CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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This is UNEVALUATED Information

THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
THE APPRAISAL OF CONTENT IS TENTATIVE.
(FOR KEY SEE REVERSE)

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1. Kollisionsschutzgeraet (anticollision apparatus)

After the equipment and its truncated paraboloid aerial (about 1.5 meters long and 50 cm. deep) had been installed on the ship STRALSUND, she developed engine trouble, and they had to be transferred to the ROSTOCK. The trials were carried out during a voyage to Riga and back, which took place in October and early November 1954. Two technicians from VEB Funkwerk Koepenick, Ing. Heinz Munte and Scheuer (fnu), went to sea with the equipment to supervise the trials; they and the equipment were back in Funkwerk Koepenick on 8 November 1954. A small meeting was held on 22 December 1954 to discuss the results of the sea trials. The desired range of 30 sea miles was achieved and the shortest range reading obtained was 150 meters.

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on 6 January 1955, another meeting about the equipment was held and while, on one hand, there was some discussion of developing a second version of the set with vertical as well as horizontal scanning -- and therefore no longer an anticollision apparatus but a ground-to-air radar--, on the other, the possibility was mentioned of building some other similar equipment under license.[1]

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the tests had not proved entirely satisfactory rendering impossible further development in that direction. There has been no mention of the building of a pilot series.

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2. VHF and television receiver aerials

No progress has been made on this task.[2]

3. Transmitter and receiver aerials in the SHF (centimeter) range

The only aerials in this range which are being worked upon are those for use with the Kollisionsschutzgeraet.

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(NOTE: Washington distribution indicated by "X"; Field distribution by "#".)

4. Aerial testing ground

A piece of land has now been obtained adjoining the former Lorenz factory at Dabendorf (now VEB Funkwerk Dabendorf). Before any use can be made of it, however, power supplies, etc., have to be provided

5. Frequency filter for transmitter aerials

The 3 kilowatt filter which was installed on the Rheinsberg has had to be repaired twice. Details of the progress with a 10 kilowatt filter are not known, but the work has been partially disorganized

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6. Gleichwellensteuersender (common-wave control transmitter)

One such transmitter has been completed and enquiries were received from Poland for three more. The order has not materialized because the price was too high.

7. Decca receiver

This project came to a standstill for the second time at the beginning of December because the Ministry of the Interior, through which the original order was placed, has not made any funds available. It has been struck out of the 1955 program.

8. Automatic alarm receiver

The laboratory model is nearly complete.

9. Large station receiver for single side-band working

The laboratory model has been completed. It consists of the following units, which are built into racks in one bay about 5'6" high:

a. HF unit
b. Oscillator unit
c. IF unit
d. Demodulation LF unit
e. Side band selectors
f. Frequency turning unit
g. Automatic tuner (Eichautomatic) (with Ferraris motor)

Technical details are as follows:

a. Range 2-30 mcs.
b. Accuracy of oscillator readings: ± ca. 1 kcs/min.
c. Accuracy of HF circuit: ± ca. 10 kcs.
d. Frequency constant ± 500 cs. at ± 10°C.
e. Sensitivity ≤ 10 KTo
f. IF band width ± 2 to ± 6 kcs.
g. Selectivity of IF filter for 2 kcs. spacings from the cut-off frequency: ≥ 40 db.
h. Distortion factor: ≤ 2%
i. Temperature tolerance 0 ...+50°C.

10. Small "Musa" (multiple unit steerable antenna) set

Work on this task is proceeding slowly.

11. Goniometer direction-finder

Work on this task is proceeding.

12. Radio buoy

A laboratory model has been made and tested. An order has been received and funds are available for 1955, so this equipment is now expected to go into production.

13. Adcock direction-finder

Difficulties are being experienced with the ferrite iron (Ferriteisen) and experiments are being carried out to determine what frequencies can be achieved with material available. Measuring instruments to complete these experiments are at present being built, and these alone are not expected to be ready before July 1955, unless the present team of two engineers and one artificer is strengthened.

14. Calibration potentiometer

The long-wave component has been completed and delivered, but the short-wave section is being completely redesigned because it incorporated a fundamental error.

15. 800 watt medium high-frequency transmitter

Development work has been completed and production will shortly be started; it is anticipated that the first sample prototype will be available in the second or third quarter of 1955.

16. 800 watt high-frequency transmitter

Development work has been completed and production will shortly be started; it is anticipated that the first sample prototype will be available in the second or third quarter of 1955.

17. 70 watt distress transmitter (500 kcs.)

Development has been completed.

18. Radio beacon (Funkfeuer)

Particulars of the customer have been lost. The equipment is now ready, but no one knows to whom to deliver it.

19. Radio beacon (Funkleitfeuer)

The equipment has been delivered to Sassnitz, but the aerials, which are to be built by VEB Funkanlagenbau, are not yet ready. In due course they will have to undergo trials at Funkwerk Koepenick's new aerial-testing ground at Dabendorf (see 4 above).

20. Fish locator (Fischlupe)

A suggestion for an improvement incorporating electronic operation has been made by a member of the team working on it.

21. Sea-water-tight moving-coil microphone

Development work has been completed. This instrument is not, as was originally thought, for submarine use, but is merely a moving-coil microphone for use on ships where it is liable to get wet. If it goes into production, it will be made at Leipzig; the microphone itself is of a type already obtainable on the market in East Germany.

22. 30-kw. television transmitter

Work is going ahead but it will probably not be completed by the end of 1955.

23. UHF aerials

This is merely a theoretical research task [redacted] 25X1

[redacted] 25X1

24. Portable frame direction-finder

Some preliminary equiries have been received about the building of such equipment, but no firm details are known.

25. Direction-finder for small craft

Some preliminary enquiries have been received about the building of such equipment, but no firm details are known.

26. Personnel and Financial Problems

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Those with individual contracts (Einzelvertraege) entitling them to several months' notice were sent on leave and told that they could enter the plant only to draw their pay. In view of the shortage of money, it is thought likely that another 270 (out of a total pay-roll of about 2000) will shortly be given notice. The financial allocations for research and development tasks in hand have been reduced to 1/10 -- in the case of the larger tasks -- and to 1/3 or 1/4 -- in the case of the smaller ones -- of last year's totals. Department TEE has money in hand for about three months' work; Department TEA has none at all. Very few order numbers have been given for 1955 and without them it is impossible to obtain stores. Morale, in the third week of January, was lower than ever before.

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Comments.

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1. The paraboloid reflectors, previously reported and the experiments referred to now appear to have been the first steps in connection with this second version of the anticollision device.

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