

Explosives Group - P. H. Burdett, Group Leader

Project: Explosives Control Activities,  
Lake City Ordnance Plant

Personnel: F. B. Clay, C.J.W. Wiegand

Nature of Problem:

To provide an independent check on quality and safety and to render assistance to the plant in explosives matters.

Summary of Progress from Inception:

In addition to the assignment above, assistance has been rendered largely in connection with production of new items, particularly M96 - 20 mm. incendiary, M16 - caliber .30 carbine, T1E1 - caliber .50 tracer, T48 - caliber .50 incendiary, T28 - caliber .50 A.P.I.T.

Project: Assistance to Bridgeport Plant on Explosives -  
TP-3071

Personnel: M. W. Maughan

Nature of Problem:

To provide service in preparing and testing samples of primers and explosives and to report independently on quality of primers and ingredients.

Summary of Progress from Inception:

Has provided the service proposed above. Specific assistance has been rendered on Explosives Committee and Explosives Sub-Committee.

The same type of work will be continued in the future.

Project: Improved Rim Fire Priming Mixture - TM-3347

Personnel: M. W. Maughan

Authorized Amount: \$3,000 Total Expended to Date: \$2,800

Nature of Problem:

Part I - to provide a priming mixture for steel rim fire having improved uniformity with respect to sensitivity.  
Part II - to develop for general use improved types of mixtures found in Part I.

Summary of Progress from Inception:

Since lead nitrate is corrosive to steel and since hypo mixtures have poor uniformity with respect to sensitivity, styphnate-tetrazene mixtures with barium nitrate oxidizer were formulated. These gave the desired results in steel and when brass became available, were of interest because of improved stability.