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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY	USSR (Sverdlovsk Oblast)	REPORT	<input type="text"/>	50X1
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C O N F I D E N T I A L

REPORT [redacted] 50X1.

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COUNTRY : USSR

DATE DISTR. 16 FEB 54

SUBJECT : Additional Information on Production at
Zavod 659, Sverdlovsk

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SUPPLEMENT TO
REPORT [redacted] 50X1

THIS IS UNEVALUATED INFORMATION

[redacted]

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1.

The following "Naryade" for rectifiers used with
electrolysers [redacted]

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- a. The large order for the electrolytic plant in Murnansk; this was a large aluminum electrolysis.
- b. The orders for the aluminum electrolysis in Zaporozhye-Dnepropetrovsk; [redacted] this plant is located approximately 22 km. from Zaporozhye and can be reached from there by streetcar.
- c. The order for the zinc electrolysis in Chelyabinsk in the Ural Mountains.

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[redacted]

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2.

From 1946 to 1948 the production of rectifiers at Zavod 659 mounted with the completion of the new building for fabrication. From 1948 to 1952 it remained fairly constant. During these years approximately 120 to 150 units (each unit consisting of an arrangement of six single anode pots) of rectifiers were produced. Slightly more than 50 per cent of the production was used for railroad electrification (3300 volt, 500 ampere); the remainder, generally for electrolytic plants (electrolysis). After 1950 it appeared that the percentage share for electrolysis declined and that the production share for railroad electrification increased.

3.

A so-called assembly department (Montage Abteilung) existed at Zavod 659; its personnel assisted and/or advised consignee plants on the installation of mercury vapor rectifiers. From time to time (whenever more difficult installation problems arose) members of the laboratory for mercury vapor rectifiers at the plant were also assigned to such jobs. The three electrolysis installations [redacted] were installed by assembly engineers from Zavod 659 and later visited regularly by them. [redacted] the installation at Murmansk started to operate in the winter of 1950/51; the installation at Zaporozhye with its new rectifiers, sometime in 1949. (An electrolysis with an old type of rectifiers existed previously in Zaporozhye.) Finally during the years 1948 to 1952 assembly engineers from Zavod 659 were continuously dispatched to the railroad electrification projects, mainly to the Ural Mountain railway and the mountain railways in the Caucasus.

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4.

The Soviet type designation of oil-switches [redacted]

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[redacted] the following Soviet designations for rectifiers and parts thereof:

	<u>Soviet</u>	<u>English</u>	
a. Single Anode Pot (rectifier)	B-500	V-500	
b. Single Anode Rectifier arranged in groups of 6 (or 12)	PMHB x 6	RMNV x 6	
	PMHB x 12	RMNV x 12	
c. Quick-break switches (Schnellschalter)			
	older type:	BAS-2	VAB-2
	newer type:	BAS-9	VAB-9
	even newer type:	BAS-10	VAB-10

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