INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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COUNTRY	USSR (Sverdlovsk Oblast)	REPORT		
SUBJECT	The Soviet Bearing Industry and Bearings Plant No. 6 in Sverdlovsk	DATE DISTR.	28 April 1960	
		NO. PAGES	2	
		REFERENCES		25 X 1
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	SOURCE EVALUATIONS ARE DEFINITIVE. APP	RAISAL OF CONTER	NT IS TENTATIVE.	
٠	The bearings industry in the HCCD cone	ideted of olow	en production plents	

- 1. The bearings industry in the USSR consisted of eleven production plants, numbered one through eleven, and of eighteen bearing repair plants. The latter were not numbered, but were designated as Remontno-Podshipnikovyy Zavod plus the name of the city in which the plant was located. Alma-Ata, Kazan, Kiev, Tashkent, Vinnitsa, Sverdlovsk, and Moscow were known to have repair and/or reconditioning plants.
- 2. Throughout the industry, Bearings Plant No. 2 in Moscow was known as an experprise which received the orders for new types of bearings. It was also known to produce "special bearings" (spets-podshipniki), i.e., bearings made to order for new types of machiners. Bearings Plant No. 1 in Moscow supplied bearings to the aircraft/missile plant in Perm, according to a special supply representative of the latter.
- 3. About 85 percent of the ball bearing production of Plant No. 6 in Sverdlovsk was used by the military. Military representation at the plant consisted of four men headed by a lieutenant colonel (pplk) of the armored corps. About 47 or 48 types of bearings were produced at Plant No. 6. Each type had a numerical designation (the meanings of the designations, the exact purpose of each bearing, and where they were all sent were not known All bearings produced by the plant carried the trade mark "6 GPZ".
- 4. In mid-1958, Plant No. 6 was the only plant in the USSR which supplied bearings to tank factories. Plant No. 4 in Kuybyshev at one time produced a type of bearings for tanks, but in 1955 this production was transferred to Plant No. 6.
- 5. Bearing type No. 500, with brass-cages and balls of 3/4-inch diameter, was a support bearing produced for the Army. Average monthly production for this

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

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type was 5,000 to 6,000 unito the aircraft plant in Pe	ts. Among other places, term and to plants producing	his bearing was sent	

- 6. Bearings Plant No. 6 received raw materials from metallurgical plants in Kuznetsk, Chelyabinsk (steel type ShKh 15), Moscow (ELEKTROSTAL, steel type ShKh 15), Zlatoust (special steel type ShKh 15SG), Serov (steel types ShKh 6,9, and 15), Minyar (steel type ShKh 6), Kyshtym, Novosibirsk, and Gorkiy. With the exception of wire, received by air shipments from the Krasnaya Etna Plant in Gorkiy, all Shipments came in by rail. As of mid-1958, the plant did not have a railroad siding.
- 7. The waste of raw materials, particularly of steel, at the plant was "barbaric". Such wastage, caused by the carelessness and indifference of the workers, was greatest in the press and forge department during the processes of race p production and in the roller production and polishing department. According to a survey carried out in the plant in 1957, only 31.3 percent of raw metals was efficiently and practically exploited, while 68.7 percent was either wasted or discarded as substandard. One ton of Sh.Kh. 15 steel of 25 mm. diameter cost the plant 3,200 rubles. Though the plant itself did not suffer from this waste, since it was covered in the calculated production costs, the loss to the State was not insignificant.
- 8. Another weak spot of Bearings Plant No. 6, in fact of the entire bearings industry, was the inability to acheive in the heat processing a uniform hardness of every part of the bearing. Soviet experts, furthermore, were unable to understand how the Western bearings industry, particularly in Sweden, could achieve an accuracy of up to 0.5 microns, while the Soviets could barely reach a tolerance of 1.5 microns. As a result of this inaccuracy and the faulty heat processing, more than 15 percent of the plant's finished products which were destined for the Army were rejected by the military representatives at the plant. The plant was generally criticized for its low standards. It was in need of good polishing equipment, since the locally-made machines did not permit the required degree of accuracy; hence the demand for Western machinery.

