## CENTRAL INTELLIGENCE AGENCY

## INFORMATION REPORT

REPORT

CD NO.

COUNTRY

East Germany

DATE DISTR.

23 May 1955

SUBJECT

Development of Hydroacoustic Equipment

NO. OF PAGES

25X1

PLACE

**ACQUIRED** 

at VEB Funkwerk Koepenick

NO. OF ENCLS. (LISTED BELOW)

25X1

DATE OF INFO.

SUPPLEMENT TO REPORT NO.

THIS IS UNEVALUATED INFORMATION

25X1

Acquest projects to be handled by the William Development Field II at Funkwerk Koepenick in 1955 included:

Multi-direction sonic depth finder (Rundecholot). Ing. Willy Engel was in charge of the project. In December 19 he made experiments with 25X1 sweep generator with time delay to contine the transmitter unit. The instrument operated on a frequency of 1 and was designed for hotizontal and vertical sounding up to a major problems which produced serious difficulties was the linear charging period. The oscillator system of the of a condense osed of four individual oscillators sounding devi be extended and retracted from the armanged on a bottom of ships and rotated when in operation. All records on the project

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were secret. Several days before Christmas 1954, a representative of the Ministry of Interior visited Engel and checked the development status of the sonic depth finder. He was unsatisfied with the slow progress and demanded that the activities had to be accelerated and completed by late 1955. In late December 1954, the project for which funds of 100,000 Eastmark had been planned for 1955 was allegedly cancelled by another department of the Ministry of Interior.

- b. Electronic sighting device also called fish detector. It was planned that a preliminary series of three units be built and that the basic records for the production be completed. Based on the results obtained in sea tests, the instrument was to be improved and made ready for production.
- c. Fischlupe (fish lans) (etc). The activities planned were the same as for the detecting device reported in paragraph lc above.
- Sonac depth finder for shallow waters. An operational model was to be
- Development of oscillators. The materials were to be tested for their magnetostrictive properties and an output meter for the testing of the oscillators was to be designed. It was also planned that tests be made with Manifer oscillators.

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	g. Development of a light sonic depth finder.							
2.	By early January 1955, the Ministry of Interior had approved the following projects.							
	a. Transfer of the Fischlupe from development to production.							
	b. Development of a light sounding device for small fast vessels of the sea police.							
	c. Development of an oscillator							
	d. Development of a sonic depth finder for shallow waters.							
	expected that until about March, many plans would be changed and procedled or approved, the cancellation of the development of the direction sonic epth finder was not considered final. This confusion was a result of different decisions made by the plants on one hand and the financial departments and material supply the other. Valuable time will pass before these efficients are settled this reason some engineers at TEN 3 Laboratory had work by early James and played cards. Basic changes in the plants of the played cards. Basic changes in the played setup when the played cards are settled.							
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CLASSIFICATION

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MAIAD STATES, WITHIN THE MEANING OF TITLE 10, SECTION OF THE U. S. CODE, AN ANGEDO. ITS TRANSMISSION OF 175 CONTENTS TO OR ANGEDT MY ARE MANUFACEZO P MITED BY LAW. THE REPPOSICTION OF THIS FORK IS PROMI

## THIS IS UNEVALUATED INFORMATION

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- Development projects to be handled by the TEN Hydro-Acoustic Laboratory of Development Field II at Funkwerk Koepenick in 1955 included:
  - Multi-direction sonic depth finder (Rundecholot). Ing. willy Engel was in charge of the project. In December 1954, he made experiments with sweep generator with time delay to control the transmitter unit. The instrument operated on a frequency of 15 kcs and was designed for horizontal and vertical sounding up to a distance of 8 km. The major problems which produced serious difficulties was the linear charging of a condenser within a 25 second period. The oscillator system of the sounding device was allegedly composed of four individual oscillators arranged on a plane which were to be extended and retracted from the bottom of ships and rotated when in operation. All records on the project were secret. Several days before Christmas 1954, a representative of the Ministry of Interior visited Engel and checked the development status of the sonic depth finder. He was unsatisfied with the slow progress and demanded that the activities had to be accelerated and completed by late 1955. In late December 1954, the project for which funds of 100,000 Eastmark had been planned for 1955 was allegedly cancelled by another department of the Ministry of Interior.
  - b. Electronic sighting device also called fish detector. It was planned that a preliminary eries of three units be built and that the basic records for the production be completed. Based on the results obtained in sea tests, the instrument was to be improved and made ready for production.
  - c. Fischlupe The activities planned were the same as for the detecting device reported in paragraph to above.
  - Sonic depth finder for shallow waters. An operational model was to be built.
  - Development of oscillatore. The materials were to be tested for their magnetostrictive properties and an output meter for the testing of the oscillators was to be designed. It was also planned that tests be made with Lanifer oscillators.
  - f. Development of an absolute speedometer for ships.

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- 5. Development of a light some depth funder.
- By early January 1955, the Ministry of Interior and approved the following projects.
  - a. Transfer of the Fischlupe from level-pment to production.
  - b. Development of a light sounding device for small fast vessels of the
  - c. Devisionant of an escillator
  - d. Development of a senic depth finder for shallow waters.

Since it was expected that until about Earch, many plans would be changed and projects massiled or approved, the cancellation of the development of the multiplication sonic depth finder was not considered final. This confusion was a result of different decisions made by the planning offices on one-hand and the Financial departments and material supply offices on the other. Valuable time will pass before these affairs are cottled. For this reason some on losers at TEN 3 Laboratory had no work by early january 1995 and layed cards. Basic changes in the organizational setup wereallegedly planned for 1955.

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SECHAT.

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