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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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SUBJECT	Quantity and Types of Optical Machinery and Equipment at Zavod 393 in Krasnogorsk and at Zeiss in Jena	DATE DISTR.	25 August 1953
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ZAVOD 393, KRASNOGORSK (N 55-51, E 37-19), USSR

1.

all optical glass used at Zavod 393, from 1946 until 1952, was brought to the Zavod from Zeiss in Jena in the course of the dismantling and transfer of the Zeiss plant to Zavod 393. There was no indication that shortages existed in optical glass at Zavod 393, and the quality was good.

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2.

All lens grinding and polishing machines at Zavod 393 had been transferred from Zeiss in Jena. The number of machines for lens production and for metal parts fabrication at Zavod 393 amounted to approximately one-third of the entire Zeiss plant in

25 YEAR RE-REVIEW

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Jena as it existed prior to the dismantling in 1946. There were perhaps 100 lens grinding machines with multiple spindles (ranging from 6 to 24 per machine). These same machines also had polishing adapters which could be used interchangeably with the grinders. There were at least 300 milling machines, all of similar size, with about half of this number of the vertical type and the other half horizontal types, all from Zeiss, Jena. There were at least 100 metal grinding machines of all sizes.

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The largest category of machines transported to Zavod 393 was lathes. There were at least 200 small mechanic's lathes (Mechaniker's Drehbänke) for light assembly work; at least 100 medium lathes, and a minimum of a 100 heavy lathes, the two latter sizes used for regular production work. In addition, there were numerous boring machines and drill presses, both large and small, as well as other smaller machine equipment, all from Zeiss, Jena.

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Soviet types were also in use, since a shortage seemed to exist in this grouping, especially of the boring machines.

3.

Zavod 393 had an apprentice program with approximately 200 boys and 100 girls enrolled. A part of the group, both boys and girls, attended the apprentice school in Krasnogorsk and the others actually worked in the plant.

Their course of training appeared to last approximately two years, but this is difficult to determine accurately.

ZEISS PLANT, JENA, GERMANY (SOVIET ZONE)

4.

the Zeiss plant in Jena, Germany, does not supply any production machines to Soviet bloc optical plants. From 1947 (since the dismantling) to the present time, the Zeiss plant has been engaged in restoring its own production facilities.

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The absence of dividing engines, especially in the unusual or non-normal sizes, is hampering present production at Zeiss. It should be noted that even as late as last year one of the greatest problems in the experimental department was the difficulty in getting proper or adequate machines and equipment. did not get sufficient numbers of light boring machines, small milling machines, and mechanic's lathes. Furthermore, actual hand tools, drill bits, and assorted shop tools were in extreme short supply, all of which made normal work activity a difficult problem. This shortage probably still exists since there seemed to be no sign of improvement.

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