

Proposed Next Quarter's Work:

Work will be continued on twelve additional calibers.

Project: Electrical Ignition, Caliber .60 - TP-3411

Personnel: G. R. Eckstein, W. S. Reynolds, Sr., C. E. Newcomb,
E. D. Tellin, L. Summers, A. E. Watkins, P. F. Darby,
J. R. Turner, R. M. Blunt

Authorized Amount: \$45,000 Total Expended to Date: \$23,600

Nature of Problem:

To develop a satisfactory electric primer for caliber .60 and to design and provide an automatic assembly machine, an automatic electrical inspection machine and an electrical inspection unit for the Waterbury Farrel primer inserting machine.

Summary of Progress from Inception:

The machines have been designed and are essentially complete. Following the 20 mm. design, a wireless high tension type primer has been developed which gives good performance but is not adequately strong.

This Quarter's Work:

The machines described above have been built. Samples of primers have been produced and redesign to provide extra strength has been started.

Proposed Next Quarter's Work:

The machines will be completed and tried. Increased strength will be built into the primer by whatever means is necessary. If this leaves inadequate space for the present priming mixture, attempts will be made to use a high density corrosive military type mixture.

Project: 20 mm. Electric Bolt - TP-3444

Personnel: J. P. Catlin, P. F. Darby

Authorized Amount: \$9,000 Total Expended to Date: \$5,000

Nature of Problem:

To improve on the existing 20 mm. electric bolt designed by International Harvester Company.

Summary of Progress from Inception:

Range facilities are being provided, a revised bolt has been designed and production of a model has started.

This Quarter's Work:

All work outlined above has been done during the Quarter.