

INFORMATION REPORT INFORMATION REPORT 25X1

CENTRAL INTELLIGENCE AGENCY

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COUNTRY	Rumania	REPORT	
SUBJECT	Gheorghe Gheorghiu Dej Steel Mill, Hunedoara	DATE DISTR.	28 June 1955
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This is UNEVALUATED Information

APPROVAL OF CONTENT IS TENTATIVE

1. The Gheorghe Gheorghiu Dej Steel Mill is located north of the city of Hunedoara and is connected to the railroad station, which is east of the mill, by a standard gauge railroad line which is flanked by a Decauville track. The covered area of the mill is surrounded by a wall and covers an area of approximately 1,000 meters by 800. The plant is guarded by a company of special armed guards. They sleep in quarters outside the plant, although there is a guardhouse on the premises of the plant. 25X1
2. At present there is a labor force of 7,000 men, of whom 2,000 work in the blast furnaces. During the winter or whenever there is little demand for agricultural workers, an additional 500 to 1000 peasants are employed in the plant on a temporary basis. There are 300 workers employed in the offices. The wages of the workers vary from a minimum of 380 lei to a maximum of 1,000 lei per month in accordance with the fulfillment of their quotas and technical skill. There are three 8-hours work shifts daily.
3. The ore used by the plant comes exclusively from the Ghelar mines, located about ten kilometers southwest of the plant, and it is transported by means of a Decauville railroad and funicular railroad. Every day scrap iron arrives at the plant, as well as old railroad cars, old artillery pieces, shell casings, and ammunition, which is exploded in a special department.
4. The plant is exclusively a steel mill in that it produces only iron and steel in various shapes for mechanical construction plants and heavy industry plants. No machines of any type are manufactured there. Most of the products are shipped to the Resita locomotive plant and to the 23 August plant. All the products are loaded on freight trains within the premises of the plant.
5. The plant is divided into five sections: blast furnaces, rolling mills, steel works, maintenance section and electric shops. A sixth section is under construction and almost completed. 25X1

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(Note: Washington distribution indicated by "X"; Field distribution by "#")

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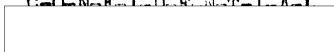
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- a. Blast furnaces: The ore arriving from Ghelar is brought directly to the burners by Decauville cars where they are automatically unloaded at 24 different burners. Each burner is manned by two workers, one from above to handle the loading and unloading of the ore, and the other from below to take care of the fir. The burners are in continuous operation for 24 hours a day and are kept in operation by both civilian workers and soldiers from labor detachments. The ore is then transported to the six blast furnaces which are 20 meters high and 8 meters in circumference at the base. Each blast furnace is manned by a squad of of 7 to 10 men. Only one of the furnaces is electric and it operates more efficiently and faster than the others. Of the other five furnaces, only four are in operation; the fifth one has been out of operation since 1953, allegedly as the result of sabotage. The electric blast furnace is the only new piece of equipment that has been added to the plant. It was put up in 1951-1952 by the Soviets, while the remaining installations were built by German engineers prior to 1944. Each casting of the electric blast furnace varies from 60 to 80 tons in accordance with the quality of the ore, while the casting of the other furnaces varies from 20 to 25 tons.
- b. The foundry is a large building measuring 50 by 30 meters and 20 meters high, where the casting is poured into conical moulds called shells which are removed when the casting has solidified. The resulting blocks, which weigh from 2.5 tons to 3 tons, are then transported by overhead cranes directly to the steel works.
- c. The steel works are located in a building 300 by 120 meters, and 40 meters high. There are five Siemens Martin furnaces which utilize both the pig iron from the blast furnaces as well as the scrap iron which is collected from all over Rumania. On the average, each furnace produces about 60 tons of steel every eight hours.
- d. The iron or steel arrives at the rolling mills as soon as they are removed from the molds or else in slabs one-half meter thick on small freight cars. The blocks are then placed inside "deep" furnaces from which they are immediately placed under one of the three rollers. Each block is rolled ten minutes, and according to the quality of the material and the skill of the workers, 40 to 60 blocks can be rolled during a period of eight hours. There are 1,500 workers in the rolling mills.
- e. The maintenance section is made up of two buildings; one 50 by 20 meters and and the other 70 by 30 meters. Repairs on equipment used by the plant are carried out in this section.
- f. Electric shop. This is a four-story building, approximately 30 by 20 meters, in which 80 workers are employed who keep all electrical installations and the power plant in operation. The power plant utilizes a waterfall located near the plant and has a capacity of 5,000 kilowatts. The waterfall is also used for other needs of the plant. The power plant furnishes 3-phase alternating current at 380 volts for electrical machinery, 220 volts for the lighting system and 50 volts for hand tools. In August 1954 construction began on a thermoelectric plant.
- g. The sixth section of the Gheorghiu Dej plant will began operating during 1955. The purpose of the new section is to utilize the by-products from the casting of the iron ore and of the coke which can be used in other industries.

