

Rim Fire  
(H. Gowing)

As evidenced by the performance records wherein our product is shown to be equal to or better than competitive product, the manufacturing process for the .22 Long Rifle Hi-Speed cartridge has been stabilized.

In the manufacture of various other items in the rim fire line, it has been noted that process improvements are required to guarantee continued production on a relatively trouble free basis. These improvements are being systematically made a part of the various engineering records involved and it is estimated that this work is approximately 30% complete.

Product Engineering Explosives Group  
W. E. Brun, Supervisor

Project: Straightline Charging and Assembly Unit  
Personnel: F. N. Repp, L. R. Feinauer, M. A. Grapski

The straightline charging and assembly unit has been operating on a two-shift basis for approximately two months. Quality has been entirely satisfactory with insertion limits of  $\pm .002$ " to  $\pm .010$ ". Production of the unit on the charging part has been entirely up to expectations. However, production of the assembly part has not exceeded 200,000 primers per shift and is approximately 40% below expectation. Studies performed by Methods and Standards have revealed that the assembly quota can be met. This problem is now in the hands of Production.

Project: #57 Primer  
Personnel: L. R. Feinauer, J. J. Capasso, W. L. Gore,  
S. T. Schellenbach

Sensitivity troubles have been encountered while drop testing primers in 12 gauge Shur Shot shells. Comparative tests on priming mixture have not revealed any falling off in sensitivity. This was confirmed by drop tests in the steel die.

Project: 20(125) Primer  
Personnel: H. H. Hotchkiss, L. R. Feinauer, J. J. Capasso,  
F. N. Repp

In order to prevent anvil breakage, a two step anvil has been developed utilizing the caliber .50 anvil blank. In this new anvil the pointing operation has been eliminated. The new anvil meets the latest Navy specification pertaining to dome thickness, wall thickness and flat on the anvil legs. Drop test results have shown that it will meet the latest and more stringent drop test specifications which demand a clearance at 14" even with an increased pellet weight.