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CENTRAL INTELLIGENCE AGENCY
INFORMATION REPORT

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SUBJECT Carl Zeiss, Jena
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1. Zeiss Jena is now manufacturing about 100 multipliers per month. The working range of these multipliers comprises the entire spectral region. The operation voltage lies between 1.8 and 2.8 kilovolts. They are elev. 1-stage and adapted for scintillation counters (Szintillationszähler). Comparison with PJA apparatus has shown that the equipment manufactured at Jena is more powerful than the US apparatus. An amplification factor of 10^9 has been attained at Jena. The cathode is of cesium-antimony. The anode is outside. The exterior dimensions are 1.5 times those of the US apparatus.
2. There are no difficulties with the supply of materials for the manufacture of multipliers at Zeiss Jena.
3. The head of the semi-conductor division at the Zeiss Jena works is Professor Görlich and his first assistant is Dr. Kross. Both were in the Soviet Union after 1945 and carried out research work on semi-conductors in the optical works at Kiev, which were modeled on the Zeiss works. According to Professor Görlich, the Soviet research work is on an equal level with that at Jena. The equipment at Kiev is of German make. Production of multipliers at Kiev began in August 1953 and in September 1953 production had already reached about 3,000 pieces. Before starting its own production, Soviet industry had RCA equipment available, which was obtained in adequate quantity from England, Sweden and Poland.
4. The VEB Optik will build a branch plant of the Zeiss works at Saalfeld, Thuringia, for which 24 million marks have been made available. The plant will manufacture chiefly electronic-optical equipment.

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