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INFORMATION REPORT

REPORT

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SUBJECT Planned Production at Optik Carl Zeiss,
VEB, Jena

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PLACE ACQUIRED

SUPPLEMENT TO REPORT NO.

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THIS IS UNEVALUATED INFORMATION

1. 1952-1953 development program

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- a. Test (tube) glass condenser for hand spectroscope "C" and camera for hand spectroscopes

Workshop drawings will be prepared in 1952.

- b. Glass prism spectrograph working in the visible region of the spectrum

Development is not possible until 1953.

- c. Pfeilsticker's interrupted arc apparatus (Abreissbogengeräet nach Pfeilsticker)

Development has been proceeding for a long time, but has been frequently shelved. It is now supposed to be finished in the first quarter of 1952. Carl Zeiss proposes to test and compare the recently finished apparatus of this type made by Elektro-Apparate-Werke, Berlin-Treptow, SAG KABEL.

- d. Methane-interferometers (Grubengas-Interferometer)

Carl Zeiss, Hamburg, has notified Jena of its requirement for 15 instruments. But development is not at present possible at Jena, because of more urgent tasks.

- e. "Konimeter"

These are under development at Carl Zeiss. Some essential data from an unspecified work are still lacking. Carl Zeiss is trying to procure this work.

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f. Photoelectric recording photometers

Development is to begin in January 1952 and will take about 10 months. Requirements for this apparatus are likely to be about 50 the first year and then 20-30 per year.

g. Photoelectric auxiliary equipment for the Pulfrich photometer

This is still under development.

h. Colorimetric apparatus for the Pulfrich photometer

Development work will take about a year. Allowing for the subsequent tests and adjustments, mass production is expected in 1954.

i. Flame photometers

The necessary further development work cannot be finished in 1952.

j. Photoelectric turbidity meter

A test instrument is being built for Professor Knoell. Mass production cannot be expected before 1954.

2. 1952-1954 mass production program

It is expected by Carl Zeiss that the following apparatus will be in mass production in 1952-1954.

a. Spectral projector: Fourth quarter of 1953.

b. Circular polarimeter: (Kreispolariometer). Difficulties are being experienced with the poor quality of the polarization filters. 1952-1953.

c. Hand spectrosopes. 1952-1953.

d. Reflectivity monochromators. 1952-1953.

e. Leucometer. Mass production was supposed to start at the end of 1952, but this is now doubtful. An exhibition model for Norway is ready.

f. Loop galvanometer

A model should be ready for testing in June 1952. Pilot production (0-Serie) is foreseen in 1953 and mass production in 1954.

g. Photocell units and test alternating devices (Photozellenkasten und Probenwechselforrichtung).

Development work is finished. Mass production is expected at the end of 1952 or beginning of 1953.

h. Projection electrometer

A test model should be ready by the end of January 1952. Allowing for testing and the necessary adjustments, mass production can be expected in 1953.

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3. Discussion of the possible production of certain photometric instruments

On 20 December 1951 the directors of Carl Zeiss discussed whether the firm should include certain photometric instruments in their future production plans. These were:

a. Photometer benches (Photometerbaenke)

Orders for these instruments were likely to be about 25 per year: 3-5 of these would be for the DDR and the rest for the USSR and Satellites.

b. Ulbricht spheres (Ulbricht sphere-type photometers)

Diameter about 0.5 - 1.5 meters. Demand would be the same as for a. above.

c. Photometer heads (Photometerkoepfe)

Demand would probably be rather higher than for photometer benches.

d. Turning mirrors

e. Flicker photometers

} Demand: rather less than for photometer benches.

It was considered that demand for the above instruments would be on special orders only: for example, Ulbricht spheres would probably be needed in varying diameters. Market research in the Orbit countries was recommended. It was also decided to consider handing over production of these items to MGF (Medizinische Geraete-Fabrik, Berlin).

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