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Included	
in the report are data on plant production (in approximate figures), plant	
equipment, organization, work force, and a listing of plant personnel.	
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1 SEGATT

- 1. The bearings industry in the USSR consisted of eleven production plants, numbered from one to eleven, and eighteen bearing repair plants. The plants for the repair and reconditioning of bearings were not numbered in the manner of the production plants but were designated "Bearings Repair Plant" (Remontno-Podshipnikoviy Zavod) plus the name of the city in which the plant was located. Of the eighteen such plants in the USSR, the following plant sites were known: Alma-Ata, Kazan, Kiev, Tashkent, Vinnitsa, Sverdlovsk, and Moscow.
- 2. Until the establishment of the Sovnarkhoz system, the entire industry was under the jurisdiction of the Chief Directorate

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of the Bearings Industry (Glavpodshipnik) of the Ministry of Automobile Production (Ministerstvo Avtomobilnoy Promishlennosti). With the establishment of the Sovnarkhozy, each plant became subordinate to the Sovnarkhoz in its geographical area. Viatliy Devyatov was head of the Glavpodshipnik until the establishment of the Sovnarkhozy. In mid-1958, he was chief expert for bearings affairs at the All-Union Gosplan.

3. Throughout the industry, Bearings Plant No. in Moscow was known as an enterprise which received the orders for new types of bearings. It was also known to produce "special bearings" (spets-podshipniki), i.e. bearings made to order for new types of machinery, etc. Plant No. 1 in Moscow supplied bearings to the aircraft/missile plant in Perm

Bearings Plant No. 6 in Sverdlovsk

Bearings Plant No. 6 in Sverdlovsk was founded in 1941 with the equipment of Plant No. 1, when the latter was transferred from Moscow during the war. The plant was located in the center of twon, on Shartashskaya, in buildings formerly occupied by an alcohol plant and a bearings repair plant. In 1942, the production of bearings was begun at the plant; they were supplied to a plant

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in Nizhniy Tagil $\sqrt{N}57-55$, E59-577 and to the Uralmash plant in Sverdlovsk, which at the time produced T-34 tanks.

- 5. The main department of Plant No. 6, that of polishing and assembly (shlifovalno-sborochniy tsekh) with its 300 foreign-made machines, was completely destroyed by fire in 1946.

 Though it was rehabilitated within four month's time and was equipped with new machinery, the department failed to regain its former productiveness and became one of the weak links of the plant.
- 6. The plant continued to develop after the war, but all growth was confined to the existing buildings, since the plant's location in the heart of town precluded further expansion and addition of new buildings.
- 7. The principle departments of the plant were the following:
 - a. The Press and Forge Department (Kuznechno Presoviy Tsekh), located in a one-story building 250 x 150 meters in size, which included the following equipment:

(1)	One press (9,1/2
	Duymovaya Shtampovochnaya Mashina)
	for producing races of up to 21 cm
	internal diameter. This machine was

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used for the production of races for bearings of types 226, 228, 230, etc. used for tanks. The machine was installed at the plant in 1955. The only other machine of this type was found at Plant No. 1 in Moscow.

- presses (7,1/2

 Duymovie Shtamp. Mash.) for races of

 up to 18 cm internal diameter, in

 bearing types 218 and 313 (for tractors),

 500, 3614, 3616, 3618, etc.
- (3) One press (5 Duymvaya

 Shtamp. Mash.) for races of up to 10 cm

 internal diameter, for bearings of types

 3608, 3610, etc. for the army.
- (4) Three locally-made pneumatic presses

 (presa svobodny kovki), of which two
 exerted a pressure of 8 tons each and
 the third of 2 tons. These presses were
 used for the hand forging of the races

 (koltsa) and the balls (shariki) for
 bearing type 244, which was used for

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	heavy tanks. The diameter of the	
	ball in this bearing was 1.75 inches.	
b.	The Lathe Department (Tokarniy Tsekh) and the	
	Polishing and Assembly Department, which were	
	located together in a 9,000 square meter, one-	
	story building. The former contained about 120	
	lathes	:
c.	The Thermal Department (Termicheskiy Tsekh), which	
	was equipped with the following:	
	(1) Rotary oil furnace (karuzelnaya	
	maslennaya pech)	
	and used in the heat proces-	
	sing of large races.	
	(2) Two horizontal air furnaces (gorizon-	
	talnovo zdushnie pechi)	
	was used for the hardening	
	of medium-sized races and large balls	
	and rollers (roliki).	
	(3) Two furnaces for the heat processing	
	of small balls and rollers.	
	C.pr.	

