

FEB 1952 51-4AA

CENTRAL INTELLIGENCE AGENCY

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SECURITY INFORMATION

INFORMATION REPORT

REPORT [Redacted]

CD NO.

COUNTRY **East Germany**

DATE DISTR. **26 November 1952**

SUBJECT **New Developments at RFT Funkwerk Koepenick**

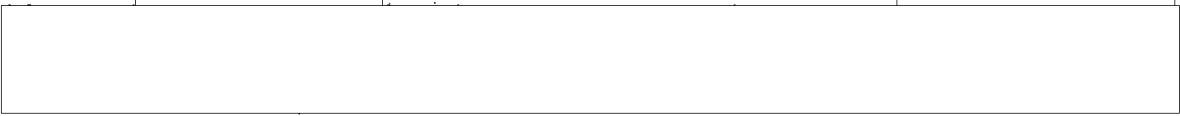
NO. OF PAGES **2**

DATE OF INFO. [Redacted]

NO. OF ENCLS. (LISTED BELOW) **50X1-HUM**

PLACE ACQUIRED [Redacted]

SUPPLEMENT TO REPORT [Redacted]



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The following new development projects have been completed at RFT Funkwerk Koepenick:

1. Audio-frequency spectrometer EM 1/2 1-3a (Hoerschallspectrometer)

This instrument provides a picture of the distribution of audio-frequency energy (Schallenergieverteilung) in the spectrum 36 cycles to 18 kilocycles. The relative levels can be estimated with the help of calibrations at 10, 20, 30, and 40 db. The instrument responds to changes which have a duration of more than 0.1 seconds. In every octave of the spectrum four bands of 1/4 octave width can be selected for examination. The instrument has been handed over to the production branch at Berlin-Oberschoeneweide, Brueckenstrasse (former Feldmann factory).

- Frequency range : 36 cycles - 18 kilocycles. 36 filters.
- Spectrum scanning rate (Wiederholffrequenz des Spektrums) : 22.5 cycles
- Input voltage : 100 microvolts - 10 volts
- Input impedance : 100 kilo-ohms 50 micro microfarads (pF)
- Valves :

- 1 x OSW 2058 b
- 4 x 6AC7
- 2 x 6H6
- 1 x 6J6
- 1 x 2G3K7
- 2 x STV 150/15
- 1 x 6AG7
- 1 x B679M
- 1 x 6X5
- 1 x EZ12
- 1 x EV 3-9/1.8
- 1 x STV 280.80

This instrument has been designed to Russian order.

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2. Small oscillograph (Klein Oszillograph)

This instrument has a two-stage amplifier (15 cycles - 1 megacycle) which amplifies x 1,000. Sweep frequency (Kippfrequenz): 15 cycles - 200 kilocycles. It is equipped with a symmetrical high vacuum sweep apparatus (Kippgeraet).

- Valves: 1 x LB8
- 2 x EF12
- 5 x EF14

The instrument has been designed to Russian order.

3. Normal oscillograph OG2-1b HRP 1/100/1.5 (Normaloszillograph)

This instrument is a further development of the OG2-1 oscillograph. The instrument (OG2-1b HRP 1/100/1.5) has a four-stage amplifier with an amplification factor of 1000 - 1500. The first stage takes the form of a cathode amplifier (ist als Kathodenverstaerker ausgefuehrt). Amplifier control is effected in calibrated stages (geschicht in geeichten Stufen). Readings are made with the help of a calibrated grid (Messgitter). The output stage is arranged in push-pull (Gegentaktstufe). The sweep apparatus (Kippgeraet) consists of a multivibrator (sic) and phase reversal stage (Phasenumkehrstufe). The frequency range is divided into ten stages from 13 cycles to 1.1 megacycles. The instrument is equipped for self-, mains-, and external synchroization (Eigen-, Netz-, u. Fremdsynchronisierung). A synchroization amplifier is to be provided.

The instrument has been designed to Russian order.

4. Twin-beam oscillograph OG2-6c (Zweistrahloszillograph)

This instrument, which was handed over to the Test Department (Prueffeld) in August 1952, is equipped with a single stage amplifier for the range 20 cycles to 1 megacycle, with an amplification factor of 20 - 100. It has a three stage multivibrator sweep apparatus (Kippgeraet) for the range 15 cycles - 150 kilocycles.

- Valves: 1 x HR2/100/1.5 (anode voltage - 1000V.)
- 3 x 6AC7
- 2 x 6X5
- 3 x RV12 P 2000

This instrument bears German inscriptions. It is not known for whom it has been designed.

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