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SECURITY INFORMATION

In reply refer to
10375 - NJLaG

10 December 1952

From: AIRCRAFT ARMAMENTS, INC.
4415 Reisterstown Road
Baltimore 15, Maryland.

To: Director
Office of Naval Research
Washington, D. C.

Attention: Mr. C. E. Burns, Jr. - Code 463

cc: Mr. William B. Girkin
c/o Johns Hopkins Institute of Cooperative Research
1315 St. Paul Street
Baltimore, Maryland.

SUBJECT: CONTRACT Nonr-555(00) - TRANSMITTAL OF PROGRESS REPORT
NUMBER 5.

Enclosure: (A) AAInc. Packing List No. 744 and enclosures listed thereon.

1. Six (6) copies of AIRCRAFT ARMAMENTS, INC. Engineering Report No. ER-1370, covering progress on the subject contract during the month of November 1952 is being forwarded in accordance with the requirements of the subject contract.

2. It is requested that the enclosed Interim Progress Reports be inserted in the folder previously transmitted with the first monthly progress report.

Very truly yours,

AIRCRAFT ARMAMENTS, INC.

Joel M. Jacobson
Vice President & General Manager

12

SECURITY INFORMATION

INTERIM PROGRESS REPORT NO. 6

RESEARCH ON OPERATIONAL FEASIBILITY OF SCATTER PROJECTILES

Contract No. Nonr 555(00)

Report PeriodDate of Report

November 1 - 30, 1952

December 9, 1952

I SUMMARY OF THE NATURE AND PROGRESS OF THE WORK IN-
CORPORATING DESIGN DISCUSSION

During the month of November 1952 the multiple launching activity was limited to a few 20 MM and shot gun multiple launchings. The results of these launchings are not reported since the only purpose for them was to attempt to establish proper packing arrangements and because of this the accuracy varied considerably.

The .30 caliber firings were limited to tests at NOL where data on the final selected projectiles is being obtained. Projectiles with 3° and 7° canted fins were fired during these tests. Preliminary data is expected to be available during December 1952.

During the report period several projectiles and sabots were manufactured in preparation for increased firing activity during the month of December 1952.

Considerable experimentation has been conducted on better heat treat methods for both the projectiles and the coining dies. As a result of this investigation, better die life has resulted and it is believed that the projectiles are more uniform and have better structural characteristics

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INTERIM PROGRESS REPORT NO. 6 - (Continued)

Activity on multiple launchings during this period was curtailed to some extent since AAInc. and ONR believed it desirable to await the NOL test results.

II ESTIMATED PERCENTAGE TO COMPLETE

The total expenditure of funds to date is approximately 90% complete, however, the percentage complete of the project based on AIRCRAFT ARMAMENTS, INC. understanding of the work required by ONR to complete the program is approximately 60% complete.