The department for the production and polishing of balls contained two cold presses (kholodnaya shtampovka) for making balls two hot presses (goryachaya shtampovka) for making balls, but which were also used as cold presses for certain types of balls, one Lekra press for burring the balls (Dla Snyatiya Saturnovo Koltsa). The department also contained 32 machines called Opilovochnie Stanki, which were capable of removing layers of up to 0.4-mm in thickness from balls. These were locally-produced copies

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of the IS machines. There were also	
12 machines for rough polishing (stanki pred-	
varitelnoy shlipovki), which were vertical	
nachines with German Chasewrede tables; 32	
abrasion vats (abrazivnie barabani) contain-	
ing water and gravel, each with a capacity	
of 250 kilograms of balls; 16 polishing	
nachines (here the	
palls passed from the thermal processes	
to the mechanical processes); 25 or 26	
oolishing machines (shlifovalnodovodochnie	
stanki) of the locally-made M.Ts.Z, the	
types; 18 vats containing a special lime	
barabani dla polirovki), where the balls	
underwent their final polishing.	
The department for the production and polish-	
ing of rollers, both conical and cylindrical,	
was equipped with the following: one machine	
for straightening steel rods; 36 automatic	
Note: The state of	

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	lathes,	2
	about 20 vats (barabani) for abrasing the	
	rollers (abrazivnaya obr abotka poverkhnostey);	
	8 machines for the basic polishing of the	
	rollers (stanki dla tortsevoy shlifovki); 60	
	machines for rough polishing (gru-	25 X
	baya shlifovka) and smooth polishing (chisto-	
	vaya shlifovka); one or two machines for the	
	final polishing (polirovka) of large rollers	
	(large rollers were polished only by machine);	
	and an undetermined number of vats for the	
	final polishing of other than large rollers.	
е.	The Cages Department (Separatorniy Tsekh), which	
	was housed in a one-story building 200 meters	
	long and 70-80 meters wide. The cages were of	
	two main types: of iron for Less dependable	
	types, as for tractor bearings types 218, 313;	
	and of brass, for more dependable bearings, as	
	for tank bearings types 230, 244. The iron	25 X
	cages were produced by six vertical	25/
	Lekra presses. The brass was brought to the	
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plant in billets from Zavod No. 1 in Kyshtym. Plant No. 6 contained a special casting department where the brass billets were cast into pipes and then worked into cages by the machines, which carried out the various processes (lathes, drills, polishers, etc.).

- 8. In addition to the above principal departments, the plant contained the following smaller shops, also directly connected with production:
 - a. The Ball Chromium-Plating Department, within the framework of the polishing and assembly department.
 - b. The Steam Department (Kotelnaya), which provided the steam required mainly for the chemical processing of the parts.
 - c. The Compressor Department, which had two
 compressors each capable of
 delivering 5,000 cubic meters of air per
 hour. This compressed air was used mainly
 by the presses.

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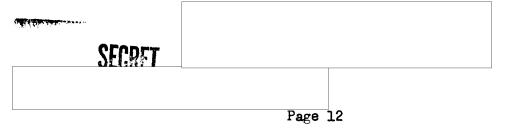
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- d. A chemical laboratory and a metallurgical laboratory, which were connected to the department of the head metallurgist.
- e. A special bearing testing station which worked around the clock.
- 9. The plant employed a total of 3,400 workers, divided as follows:
 - a. Approximately 2,000 directly connected with the production of bearings.
 - b. 220 engineers and technicians.
 - c. 400 in the technical inspection department (OTK).
 - d. 200 administrative personnel.
 - e. The remainder in auxiliary department, such as electrical, instruments, repairs (rem. mekh. tsekh), transportation (equipped with about 50 trucks), carpentry shops, etc.

About 60 percent of the employees at the plant were women, most of whom were employed in the thermal processing and the polishing departments. Two hundred sixteen of the employees were members of the Communist Party.

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- 10. About 85 percent of the plant's production was used by the military. The military representation at the plant (voen. predstvo) consisted of four men headed by a lieutenant colonel (Pplk) (not by a colonel (plk) as previously reported) from the armored corps.
- 11. The plant produced about 47 or 48 types of bearings, each with a numerical designation (the meanings of the designations, the exact purpose of each bearing, and where they were all sent were not known
- 12. The plant produced the following main types of ball bearings:
 - a. No. 218 brass cages, ball diameter of 7/8 inches. The average monthly production of this type was between 20,000 and 30,000 units, of which 15,000 went to the army to be used in armored vehicles. The same bearings with cages of iron were used for tractors.
 - b. No. 518 a support bearing (uporniy podshipnik) with brass cages and with balls of 19/33 inches' diameter. The average monthly production of this type was 1,500 units, all for the army.



