, and further testing. Cold testing remains to be done. Testing manual will be completed.

Project: Model 760, Slide Action Center Fire Rifle - H-1029

Personnel: J. D. Howell, C. C. Orkoff, H. W. Young, Gun Design Unit

Authorized Amount: \$89,000 Total Expended to Date: \$62,466

Nature of Problem:

Design a high power slide action rifle capable of handling ammunition more powerful than any previously handled in slide action rifles and yet weighing less and costing less to produce than our present medium power slide action center fire rifle.