

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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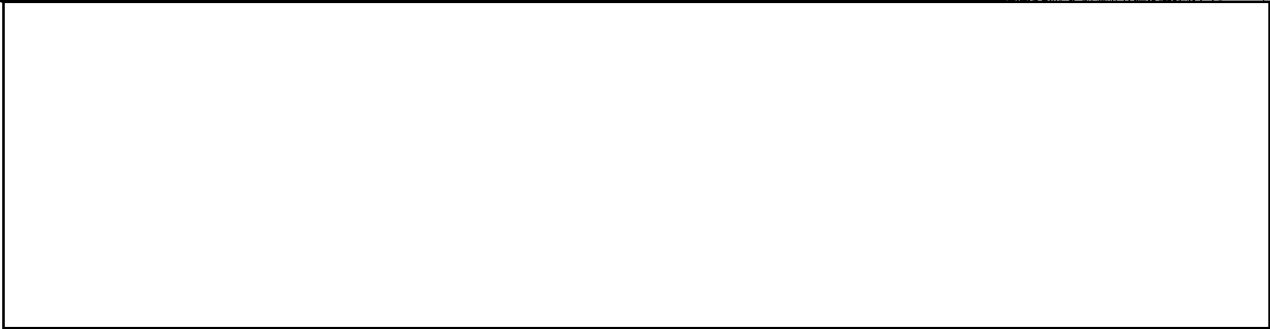
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COUNTRY	East Germany/USSR	REPORT NO.	
SUBJECT	Projects Conducted at Zeiss, Jena, and Zavod 393, Sorki	DATE DISTR.	30 October 1953
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THE APPRAISAL OF CONTENT IS TENTATIVE.
(FOR KEY SEE REVERSE)



25X1 TV-1 SECTION, ZEISS, JENA

1.

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a. Component parts for an electro-mechanical fire control apparatus for use with fused projectiles. This was, for some unknown reason, built as a more or less laboratory model. It possibly could have been the Command Set No. 45

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- 25X1 b. Component parts for a smaller computer for use
25X1 with non-fused projectiles. This had the type
designations VIS-MU and [redacted]
[redacted] was never used by the armed forces.
- 25X1 c. Various component assemblies for fire control
25X1 equipment for the Navy Department. [redacted]
[redacted]
- d. Component parts for a gyroscopically stabilized
tank sight.

- 25X1 2. There was no interruption [redacted] when the Soviets
took over ZEISS, JENA. [redacted] section, TV-1 had its
designations changed to KOV, (KONSTRUKTION oder
VERSUCHSSTESCHE) (etc), Konstruktion or Experimental Office, etc.

25X1 [redacted]

25X1 [redacted]

25X1 PROJECTS ENGAGED IN AT SORKI

- 25X1 3. [redacted]
- No. 14, which was partitioned off. The head of the
group was Walter BERNST. General NIKOLAYEV was
head of an adjacent laboratory in which no Germans
were allowed. This laboratory adjoined that of Prof.
25X1 GOERLICH. [redacted] At the end of
December 1948, all Germans in SORKI were segregated
in one part of the plant.

- 25X1 4. [redacted] SORKI [redacted] projects.

- 25X1 a. Reconstruction of part of the work performed
25X1 at Zeiss. [redacted]
- 25X1 b. Development work on various jigs for the Soviet
copy of the Leica camera, which was being produced
at SORKI.
- c. Development of aerial camera shutters. Nothing
new or startling in design was in evidence in
these shutters.
- d. Development of a conventional type of dryer for
aerial photographic negatives.

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25X1 e. Construction of certain component parts.

25X1 f. Construction of the mechanical parts of a simplified form of a fire control computer.
 this was
25X1 to be used with unfused 20 mm. projectiles.
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25X1 g. Construction of a panorama type of camera for trench use. No new design features were incorporated in this device.

25X1 h. Construction of the electronic amplifier for the tau-meter.

5.
25X1 . All the infra-red devices under development at ZEISS, Jena during World War II were collected and taken to SORKI along with Prof. GOERLICH. they were all passive devices. Machining difficulties were experienced in the manufacture of the rotating disks for the tau-meter.

25X1 was rumored among the Germans that they were being manufactured there.

25X1 CERTAIN ITEMS IN SHORT SUPPLY

6. There apparently was no lack of precision measuring instruments. They had all been taken from ZEISS, JENA, and were in good condition.

25X1 The vacuum tubes which were used had come from Moscow, and performed fairly satisfactorily. The group brought their own stocks of materials from ZEISS, Jena, such as stainless steels, bronzes, drill rod, electrical wire, etc.

25X1 A particular size of copper wire for electrical resistance uses, size 0.04 mm. in diameter, was difficult to obtain. no constantan or maganin low temperature coefficient of electrical resistance wire. large backorders of enameled copper wire from USSR catalogs, but never seemed to get delivery.

25X1 it was the policy of all Soviet factories to make their own equipment, so untold man-hours were utilized in this work.



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Comments: This report generally confirms the information given [redacted] as well as presenting additional details. There is still no definite evidence that Pbs photocells, or any other kind of photocells, are being produced at Zavod 393. It can be more or less assumed that wherever GOERLICH is located, he will be associated with photocell development. It seems not unlikely that the Soviets, possibly disappointed with the development of the Pbs cell at Zavod 393, are now allowing the GOERLICH group a little more freedom in this development program at ZEISS, Jena. The comment [redacted] on the inability to get low temperature coefficient of resistance wire would seem to indicate a possible bottleneck in the precision resistor supply in the USSR. [redacted]

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