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CENTRAL INTELLIGENCE AGENCY

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## INFORMATION REPORT

COUNTRY Germany (Seviet Zone)

SUBJECT Carl Zeiss, Jens/Electronic Multipliers, Synthetic Crystals

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- Secondary emission electronic multipliers are being delivered to the Soviet Union and the research institute at Berlin-Priodrichshafen. There are 25 of these machines in existence at the present time. One hundred are to be manufactured in April 195\*.
- 2. Technical data: amplification about 10<sup>6</sup>; voltage, 2,800 V. Feed wire from socket and from everhead. The voltage is to be increased in the next mechines made. The evaratus has very good constancy. Range: 200 mm to red. The sensitive layer come. s e? cosium (cs) and antineny. These materials are procured in the West and there is enough on hand for the time being. The price of the machines is between 350 and 500 marks. Comparative tests with American equipment are being carried ut at the present time.
- 3. Teless Jone has been working for about five years on the development of synthetic enystels and has finally succeeded in producing crystals about 10 cm. in size. They are used as substitutes for quarts resonators, to which they have proved superior. Grystals are supplied for the time being only to the research institute at Friedrichshafen, which belongs to the Volkspolized and is working primarily with radar and electronic measurement technique.

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