

Summary of Progress from Inception:

Little has been done on this project other than to arrive at very definite ideas.

This Quarter's Work:

Planning and preliminary work in outlining a development program.

Proposed Next Quarter's Work:

Drawings will be made of definite ideas conceived for purpose of evaluation as to their feasibility.

Project: Engineering Study of Current Arms Models - 500 Series  
TP-3405

Personnel: R. H. Grace, C. F. Benner, B. C. Andrews, W. T. Lennox  
Authorized Amount: \$41,400 Total Expended to Date: \$18,471

Nature of Problem:

Furnish Ilion plant with engineering information to assist in manufacture of current models, such as drawings, process records, metallurgical and chemical procedures and standards, adequate inspection standards, and adequate perishable tool and gauge information.

Summary of Progress from Inception:

An extended review of available information was made in preparation for correction and revision. With the advent of military work, activity on this project ceased, except on certain metallurgical and chemical phases.

This Quarter's Work:

Made up twenty Model 510 bolt handles and cocking cams for copper brazing. Brazed by General Electric Company, Schenectady, N. Y., in a drycolene atmosphere brazing furnace with satisfactory results. Conducted dry and live fire tests on Model 510 components in the soft, unhardened state with excellent results. Carried on work on heat treatment specifications for Inspection and Heat Treatment personnel. Completed a cost estimate showing estimated savings to be obtained through the elimination of heat treat operations on numerous components, and hydrogen brazing of bolt handle assembly.

Proposed Next Quarter's Work:

Project to be closed out. All work on revision of current models has been turned over to the Plant Production Engineering and Control Section.

Project: New Type Cement Kiln Gun - RI-174

Authorized Amount: \$33,585 Total Expended to Date: \$27,463

Nature of Problem:

Design new type cement kiln gun.