

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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SECURITY INFORMATION

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

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1. 1952 Production Statistics

a. The output of the factory in the year 1952 was valued at 106,000,000 DM (East) (Abgabewert = selling price). This was an increase of 36% over the production in 1951, and 186% over the production in 1950. The factory thereby fulfilled its production plan by 100.8%.

b. Production in 1952 was as follows: -

<u>Item</u>	<u>Quantity</u>	<u>Proportion of total production</u>	<u>Plan fulfilment</u>
Radio tubes	1,950,000	47%	97%
Metal ceramic tubes	16,500	11.6%	62%
Large transmitter tubes	110	1.8%	112.9%
Other transmitter tubes	-	1.5%	86.4%
Television tubes etc.	92,000	22%	106.8%
Stabilizer tubes	-	-	121%
"Stromtore"	-	-	120%
Discharge lamps	-	-	119%
Rectifiers and technical tubes	-	-	110%
Instruments	-	10%	105%
Components (detectors, quartz etc)	-	-	122%
Sundry (transformers etc)	-	-	1868%

25 YEAR RE-REVIEW

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STATE	X	ARMY	X	NAVY	X	AIR	X	FBI		AEC		ORR Ev	X	OSI Ev	X
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2. 1952 Labor Statistics

- a. The factory employed 7,219 persons on 31 December 1952, compared with 6,115 on 1 January 1952. 56% of the staff were female; of the total staff, 9.5% were juvenile. The staff was classified as follows:

Production	66.6%
Technical	14.4%
Business	8.4%
Auxiliary	3.3%
Apprentices	4.4%
Not engaged in actual production (fire service, etc.)	2.5%

- b. During 1952: 3,166 persons were hired
2,251 persons left the factory
2,327 persons were transferred to other jobs in the factory.

On 31 December 1952, only 40% of the employees had been with the factory for two years or longer.

- c. The factory now employs:

9 "Inventors of Merit"
1 "Activist of Merit"
426 "Activists"
45 workers awarded the "Medal for Excellent Production Record"
(Medaillon der ausgezeichneten Leistung).

- e. The factory has lost the services of the following leading technicians:

Eitel Spiegel, in charge of the development of VHF
and television apparatus

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Jung (fnu), in charge of the development of electron
microscopes etc.

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Dr. Bingel, in charge of the development of semi-conductors

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3. Investments in 1952

During 1952, 1,700,000 DM East were spent on capital investment, and 600,000 DM East on general overhaul of the plant.

4. 1953 Plan

- a. It is planned to increase production by 45% in 1953 (to about 150,000,000 DM East.) The planned increases include:

Radio tubes	12%
Television tubes etc.	50%
Metal ceramic tubes	250% (to 55,000 tubes)
Instruments	10%

- b. Orders in hand in late January 1953 included the following for tubes:
53,000 television tubes (9") for export to the USSR
12,000 television tubes (9") for Radeberg
46,500 metal ceramic tubes for export to the USSR including

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15,000 LD7
 11,000 LD9
 9,000 LD 11
 11,000 LD 12

800 metal ceramic tubes type LD 12 for Radeberg.

5. Metal ceramic tubes

The proportion of rejects in December 1952 amounted to:

92% for type LD 7
 71% for type LD 9
 65% for type LD 11
 62% for type LD 12

6. Military-type tubes

A Volkspolizei unit in Leipzig-Plagwitz has requested the manufacture of the following tubes:

RV 2.4 P 800
 RV 2.4 P 700
 RS 2.4 T 6
 RV 12 P 2000

(The RV 12 P 2000 is already being manufactured by the VEB Funkwerk Erfurt).

7. Tubes for China

A Chinese delegation of four under the leadership of Minister Wang visited the factory for ten days in late November - early December. The delegation showed a general interest in the factory, took away with them an electron microscope and samples of tubes, and invited the HF plant to tender for the delivery of the following tubes:

- a. Impulse triodes $\lambda = 50$ cm. Impulse duration 3 microseconds. Frequency 500 c/s. Outputs of 250 KW, 150 KW, 60 KW, and 10 KW.

Required in 1953: 1,000 of each type
 Required in 1954: 2,000 of each type
 Required in 1955-7: 5,000 of each type

The Chinese would provide specimen tubes

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- b. 6AK5. (Miniature broad-band amplifier):

Required in 1953: 3,000
 Required in 1954: 5,000
 Required in 1955: 15,000
 Required in 1956-7: 20,000 each year.

- c. Cathode ray tubes (types not yet decided):

Required in 1953: 1,000
 Required in 1954: 2,000
 Required in 1955-7: 5,000 each year.

- d. Magnetrons:

- (1). $\lambda = 3$ cm. 1 microsec. 500 c/s.
 outputs of 10 and 60 KW
 (2). $\lambda = 10$ cm. 1 microsec. 1,700 c/s.
 outputs of 120 and 250 KW.

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(3) Required in 1954:	300 of each type
1955:	500 of each type
1956-7:	4,000 of each type

(The Werk HF declared they would be unable to deliver any before 1954).

• (1) HF 2549 (Hydrogen thyatron with 1 KV inverse voltage)

(2) Hydrogen thyatron with 5 KV inverse voltage.

(3) Required in 1953:	1000 of each
1954:	1500 of each
1955-7:	2000 of each
	each year.

8. Iconoscopes

a. Great difficulties have been met in the manufacture of iconoscope tubes. The few so far made have had a life of only 120 hours. Dr. Paul has been in charge of this, assisted by Maurer who has transferred recently from the television laboratory in Adlershof. Development work is also proceeding in Adlershof under the direction of Dipl. Ing. Haas.

b. The Werk HF plans to make 100 iconoscope tubes in the first quarter of 1953.

9. 1953 development projects

About 180 proposals were submitted by the factory to HV Funk, of which, 95% have been approved. These include the development of the following:

a. LMS 1000 tube. (1 megawatt impulse magnetron)

b. 2 types of moving field tubes

c. 2 different klystrons.

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