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COUNTRY	USSR (Ukrainian SSR)	REPORT		
SUBJECT	Bolshevik Machine Building Factory in Kiey: ( ) Colored multi materice; info ou vorcous ships, including sketches, Security, mar pruch i	NO. PAGES	5 January 1959 1	
INFO. PLACE & DATE ACG				25 <b>X</b> 1
	a layout of the iron foundry at the f lations; and information on plant loc storage, production methods, finished packaging, and shipping; the water su cautions and security measures; the n and plant officials; and a "secret" s	th a legend lis Kiev showing t actory with a l ation, building products inclu pply and electr umber of employ hop controlled	The report con- sting 20 installations; ar the location of the factor egend listing 12 instal- s, raw materials and thei ding type, quantity, ic power, safety pre-	T A
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#### BOLSHEVIK MACHINE BUILDING PLANT IN KIEV

### General Description

1. The Bolshevik Machine Building Plant, located in Kiev, Oktyabraskiy rayon, near Pushkin Park, was bounded by Brest-Litovskoye shosse on the north, Pervomaiskaya ulitsa on the east, railroad tracks on the west, and Dachnaya ulitsa on the south. On page 7 in an overlay, showing the plant's location. It is plant was subardinate to the Ministry of Defense. The 25X1 plant manufactured military material primarily. There was a "secret" shop controlled exclusively by the military where explosives, be- lieved to be gunpowder, were cautiously unloaded. All products manufactured in the bronze section of the foundry were destined for the Navy and most of the products manufactured in the other shops were either for military or agricultural use. The plant employed approximately 5,000, half of whom were specialists.

2. The plant area, which was almost square in shape, was surrounded by a wall, part wood and part rubblework, which was approximately two and one-half meters high and had a 2,500 meter perimeter. The buildings were constructed before the Revolution and it was said that they had been occupied by Germans prior to that time. There were two front entrances, one for personnel and one for vehicles; both were on Pervomaiskaya ulitsa. Two rear exits connected with the rail siding which served the plant. New constructions were in progress between the laboratory, the methine and fitting shop, and the secret shop. On page 8 is and the new construction site. Following is a list of the shops. The numbers in parentheses refer to those on the sketch

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on page ö.

Steel shop 2) Garage Blacksmith shop and forge 4 5 6 7 8 Foundry (iron and bronze) Electric shop Secret shop which also contained electric transformers Compression shop Tool shop 9 Offices, contained in a three-story building of recent construction 10 Laboratory 11) Sheet metal shop 12 Machine and fitting shop 13 Carpentry and model shop 14 Boiler room 15 Transformers Gardens 16 Building under construction Clock tower 18

- (19) Entrances
- (20) Dumps for scrap, coal, and sand

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Foundry		
rectangular brick building Part of the building had a products One	produced iron and bronze three shifts. The foundry was a first with sheet-metal roof, about 200 x 50 second story containing offices. Man were manufactured was a large cast-iron boiler,	proof one-story x 15 meters. y different in the foundry. 2.5 meters in
believed to be more with a spherical or arche raised by a crane. Two bo	is deep, weighing 15 tons, with thick we than two centimeters thick, grayish h d bottom, and four handles around the ilers were produced daily. Other heav manufactured here, including slugs of g	lack in color, lip which were y parts of
manufactured, the most imp various types of gears. A	he foundry many parts made of differen ortant ones being tubing, valves, whee lmost all the materiel produced in the he Navy which frequently sent committe	ls, axles, and bronze section

- 5. The boilers and most of the materials manufactured in the foundry were transported by rail to other parts of the USSR and the production of the bronze section was sent to unknown ports.
- 6. The foundry contained the following installations, of good quality and in good condition; some was new make.
  of German and Soviet 25X1
  - 2 gas furnaces

3.

4.

2 cast-iron gas furnaces 2 electric furnaces

and test the products.

- 1 kneading machine, which was used to make sand and mortar 25X1 molds
  - 7 bridge cranes, with capacities of 10, 15, and 25 metric tons small mobile cranes, number not specified

Raw Materials

8.	brass, lead, nickel, aluminum, sand, limestone, slag, wood, mineral oil, gasoline, lead oxide, white lead, copper oxide, gunpowder, and gas. Most	
	were transported by rail	25X1
	The foundry used the sand, limestone, and slag; the wood was used for making models and for packing. A supply of some raw materials, mainly scrap-iron and coal more bard in the plant but but but is	·
	and coal, was kept on hand in the plant but there were no reserve stocks.	25X1
	Water Supply	25X1
<u>^</u>		2571
9•	no general water reservoirs in the plant; there were a few small ones in various shops such as the forge and steel and iron foundries which were adequate for their own needs but not for general use. no water pumps; the water pipes were underground and water was furnished by the city.	25X1

