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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY	East Germany	REPORT	25X ²
SUBJECT	Research and Production at	DATE DISTR. 16 December	
SOBJECT	Elektrochemisches Kombinat Bitterfeld		1973
DATE OF INFO.	pircelierd		25X ²
		REQUIREMENT NO. RD	25%
PLACE ACQUIRED		REFERENCES	25 X 1
	This is UNEVALUATED	Information	
	THE SOURCE EVALUATIONS IN THIS REF THE APPRAISAL OF CONTENT II (FOR KEY SEE REVERS	S TENTATIVE.	
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	earch Assignments . State Secretariat for Chemistry (•	
fac for	tory in July to submit a draft stu the following 1954 research assig (1.) Caustic alkali (2.) Iron powder (3.) Alumina (4.) Chloromagnesium, anhydrous - (5.) Rare earths (6.) Oxalic acid	nments:	1953
	(?.) Aluminum and magnesium allo (8.) Metallic titanium (9.) Tar cracking (10.) Fluorine-containing vinyl ch (11.) Processing of the products o	loride mixed polymerisates	
1,00 pre	OO DM (East) each was allocated to paring the study proposals for iter	cover expenses incurred in ms 1, 7, 9, IO, and II.	
Guer	scientists concerned with these tenther Holst, Dr. Kunzel-Mehner and Dr.	Ch. Ing. Henneberger,	25X
2. <u>1953 Res</u> e	earch Assignments Cancelled		
The follo	owing research assignments have be	en cancelled:	X.
	a. Fluorine b. F3 - 20. Trichlorostyrol. No	work whatsoever had been	****

(Note: Washington Distribution Indicated By "X"; Field Distribution By "#".)

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- c. V3 10. Carbon tetrachloride.
 d. V3 05. "Wirbelschichtverfahren"

3. Movements of Scientists and Others

Dipl. Chem. Frl Urbanek of Dr. Hennig's department left the department in July or August 1953.

Frl. Dr. Guenther of the Central Laboratory left in September to go to 25X1 University.

Dipl. Chem. Menzer joined the Central Laboratory from Leipzig on 1 September.

Dipl. Chem. Toerpel joined the Central Laboratory on 1 September 1953.

Dr. Kadach transferred to the pentachlorophenol and hexachlorcyclohexane plant from the carbon tetrachloride and chloral plant on 1 August. His former responsibilities have been added to those of Dr. Kaltenborn.

Dr. Erhard, head of the Office for Technical Control, has resigned his post as second secretary of the SED group.

Schwarz, first secretary of the SED group, has transferred to the Leuna factory to replace Jonas (formerly also at Bitterfeld) who has been fired. His successor will probably be Bothur, until then third secretary of the SED group.

4. Fluorine polymerisation

Dr. Schumann has succeeded in producing a white powder consisting of 90 percent CH2CHCl and ten percent CH2CCIF, and a yellowish block of polymerisator CH2CCIF.

5. Zirconium dioxide

- (a) One of the 1953 research tasks of the EKB was the development of a process for the production of zirconium dioxide and the production of sufficient quantities of this chemical to satisfy the needs of the DDR wireless valve industry. The factory proposed to build for this purpose a chlorination kiln similar to that designed recently for the treatment of ilmen te. It was proposed to use as raw material stocks of zirconium-containing sand stored in Berlin.
- (b) Wolf of the Coordinating Office visited Bitterfeld in this connection on 9 July 1953. He said:
 - (1.) The matter was very urgent. Deputy-Premier Rau had granted a special bonus for the rapid olution of the problem.
 - (2.) Werk HF, Oberschoeneweide, still required about 500 kg per year of zirconium dioxide.
 - (3.) Boitzenburger Plattenwerke also required ca. 4 tons per year of zirconium oxide for glazing special wall tiles.
 - (4) The radio valve industry also required 500-1000 kg per year for zirconium metal in ductile form. The EK Bitterfeld would probably be requested to work on this as well.
 - (5) About 15 tons of zirconium sand were available free of charge in Berlin. This quantity came from war stocks, previously erroneously believed to be Monazite sand. 75 tons of the original 90 tons had already been used by the ceramics industry.
 - (6.) A large scale operation was being mounted to recover zirconiumcontaining sand from the Baltic coast. Wet concentration will be done in Nuenchritz and magnetic separation in Magdeburg.

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(c)	There are probably further quant water mark. The sands occur all of Ruegen and Hiddensee. The Warich. zirconium (possibly zirconium si titanium sand (mainly ilmenite, of garnet.	there are some 35,000 able sands on the shores of East Germany. ities under the dunes and below the lowalong the Baltic coast, except on the islands rnemuende and Usedom areas are especially the sands consist of about 950-1000 tons of licate is meant), 10,500-12,000 tons of but some rutile), and 12,500-13,000 tons	25X1 25X1				
(d)	At present, the sand is hand-los per ton. It was hoped to reduce preliminary concentration at the was to be made available to the	a thin layer on the beach. Its thickness and and it is therefore difficult to collect. aded onto trucks at a cost of 1000 DM(East) at this figure to 100 DM per ton of a sea coast. 50,000 DM investment money VEB Ostsee Schurfe for this purpose.					
(e)	This sand was to be tested by the concentration experiments.	om borings made near Freienwalde. reiz-Toelau and also passed to Magdeburg for					
(f)	As soon as the large chlorination kiln was ready, the EKB was to undertake chlorination of "old" concentrates provided by Kali-Chemie. This work was to be interrupted only very briefly for test runs with the Magdeburg concentrates. The State Secretariat for Chemistry was to report by the end of September on the qualities required by the various customers, and the Coordinating Office was to decide on the allocation of any zirconium dioxide collected.						
(g)	1953 research assignment: Loca deposits in the coastal area wi	ogical Commission was to receive the following tion of possible fossil heavy mineral sand the the aid of geophysical methods.					
(h)	TCCP to obtaining girconium dioxide and						
(i)	same tions for the operation of a plant for the						
(j)) The following personalities ar	e connected with the program:					
	Dipl. Ing. Hegenbarth	Staatssekretariat fuer Chemie, Haupt- Abteilung Technologie und Rekonstruktion.					
	Korn) Wolf)	Koordinierungs- und Kontrollstelle fuer Industrie und Verkehr.					
	Dr. Wehner) Dr. Gebhard)	VEB Elektrochemisches Kombinat Bitterfeld.					
	Dr. Kaiser	VEB Schwefelsaeure- und Aetznatronwerk, Nuenchritz.					
	Dr. Steinmann	Schwermaschinenbau Ernst Thalmann (formerly Krupp-Gruson), Magdeburg.					
	???	VEB Chemiewerk, Greiz-Doelau					
	Dr. Heck	Aussenstelle Schwerin der Geologischer. Kommission.					
	Langberg) Guese (geologist))	VEB Ostsee-Schuerfe, Rostock.					

