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25X1 CLASSIFICATION HETELLOFAX 4 WIT.M.TION CENTRAL INTELLIGENCE AGENCY REPORT INFORMATION REPORT CD NO. DATE DISTR. 17 December 1952 COUNTRY East Germany Zeise Infra-Red Research and Development NO. OF PAGES 1 SUBJECT 25X1 NO. OF ENCLS. PLACE QUISTED BELOW! ACQUIRED SUPPLEMENT TO DATE OF REPORT NO. INFO. THE DOCUMENT CONTRINS INFORMATION AFFECTIVE FRE NATIONAL OFFENSE FOR THE UNITED STATES, WITHIN THE UZANING OF THE 18, SECTION 70 PM PM 784, OF THE U.S. COOR, AS AMENING. ITS THIS SECTION 70 PM THE THE SECTION OF THE USE OF THE USE OF THE THE THE THE THE SECTION OF REPUBLICATION OF THE SECTION OF THE SECTION OF THE SECTION OF THE FORE IS PROMISTICAL. THIS IS UNEVALUATED INFORMATION

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- At the end of 1,50, the Leuna works requested VEB Carl Leiss, Jens, to resume infra-red research and development in order to develop an infra-Leuna desired the instrument to examine liquid red photometer; mixtures. The Construction order was given to the Zeiss Messlabor (laboratory for the development of measurement devices) in the spring of 1951. Since then, Dr. (fmu) Bolz and his assistants have been engaged in the developmental work. Their original plan to use optical screens (Girter) was awandoned after it turned out that the only screen-making machine in Leiss did not function with accuracy; a relatively long period of tame would elapse before the machine could be brought to sufficiently accurate performance. Dr. Bolz and his assistants therefore turned to crystals from sodium chloride produced in the Kristallabor of the works (Laboratory for the production of crystals) under Dr. Rebentisch. So far, they have succeeded in producing three-edge salt crystals with an angle of 50 degrees and a height of six centimeters. It is expected that the laboratory will be able to produce the same type of crystals with a height of 10 centimeters by the spring of 1953. The Messlabor has completed drawings for the Infrarotphotometer fuer die Untersuchung von Molekularberegungen (infra-red photometer for the investigation of nelecular movements); construction of the first model is to start before the end of October 1952, and is expected to be completed by the spring of 1953. Br. Bolz expects to experiment with the sample for about nine combis before an improved model can go into production.
- 2. The device, in combination with a bolometer produced in allabor, the electrical development laboratory of Zeiss, will be able to cover a range of up to 24 micron.
- 3. There is no other infra-red research and development now at Seiss. The plant is not engaged in the development of infra-red military equipment such as night-vision devices. It is, however, expected that Seiss will start this type of production in the near future.

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