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			GENCE AGENCY	25X1
		ORMATIO	N REPORT	
CCUNTRY	Germany (Soviet Zone)			
SUBJECT	Carl Zeiss, Jena / Electron Crystals	ic Multiplier	s, Synthetic	
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	THIS DOCUMENT CONTAINS INFORMATION			NO. OF PAGES 1
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- 1. Secondary emission electronic multipliers are being delivered to the Soviet Union and a research institute at Berlin-Friedrichshafen. There are 25 of these machines in existence at the present time. One hundred are to be manufactured in April 1954.
- 2. Technical data: amplification about 10⁶; voltage, 2,800 V. Feed wire from socket and from overhead. The voltage is to be increased in the next machines made. The arratus has very good constancy. Range: 280 mu to red. The sensitive layer cons. sc°cesium (cs) and antimony. These materials are procured in the West and there is enough on hand for the time being. The price of the machines is bette in 350 and 500 marks. Comparative tests with American equipment are being carried ut at the present time.
- 3. Teless Jena has been working for about five years on the development of synthetic c./stals and has finally succeeded in producing crystals about 10 cm. in size. They are used as substitutes for quartz resonators, to which they have proved superior. Crystals are supplied for the time being only to the research institute at Friedrichshafen, which belongs to the Volkspolizei and is working primarily with radar and electronic measurement technique.

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