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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

REPORT

CD NO.

25X1

DATE DISTR.

4 November 1955

NO. OF PAGES

5

NO. OF ENCLS.  
(LISTED BELOW)

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SUPPLEMENT TO  
REPORT

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COUNTRY USSR (Black Sea)

SUBJECT Atomic Energy Research Institute at Agudzeri

PLACE  
ACQUIRED

DATE OF  
INFO.

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THIS IS UNEVALUATED INFORMATION

[Redacted]

Attached is [Redacted] forwarded as received.

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Comment: Throughout the report, read Agudzeri for Agudsheri.

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[Redacted]

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CLASSIFICATION **CONFIDENTIAL**COUNTRY **USSR**

REPORT

TOPIC **Nuclear Research Institute of Professor Gustav Hertz in Agudzheri**

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EVALUATION

PLACE OBTAINED

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DATE OF CONTENT

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DATE OBTAINED

DATE PREPARED **24 February 1955**

REFERENCES

PAGES **2** ENCLOSURES (NO. & TYPE) **1 - sketch with legend on ditto**

REMARKS

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1. Transformers constructed for the electric unit of the high vacuum part of the mass spectrometer included among others those with a primary circuit of 220 V and a secondary circuit of 1,000 to 3,000 at an anode voltage of 250 to 300 V. The deflecting magnets with iron cores produced at the institute had a spool of 5 mm brass sheet and 24,000 windings of CU enamel copper wire, 0.65 mm thick. Other transformers produced included units between 5.10 and 14 kw.<sup>1</sup>
2. Dr. Schuetze (fnu), deputy chief of the institute until 1947, was ordered to construct a mass spectrograph. Since there was no progress in this project, Dr. Schuetze was released from his position as deputy chief to give him more time for his project. The first unit completed in November 1948 was shipped to Moscow. By August 1950, about seven more mass spectrographs were built after this model and also shipped to Moscow. Three of these units were built during the spring of 1949, three in 1949/1950 and one during the summer of 1950. Dr. Schuetze allegedly worked on this project in cooperation with a Leningrad institute which he also visited. The German experts Knabe (fnu) and Rietze (fnu), his assistants, are still in the USSR. No technical data on the mass spectrograph could be obtained.
3. German experts who were transferred from the Agudzheri to an unknown destination included Friedrich Bayer, mechanic, Weise (fnu) who prepared the materials and Boettcher (fnu), a fitter.
4. The experts were not allowed to leave the institute for their vacations. Professor Hertz repeatedly flew to Moscow where sometimes he stayed for four weeks. Dr. Schuetze flew to Moscow and to Leningrad and Dr. Muehlenport (fnu) occasionally went on short duty trips.
5. Salaries paid to German experts included:
 

Professor Hertz	10,000 Rubles
Dr. Schuetze	6,000 Rubles
Dr. Muehlenport	5,000 Rubles
laboratory personnel	2,000 Rubles
craftsmen	1,900 to 2,100 Rubles.

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In December 1948 and in spring 1950, Dr Schuetze received bonuses of 50,000 Rubles each.



Comment. For a sketch of the transformer for the mass spectrograph, see Annex .

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Annex

Transformer for Mass Spectrometer, Constructed in Azudzheri

Legend:

I Sketch

- 1 Flexiglass
- 2 14 to 20 kV unit
- 3 Same as 2
- 4 Spool, 220 V  $\pm$  0
- 5 Earthing, copper foil
- 6 Cardboard box

II Switching Diagram

- 7 Primary circuit
- 8 Secondary circuit

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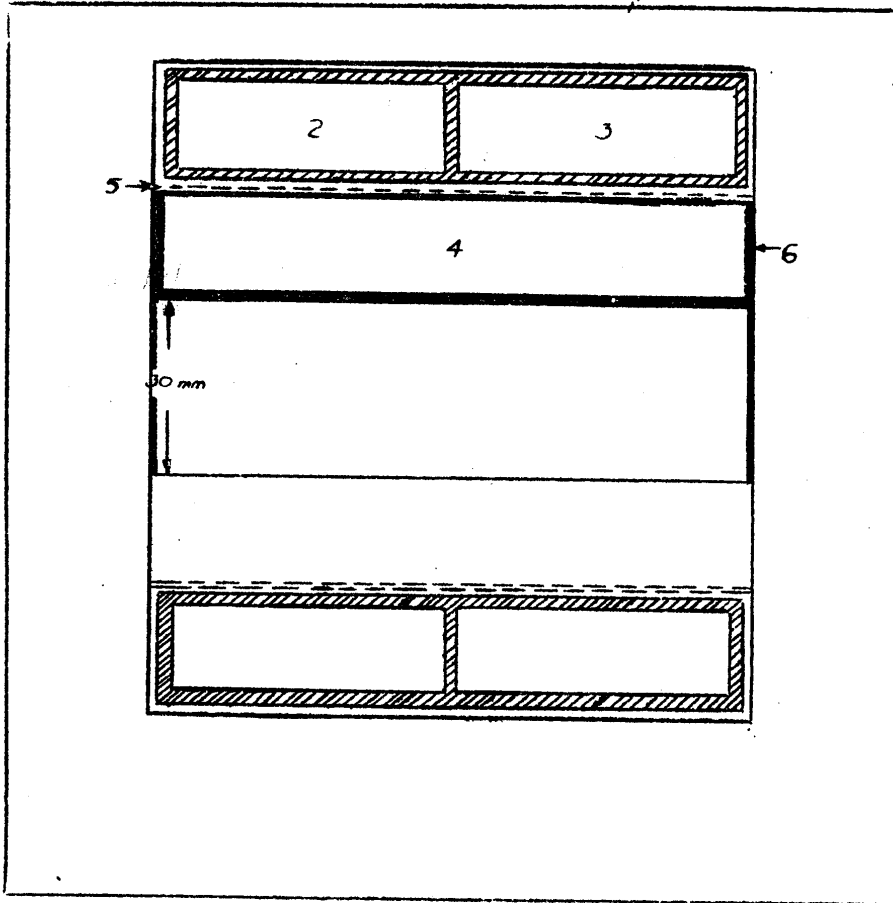
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Legend to Annex 1

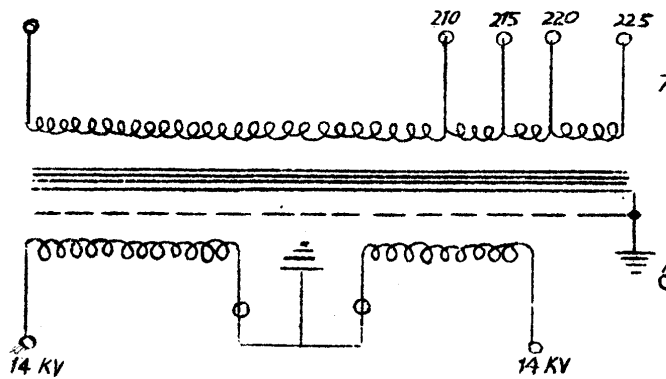
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I



II



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