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Rat des Bezirkes Rostock.

Seehydrographischer Dienst, Warnemuende. 1

Warnke

Dr. Kolp

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6. Works meeting held on 9 September 1953

Dr. Heyder made the following statements among others during the course of his speech summarizing the work of the factory in the period ending 30 June 1953:

<u>Production</u> in the quarter amounted to 102,300,000 DME or 103.8 percent of the planned figure.

<u>Electric power</u> was insufficient. One shop of the aluminum works had had to be closed down. Production of chlorate, graphite and caustic potash had been affected.

<u>Production stopped</u> on the instructions of the State Secretariat included potash, toothpaste and "Bino" soup cubes.

Purest aluminum. 2,000 kWh more power was used during the period in the shop.

<u>Profit</u> was made on the sale of potassium chlorate, sodium chlorate, potassium bichromate, carbon tetrachloride, "Duplexan" and plastic pressed components.

Loss was incurred on the sale of potassium permanganate (103), yellow phosphorus (33), red phosphorus (33), hydrochloric acid (89), lime (10), tellurium dioxide (102), "Tisil" (6), chlorida of lime (25), rubies (29), ferrotitanium (66), ferrochrome (149), ferrotungsten (310), ferromolybdenum (65), magnesium products (14), tungstic acid (93), benzoic acid (142), tricresylphosphate (75), polyvinylchloride (53), aluminum (3000), purest aluminum (30), (Figures in 1000 DME.)

Shortages of PVC, sulphuric acid, coal briquettes, phenol.

Ilmenite available was not of sufficiently good quality.

Chlorine. 2,000 tons (5.7 percent) were surplus to requirements, and had to be allowed to go to waste.

Oxalic acid. The plant was old and inefficient. No V2A steel was available for renewal.

<u>Nitrogen</u> plant. Insufficient platinum-rhodium gauze catalysts. The less efficient cobalt catalysts had to be used in one-third of the plant. Production could be raised from the present 92 percent to 96 percent if this were rectified. The condenser capacity was also 12 percent too small.

Alumina from Lauter was not of the required purity.

Ferrotungsten production had been reduced by 50 percent because of a lack of orders. No raw materials were available for the ferromolybdenum plant. A fatal accident had occurred in the ferrochrome plant.

Werk Zscherndorf had been taken over by the factory. Plastic articles would be manufactured there. The plant had an annual capacity of 10,000,000 DME.

<u>Power Station</u>. Turbine No. 10, which was sent away for repairs, had not been returned. Instructions had been received that the works would be required to supply 20 MW more to the public grid: 10.5 MW would be released by reduction of consumption in the factory, the remainder by reorganization and rationalization.

Storage space was proving too small because of irregularity in dispatch.

1953 investments had been cut from 49 to 27 million DME. The projects affected were ferrotungsten, ferrovanadium, inorganic department cooling tower, garage, generator gas pipe line between Werk Sued and Werk Nord, hexachlorcyclohexane, methylene chloride, aluminum works 2 (1 shop would be ready in January 1954, the rest had been cancelled), magnesium. Only 11,000,000 DME had actually been used in the first half-year because of shortage of materials.

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Accident rate

Period	Total No.	incl. <u>serious</u> -	<u>fatal</u> -	occupational diseases
1952	1100	7	2	7
January-June 1953	406	6	2	0

Research and development

Fifty-one tasks in all were being carried out. Shortage of personnel had affected the program which included:

Alumina pilot experimental plant in Werk Nord. 27,000,000 DME.

<u>Lead-bearing metal</u> for the railways.

Special iron powder half-scale plant in Werk Nord. To be ready in the third quarter 1953.

Tar-cracking experimental plant to handle 200 kg tar/hour. Object is to win vinylchloride.

Hexachlorcyclohexane plant. Cancelled again.

Pentachlorphenol half-scale plant is already in operation.

PVC. A very pure transparent foil christened "Ekalon" had been produced.

Personnel.

One hundred and eighty-nine persons had signed individual contracts with the factory. Five hundred thirty-three had joined the pension plan, and a further 71 were under consideration.

1.	<u>Comment</u> . The priority given this project and the scale on which it is being carried out appear unjustified, if the zirconium is required only by the tube factories and the tile plant.	25 X 1
	Comment. the rare	25 X 1
	(inert) gas referred to is a meon-helium mixture and the price should be changed to read 12.75 DM per <u>liter</u> .	25X1

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