

CENTRAL INTELLIGENCE AGENCY

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INFORMATION REPORT

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THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.  
THE APPRAISAL OF CONTENT IS TENTATIVE.  
(FOR KEY SEE REVERSE)

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1. [ ]

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2. [ ]

25X1 [ ] The tubes [ ] from OSW, Berlin, had Soviet designations,  
25X1 and [ ] approximately 50 per cent were returned because of  
25X1 faults. [ ]  
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3. [redacted] Leningrad [redacted] in the TV institution where the O series (first of any lot) was constructed. These were magnetrons, in addition to iconoscopes. Walter HASS, department engineer, chief of the High Vacuum Department in Adlershof, is presently working on iconoscope development and research at Adlershof, because the East Zone does not have this tube yet. He was placed in charge of this small department of approximately ten engineers.

[redacted] In the middle of 1951 and summer of 1952, Dr. ECKERT (from OSW) joined Adlershof as a consultant. He is a member of the Academy of Science, Berlin. He is a specialist on photo-cells containing secondary emission multipliers. He developed his own type of scanning device while at OSW, which was purchased by Adlershof. At the Heinrich Hertz Institute, he worked with Prof. HACHENBERG, a consultant in the same field. This photo-cell is being developed further by these two. Adlershof received its scanning tubes from OSW. In 1951-52 OSW depended on Weisswasser, near Gerlitz, for the glass. When personnel left the Weisswasser plant for the West Zone, OSW had to look elsewhere for this glass. ARTMANN of OSW was the glass blower who made the intricate portions of the glass tube for Dr. ECKERT. [redacted] compared the iconoscope developed by Dr. ECKERT with the iconoscope made by Fernseh A.G., Darmstadt. [redacted] it very primitive and not as good as the one made by Dipl. Ing. HASS. It should take another two years for the East Zone Adlershof to develop an iconoscope as good as that of Fernseh A.G., Darmstadt. This is mainly because of inexperience on the part of Adlershof. [redacted] RFT, Erfurt, is working on amplifier tubes today.

4.

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6.

[redacted] copied the USA type without an iconoscope camera, using a cathode ray tube. [See diagram, page 4] This was used in Adlershof as late as December 1951, because the iconoscope for the camera was not yet developed. Flying spot scanner techniques were not used in the USSR nor in Adlershof today, but [redacted] they were used in 1937 in Germany.

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Moscow beamed 40 km to Fryazino

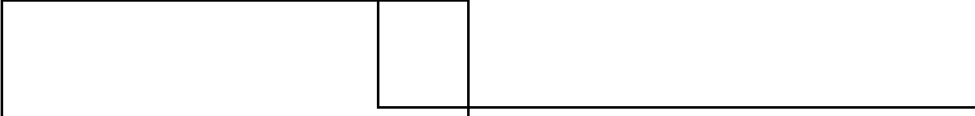
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OSW and called the

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"butterfly type" antenna.  
er gain.

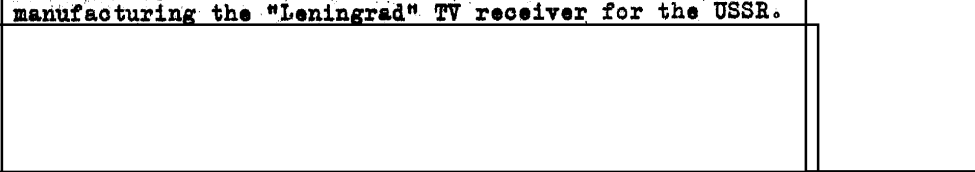
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This equipment came from Sachsenwerke  
in Radeberg near Dresden, Germany. This plant is presently also  
manufacturing the "Leningrad" TV receiver for the USSR.

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9.

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For glide bombs, the beginning (in 1945) was at Fernseh GmbH  
Tannwald (Iser mountain), Sudetenland, Germany. Prior experiments  
(1943-4) of the glide bombs were held at Peenemuende, Germany, under  
the German Post Office. Approximately 200 cameras for these glide  
bombs were removed and hidden, mainly in West Germany (1945). In  
1951, the Secret Department of the TV Institute in Leningrad con-  
tinued to work on the German TV camera, under the chief, Zakharov (fnu).  
In the opinion of us Germans, the Soviets did not further develop  
this TV camera, because they could not ask us questions as we would  
then know that they were working on it. In East Germany  
perhaps Germans and Soviets are working on TV for military purposes,  
but this is merely a personal opinion.

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the Soviets may have given TV a high priority, but this is pure  
conjecture

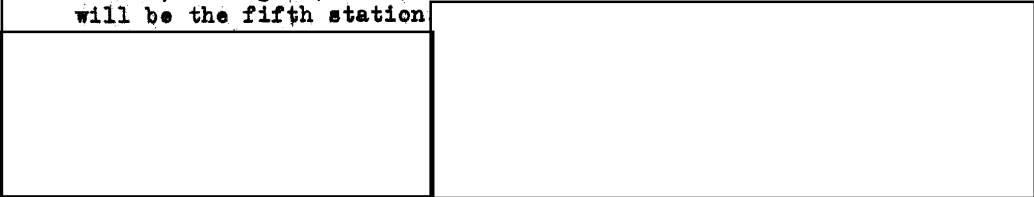
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the USSR was developing telecasting for

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Moscow, Leningrad, Kiev, Sverdlevsk. Perhaps Adlershof centrum  
will be the fifth station

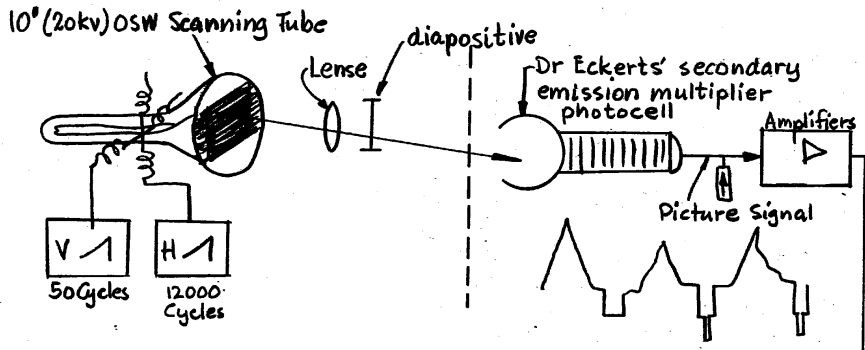
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11.

S E C R E T

VIDEO FILM SCANNING ARRANGEMENT



then to decimeter system and beamed to the "Stadthaus" where it was demodulated from the "decimeter" frequency to the "meter" frequency.

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