

INFORMATION REPORT

CD NO. 25X1

COUNTRY East Germany

DATE DISTR. 20 October 1952

SUBJECT Analysis of Coal used in the Harbke Power Plant

NO. OF PAGES 2

PLACE ACQUIRED [] 25X1

NO. OF ENCLS. (LISTED BELOW)

DATE OF INFO. []

SUPPLEMENT TO REPORT NO. 25X1



* Documentary

THIS IS UNEVALUATED INFORMATION

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT 50 U.S.C. 31 AND 32, AS AMENDED, ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. REPRODUCTION OF THIS FORM IS PROHIBITED.

25X1



The following is a table showing the properties of the coal used in the Harbke power plant. The table was prepared in 1948 by the Ingenieur-Technisches Konstoffbüro in Leipzig, but the data is valid for 1952.

Boiler (Steam) Coal

Water	45.88 %
Ash	7.49 %
Carbon C	33.09 %
Hydrogen H ₂	2.64 %
Sulfur S	1.64 %
Nitrogen N ₂	0.33 %
Oxygen O ₂	8.93 %
Net calorific power	2796 thermal units
Calorific value, pure coal	6583 thermal units
Specific weight	1.243

Sieve Analysis

40 mm. sieve	17.2 %
30 mm. "	7.0 %
25 mm. "	4.0 %
20 mm. "	6.5 %
15 mm. "	8.0 %
10 mm. "	13.4 %
4 mm. "	18.0 %
3 mm. "	4.7 %
2 mm. "	4.7 %
Passage (Durchgang)	16.5 %

Fixed Carbon	38.42 %
Volatile Substance	61.58 %

STATE #	<input checked="" type="checkbox"/>	NAVY	<input checked="" type="checkbox"/>	NSRB		DISTRIBUTION								
ARMY #	<input checked="" type="checkbox"/>	AIR #	<input checked="" type="checkbox"/>	FBI										

SECRET

- 2 -

25X1

Ash Analysis

SiO ₂	16.41 %
Fe ₂ O ₃	16.30 %
Al ₂ O ₃	15.59 %
CaO	20.77 %
MgO	0.40 %
SO ₃	29.90 %
Na ₂ O	0.25 %

Beginning of Sintering	1070°C
Beginning of Fusing (Erweichung)	1215°C
Fusion (Schmelzen)	1265°C

25X1

i. Comment. Harbke near Helmstedt (M 53/ T 20).

SECRET