- c. No. 317 brass cages and balls of 1-3/16 inches' diameter. The average monthly output of this type was 6,000-8,000 units, all for the army.
- d. No. 226 brass cages and ball-diameter of 1-1/8 inches. The average monthly output of this type was 12,000 units, all for the army.
- e. No. 228 brass cages with balls of 1-1/8 inch diameter. The average monthly output of this type was 2,000-2,500 units, all for the army.
- f. No. 230 brass cages and balls of 1-5/16 inches' diameter. The average monthly output of this type was 10,000 units, all for the production of tanks. These bearings were sent to the giant Nizhniy-Tagilskiy Vagonno Stroitelniy Zavod in Nizhniy Tagil, which produced railroad rolling stock. In 1958, this plant transferred to tank production.



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- g. No. 244 brass cages with balls of 1-3/4 (?) inch diameter. The average monthly production of this type was 2,000 units, all for the production of heavy tanks.
- h. No. 500 with brass cages and balls of 3/4 inch diameter. The average monthly production of this type was 5,000-6,000 units, all for the army. No. 500 was a support bearing and, among other places, was sent to the aircraft plant in Perm and to plants producing tanks, for use in tank guns (?).
- i. No. 8120 [sic] a support bearing with brass cases and balls of 0.5 inch diameter.

 The average monthly output of this was 4.000-5.000 units, all for the army.
- j. No. 313 brass cages and balls of 15/16 inch diameter. This was used for military purposes and also in tractors.

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- 13. The following cylindrical bearings were produced at the plant:
 - a. No. 3634 with brass cages and a cylindrical roller of approximately 40 mm. diameter. The average monthly production of this type was 7,000-8,000 units, all of which were used for oil drills. Most of them were sent to the Uralmash plant in Sverdlovsk.
 - b. No. 3618 with brass cages and rollers of approximately 22 mm. diameter. The average monthly output of this type was 7,000-8,000 units, all for the army.
 - c. No. 3616 with brass cages and rollers of approximately 20 mm diameter. The average monthly output of this type was 10,000 units, all for the army.
 - d. No. 3614 with brass cages and rollers of about 16 mm. diameter. The average monthly output of this type was 7,000 units, all for the army.
 - e. No. 3612 with brass cages and rollers of about 14 mm. diameter. The average monthly output of this type was 7,000-8,000 units, all for the army.

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14.	Of the conical bearings, the plant produced types No. 3608	
	and No. 3610, both of which were with brass cages. The monthly	
	output of the No. 3608 type was about 3,000 units and that for	
	the No. 3610 type 7,000-8,000 units. All of the output was	
	for the army.	
15.	In mid-1958, Plant No. 6 was the only plant in the USSR which	
	supplied bearings to the tank factories. Plant No. 4 in Kuybyshev	
	at one time produced No. 244 bearings for tanks but, in 1955,	
	this production was transferred to Plant No. 6.	
16.	A small part of the output of the plant was exported.	
	exact and full details were not known	
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17.	All bearings produced by the plant carried the trademark "6 GPZ"	
	plus the numerical designation of the bearing.	
18.	Plant No. 6 received raw materials from the following sources:	
	a. From the metallurgical plant in Kuznetsk	
	(Kuznetskiy Metalurgicheskiy Zavod). This	

plant received steel of the type Sh.Kh. in

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the form of rods of the standard length of 3 meters and with diameters of 100, 110, and 130 mm. This type of steel was used for the production of races for over medium-sized bearings, such as types Nos. 8120, 226, 228, 230, 244, 317, 3634, and 3616. (Bearing No. 244 was produced at the order of and from steel provided by the Uralmash plant). The Kuznetsk plant was Plant No. 6's main supplier of steel for the bearings named above.

- b. The metallurgical plant in Chelyabinsk

 [N55-10, E61-247 (Chelyabinskiy Metalurgicheskiy Zavod), which provided steel
 of the Sh.Kh. 15 type in 80 and 90 mm.
 diameters for the production of races
 for bearings types 218, 500, 3608,
 3612, etc.
- c. A plant called Elektro-Stal, in Moscow, which provided the same steel as the plant in Chelyabinsk.



For the production of the various types of races alone, Plant No. 6 required almost 3,200 tons of steel per month. From 70 to 75 tons of various types of steel were used in the production of balls per month. In 1958, the monthly output of balls was about 50 tons, in contrast to 20 tons per month in 1947.

e. Most of the steel for the production of balls was received from the Serov Metallurgical Plant (Serovskiy Metalurgicheskiy Zavod Im. Lenina). It provided Sh.Kh. 6 steel with a diameter of 13.5 mm. for bearing No. 500, Sh.Kh. 9 steel with a diameter of 17 mm. for No. 218 bearings, and Sh.Kh. 15 steel with diameters of 20.5, 21, 23, 24, and 26 mm.