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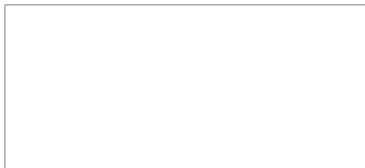
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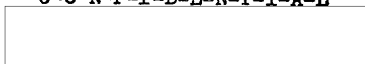
Legend for attached sketch of the Gheorghe Gheorghiu Dej Steel Plant.

- 1 - Main entrance (for workers and materials)
- 2 - Power plant
- 3 - Burners
- 4 - Blast furnace No. 1
- 5 - Blast furnace No. 2
- 6 - Blast furnace No. 3
- 7 - Blast furnace No. 4
- 8 - Blast furnace No. 5
- 9 - Blast furnace No. 6
- 10 - Iron foundry
- 11 - Maintenance section
- 12 - Second entrance
- 13 - Maintenance section
- 14 - Electrical shops
- 15 - New section under construction
- 16 - Iron foundry
- 17 - Main office
- 18 - Entrance for administrative personnel
- 19 - Rolling mills
- 20 - Steel works
- 21 - Thermoelectric plant under construction
- 22 - Hunedoara railroad station
- 23 - Railroad line leading to Ghelar mines



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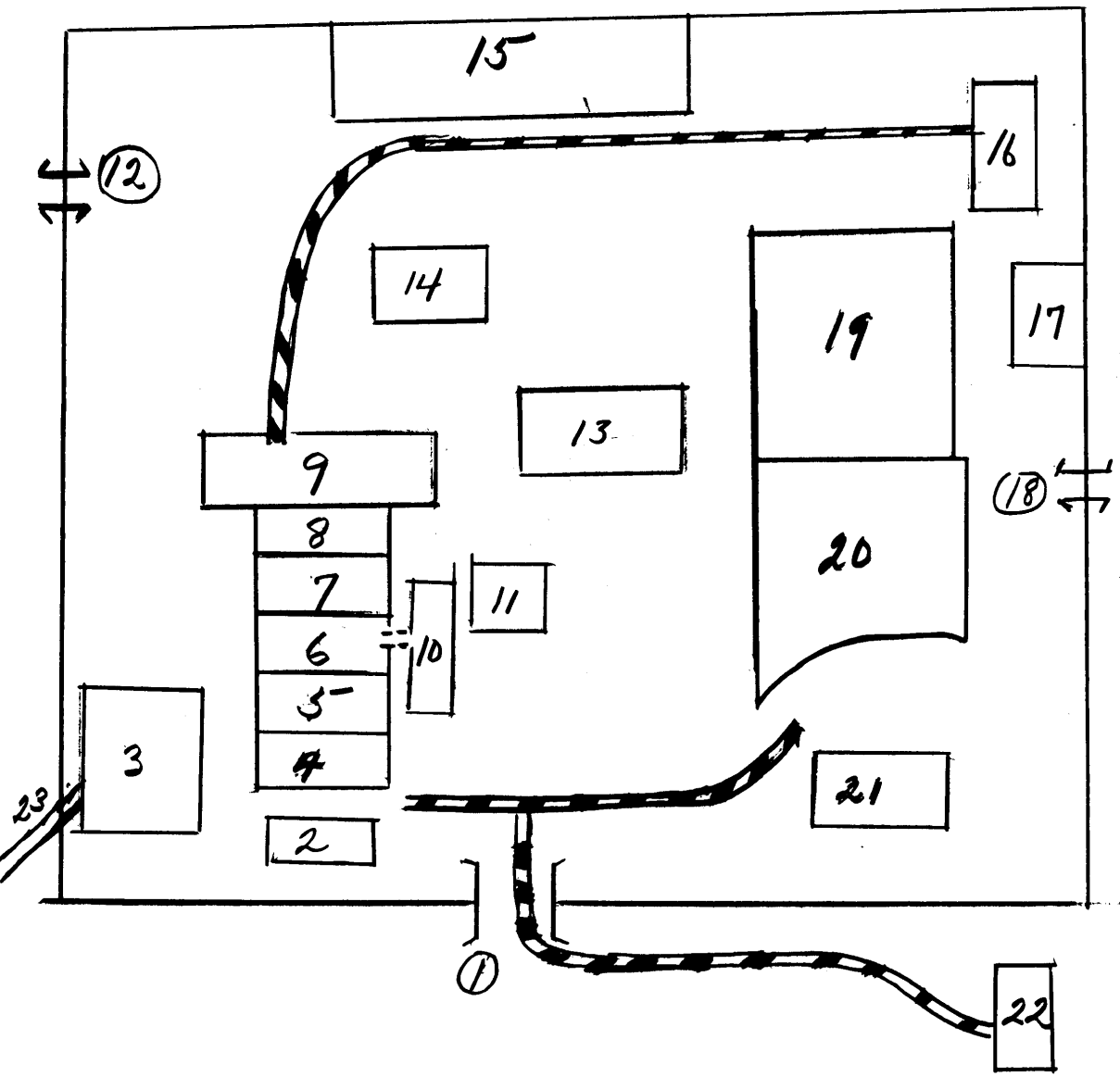
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Gheorghe Gheorghiu Dej Steel Mill, Hunedoara



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