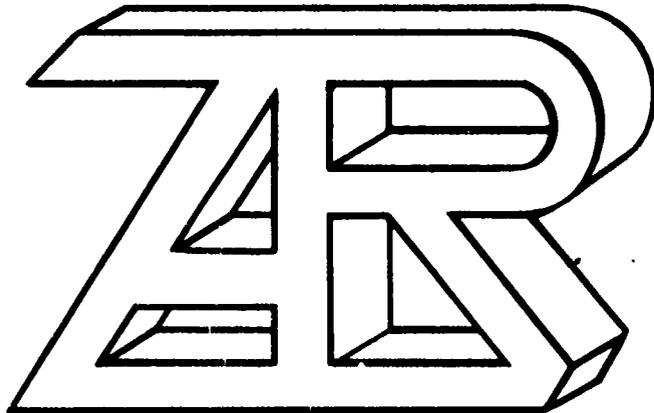


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FINAL PROGRESS REPORT
FOR
NATO SEA GNAT PROGRAM

CONTRACT N60921-83-D-0143
DELIVERY ORDER NUMBER 0008 AND 0032



DEFENSE ELECTRONICS
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FINAL PROGRESS REPORT

FOR

NATO SEA GNAT PROGRAM

CONTRACT N60921-83-D-0143

DELIVERY ORDER NUMBER 0008 AND 0032

SUBMITTED TO:

NAVAL SURFACE WEAPONS CENTER

WHITE OAK, SILVER SPRING, MARYLAND 20910

SUBMITTED BY:

ADVANCED TECHNOLOGY & RESEARCH, INC.

3933 SANDY SPRING ROAD

BURTONSVILLE, MARYLAND 20866

301-421-1856

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		TASK NO.	WORK UNIT ACCESSION NO.
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FIELD	GROUP		
19. ABSTRACT (Continue on reverse if necessary and identify by block number) Test and Evaluation plans and hazards analyses were prepared. Discussions were held with the Weapon Systems Explosive Safety Review Board (WSESRB) to obtain safety approval.			
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22a. NAME OF RESPONSIBLE INDIVIDUAL W. D. Piper		22b. TELEPHONE (Include Area Code) 202-394-1233	22c. OFFICE SYMBOL G41

FINAL PROGRESS REPORT

ADVANCED TECHNOLOGY & RESEARCH, INC.

CONTRACT N60921-83-D-0143, 20 Jan. - 31 Dec. '84

NATO SEA GNAT PROGRAM

DELIVERY ORDER NO. 0008 AND 0032

PROGRESS:

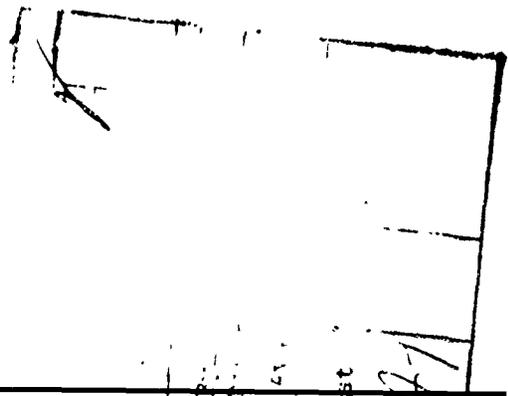
This report is being written in compliance with the requirements of Contract N60921-83-D-0143 between the U.S. Naval Surface Weapons Center and the Advanced Technology and Research, Inc., of Burtonsville, MD.. The details of this report extend from 20 January 1984 through 31 December 1984 and summarizes my activities during this period.

At the beginning of the reporting period the program consisted of three decoys. The LR Seduction cartridge was cancelled in February, 1948, due to numerous failures and large overruns. The RF Seduction cartridge was approved for production in mid 1984. The RF Distraction cartridge is the remaining cartridge being developed and is scheduled for TECHEUAL in early summer of 1985 with OPEUAL due in September-October time frame.

In the conduct of the services provided for by the contract, seven trips were made to the Hycor facility in Woburn, Mass.. These trips were made on the following dates and were basically scheduled and planned for by the NSG Project Office (PO) as a program review:

January 16-20

April 9-12



May 23-25

June 20-22

July 17-19

July 24-26

November 12-15

In addition to the above trip, several trips were made to NSWC/DL, NTS (the testing sub-contractor of Hycor) and to SWL, McLean, VA.. An average of one day per week was spent at the PO with approximately five visits to the Weapon Systems Explosive Safety Review Board (WSESRB) in the company of the PO. These visits were planned by me to acquaint the PO with the workings of the WSESRB and to present program reviews for the Board's approval.

Under the terms of the contract, it is my task to provide the PO with safety and reliability expertise. In the performance of this numerous test and evaluation plans, together with hazards analysis, were prepared. These were discussed with members of the PO as well as the WSESRB for prior approval of the program. In the preparation of these plans, I uncovered what I believed to be potential problems with the development program and the launching system. These problem areas were brought to the attention of the PO. Some of the problems deal with the Mk 36 Launching System and the impact of the new round on this operational system. The Mk 36 system as currently installed aboard U.S. ships was never intended to withstand the pressures and forces imposed by the new round. The cost of adding this new round to our decoy inventory, has not been fully analyzed.

A more detailed report and analysis of the above assignments has been prepared and submitted to Mr. W. Piper, G-41, NSWC. As stated in that report, the opinions expressed here are my own and do not reflect the opinions of others.