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## Sources of Energy

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- 10. The city provided the plant with electricity. Transformers supplying adequate electric power were located in a small shop to the rear of the plant. The electric cranes operated on 380 kilowatts, the plant's powerhouse on 130 kilowatts, and the electric furnaces on more than 1,500 kilowatts around these.
- 11. A tall brick smokestack was located next to the carpentry shop and the foundry had at least two metal smokestacks about six meters high. 25X1

## Production Volume

## Production Methods

13.

and when melted, was put in molds previously prepared with a mixture of sand, dirt, and dregs. After various operations, the products, including the large boilers described in paragraph 3 above, were sent to other shops, usually one equipped with lathes. Raw materials were submitted to high temperatures. In the bronze section the material was placed in hermetically sealed electric furnaces and submitted to a pressure of centrifugal force. The mixture was turned over and over by means of a mechanical device and cylindrical parts emerged, made of bronze or a similar alloy and weighing about 250 kilograms. These parts were one of the items most thoroughly checked by the naval inspectors. The operation was dangerous and at least twice, between 1950 and 1952, the boilers exploded during the melting process, causing some victims among the workers. metal was puri- 25X1 fied in the bronze section Transport was done by means of cranes and electric cars; small parts were carried by hand. the electric furnaces were operated 25X1 by pushing buttons placed on a nearby table where measuring apparatus was installed, the furnaces were automatic. 25X1

scrap-iron was placed in furnaces

## Packing

- 14. The finished products were packed in wood. When Navy representatives came to load material from the bronze shop, they brought packing materials with them or had them made under their supervision. Great care was taken in operating the cranes when handling heavy pieces, and materials were solidly packed and well centered on the railway platforms. Some items were given a coat of protective paint.
- 15. Most of the raw materials and finished products were transported by rail. Two railroad sidings entered the rear of the plant and were connected with the main line in Kiev. One of these sidings entered the plant at the north and serviced the steel and iron shops; the other entered through the south and served the carpentry and machine and fitting shops. Tracks were of Soviet broad gauge. Loading was done by cranes and the products were transported through the side entrance in closed railroad cars. These cars were

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mostly wooden with two axles; the locomotives were also small and old. Three or four trains loaded with iron, scrap-iron, coal, and limestone came daily to the iron foundry. Each train consisted of four or five cars and each car carried about 20 tons. Iron arrived in blocks weighing approximately 500 kilograms.

16. Small trucks, and sometimes wagons, were used for transport with less frequency than the railroad. The Brest-Litovskoye shosse which led to the plant was a 20-meter-wide concrete road with good drainage, open to traffic at all times. In the plant's vicinity was a parking area, next to the steel shop, and there was a small shop for repair and lubrication of vehicles. From 30 to 40 three-ton Soviet-made trucks, loaded with sand and sawdust, came daily to the foundry

#### Storage and Safety Precautions

17. Materials were stored throughout various parts of the plant; some, such as scrap-iron, lumber, and coal, were stored under sheds. Dirt and sand were kept outdoors and other sensitive materials, such as copper, nickel, bronze, and aluminum, were stored in small quantities in each of the storage rooms in the shops. Some materials were kept near the railroad tracks which served the plant. Inflammable material was usually kept outside. The plant had reserve firemen who drilled occasionally. Boxes of sand, fire extinguishers, and water hydrants were located throughout the plant.

Security

18. Guards were posted at the entrance and railroad gates. Also, there was a constant guard within the area and around the secret shop. The guards belonged to the Okhrana, not further identified; there were approximately-40, both men and women, working in three shifts. The conventional propusk was required for admittance to the plant; there was no difficulty in visiting any place within the plant except the secret shop.

#### Work Schedule and Working Conditions

19.	The normal work schedule was an eight-hour day, Mondays through Fridays,	
	six hours on Saturdays, and three shifts. Sundays, official holidays. and vagations were observed.	
	vagations were observed.	25X1
	the morning shift, employing approximately 1,000, consisted of	25 <b>X</b> 1
	eight hours; the afternoon shift, employing about 800, consisted of seven	
	and one-half hours; and the night shift, employing about 600, consisted of	
	seven and one-half hours, also.	25 <b>X</b> 1

20. There were no strikes. Complaints were made occasionally, both because of the high production norms and the low wages. Employees doing special work or missions received preferential treatment.

# Plant Personnel

21.

a. Kornyenko (fnu), plant's director

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b. Svest	veniko (f	nu). engineer	specializi	ng in crane	<b>9</b> 81	· ·
	veniko (f	nu), engineer	specializi	ng in cran	<b>3</b> 81	
	veniko (f	nu), engineer	specializi	ng in crane	<b>3</b> 8,	
	veniko (f	nu), engineer	specializi	ng in cran	98,	

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