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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY	East Germany	REPORT	
SUBJECT	VEB Funkwerk Koepenick Production	DATE DISTR.	3 June 1954
DATE OF INFO.		NO. OF PAGES	3
PLACE ACQUIRED		REQUIREMENT	
		REFERENCES	

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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 (anti-collision apparatus)

All the centimeter wavelength testing instruments required for the development of the Kollisionsschutzgeraet have been completed. The optimum working resistance for the magnetron type 730 has been ascertained. The development work on the magnet for the magnetron is being carried out by EFEM (Entwicklung und Fabrikation elektrischer Messinstrumente, formerly of SAG Kabel) and the first permanent magnets were expected to be delivered during February. The klystron type 723 A/B was expected from VEB Werk fuer Fernmeldewesen during the first quarter of 1954, but two klystrons have been obtained by Standfuss (fnu) of DIA. The mixer-detector type 705 for mixing in the 3 cm. range produced by VEB Werk fuer Fernmeldewesen is not suitable, as the degree of mixing is worse by a whole order of magnitude than when used in lower frequencies. At present, the VEB Werk fuer Bauelemente der Nachrichtentechnik Carl von Ossietzky, Berlin-Teltow, cannot supply any silicon mixer-detectors and their germanium detectors are not suitable for the 3 cm. range either. Dr. Matthias Falter of the Teltow plant is officially blamed for this. It has been decided to obtain detectors from Sueddeutsche Apparate Fabrik and the relevant central government order has been placed. The working drawings for the first model are about 85% complete; the trials at sea of the first laboratory model of the equipment are scheduled to take place in July or August 1954, and this schedule will probably be complied with.

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2. No other radar research work is going on, and nothing more has lately been heard in the plant of any airborne radar task.

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25 YEAR RE-REVIEW

STATE	x	ARMY Ev	x	NAVY	x	AIR	x	FBI		x	ORR Ev	x	OSI Ev	x
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3. Centimeter wavelength antenna
One specimen has been produced for experimental purposes. No further details are yet known.²
4. Decca navigator
Work on this has been stopped and the task cancelled.
5. Funkfeuer (radio beacon)
One set was satisfactorily completed and sent out on trial, without the appropriate aerial having been developed. The equipment is now back in the Funkwerk Koeppenick, but no work is being done on it.
6. Funkleitfeuer (radio beacon)
The adjustments shown to be necessary by the trials at Sassnitz have now been carried out. The equipment is still in Funkwerk Koeppenick, because the aerial and permanent accommodation (the latter to be provided by the Wasserstrassenamt) at Sassnitz are not ready.
7. Gross-Stationsempfänger (large station receiver)
The work on this task has reached the stage of preparatory experiments. The first laboratory model is scheduled to be ready by the end of 1954.
8. Rundecholot (form of echo-sounding apparatus)
This proposed depth-sounding instrument for shallow waters is thought to have been a Russian task. Its technical specifications were changed several times, and it has now been postponed indefinitely.
9. Goniometerpeilgeraet (Goniometer DF set)
The goniometer itself is complete and one prototype set is being built. It is a copy of the Telefunken "Telegon". It is believed that the equipment will be fitted to ships at present being built for the Russians.
10. Adcockpeilgeraet (Adcock DF set)
Nothing is known of any order to build a set of this type.
11. Notsender (Distress transmitter)
A pilot series has been built. The set has an output of 70 watts and uses a frequency of 500 Kcs. It can be keyed automatically by an alarm signal.
12. Ultrashort wave transmitter
A pilot series of ten has been built. The set has an output of 3 kws. and a range of 18-110 mcs. Two have been sent to Poland, two are retained for experimental purposes in the Funkwerk and one was, on 20 February 1954, being installed on the Rheinsberg at Fehrbellin. The aerial constructed for this set is designed for 93.6 mcs., which is a RIAS frequency, and it accordingly appears likely that the set is to be used for jamming it.

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13. Betriebsregelungsgeraet-Regelgeraete (regulating apparatus)

This term is used in the Funkwerk to cover all control devices for equipment working on the rotating field principle. They are usually operated by high frequency currents and make use of mechanical power. An example is automatic compensation for physical displacement, e.g. of aerials on ships. An aerial adjustment (Antenneabstimmung) problem is being worked upon, in which it is believed that the Russians are interested.

14. Zweifach Musa-Anlage (double musa apparatus)

A small double musa device has been built and subjected to trials at Funkamt C at Schoenefeld, about two kilometers southeast of Beelitz, to demonstrate the suitability of the system for Moscow-Berlin traffic, such as the interchanging of musical programs. The set is at present back in the Funkwerk.

15. Michael decimeter sets

Components for the 30 Michael type decimeter sets were not received and so this assembly task has not materialized. Johannes Norra, who expected to be in charge of the work, has been moved to the Television Section, and his own section has been dispersed.

16. Television Transmitter

There are five tasks related to the building of a new television transmitter and ancillary equipment for Berlin. Details are not yet available, except that it will have an output of 30 kws. and a frequency range of 40-68 mcs. Work was started early in March, and it is expected to be ready in six months.

17. 1954 tasks

The program for 1954 has still not been received. This has resulted in considerable underemployment. Men engaged on development tasks tend to work slowly because they assume that there will be no work for them after they have finished what is in hand. Ten switch fitters (Schaltmechaniker) have been sent from Werk II to Dr. Eric Schuettloeffel's section to be "hidden", because there is not enough work for them elsewhere.

18. Personnel

In the period under review, no returnees from Russia took up employment in the works and no departures to the West were reported.

Comment: The Telegramm-Adressbuch (April 1951) lists a Sueddeutsche Apparate-Fabrik G.m.b.H., Nuernberg, Platenstrasse 66.

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