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- f. The special steel plant in Zlatoust also supplied Plant No. 6 with steel for balls. It provided Sh.Kh. 15 SG steel with a 25 mm. diameter for the No. 230 bearings, and with diameters of 26, 28, and 32 mm. for the No. 244 bearings.
- g. A plant in Minyar /N55-04, E57-327, which supplied steel for balls for bearings No. 8120. This steel was of the type Sh.Kh. 6 and had a diameter of 9.2 mm.
- h. The Serov Metallurgical Plant supplied Plant
 No. 6 with 70 percent of the latter's steel
 requirements for balls and rollers. Plant
 No. 6 required from 160 to 170 tons of steel
 per month for the production of rollers.
- i. The Kyshtym plant supplied all of the 60-70 tons of brass required monthly for cages.
- j. The Novosibirskiy Listo-Prokantniy Zavod in Novosibirsk, which supplied 6-8 tons of iron strips for cages (separatornaya zhel. lenta) in thicknesses of 1.0, 1.5, and 2.5 mm.



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k. The Krasnaya Etna Plant in Gorkiy, which supplied (iron) wire to Plant No. 6 and apparently to the entire industry. The wire, in diameters of 2.4, 2.9, and 4.0 mm., was used in the production of rivets for the cages. Plant No. 6 used 300-350 kilograms of wire per month.

With the exception of the wire, which was delivered by air, all raw materials for Plant No. 6 arrived by rail.

19. The waste of raw materials, particularly of steel, at the plant was "barbaric". Such wastage, due to the carelessness and indifference of the workers, was greatest in the press and forge department during the processes of race production and in the roller production and polishing department. According to a survey carried out in the plant in 1957, only 31.3 percent of the raw metals were efficiently and practically exploited, while 68.7 percent was either wasted or discarded as substandard. One ton of Sh.Kh. 15 steel of 25 mm. diameter cost the plant 3,200 rubles. Though the plant itself did not suffer from this waste, since it was covered in the calculated production costs, the loss to the State was not insignificant.

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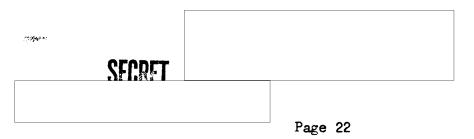
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standard. It was in need of good polishing equipment, since the locall-made machines did not permit the required degree of accuracy, hence the demand for Western machinery.

- 22. The principal production departments of the plant, such as the press and forge, assembly, fine polishing, and thermal departments, operated in three shifts. The auxiliary departments worked in one shift and all other departments in two shifts. During the winter months (1 October to 1 May), work began at 0800 hours, with shift changes at 0800, 1600, and 2400 hours. During the summer, work began at 0700 hours.
- 23. Though not particularly large in area about 500 x 400 meters surrounded by a board fence two meters high topped with barbed-wire
 Plant No. 6 was considered one of the top enterprises in the city from the point of view of mechanization and automation.
- 24. In the winter of 1957/1958, the plant was allotted 2,000 cubic meters of wood from the forest in the vicinity of Rezhik

 [N56-51, E61-21]. The forest had reportedly been uprooted in connection with a plan to flood large areas in the formation of an artificial lake for an atomic power station under construction in the vicinity of Beloyarskoye [N56-45, E61-21]. By 1958, it

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was widely known in Sverdlovsk that an atomic power station was being erected in the Beloyarskoye area and that work at the site was progressing according to schedule.

- 25. Plant No. 6 did not have a railroad siding, and of its 50 trucks only about 30 were operational.
- 26. Electricity was provided by the central grid and carried into the plant by underground cable. The plant operated a transformer station on the site.

Vitaliy Devyatov, chief expert for bearings at

27. The following persons were reported:

industry.

the All-Un	ion Gosplar
	Prior to the establishment of the
Sovnarkhoz	system, he had headed the Chief
Directorate	e for the Bearings Industry. Prior
to that he	had worked for many years in what
later becar	me Plant No. 1 in Moscow. A mechani-
cal engine	er by profession, he was considered

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one of the leading experts in the Soviet bearings

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b. Grigoriy Sergeyevich Kosobokov, chief expert

for bearings for the RSFSR Gosplan since

1958

A mechanical engineer by profession, he had worked,

before World War II, in what later became

Plant No. 1 in Moscow. During the war, he

was director of the technical department

of Plant No. 6 in Sverdlovsk. From 1952

to 1958 he was assistant head of the All
Union Chief Directorate for the Bearings

Industry.

c.	Piotr Ivenowich Yashcheristin, director of	ĭ
	Bearings Plant No. 11 in Minsk	
	Until about 1953, he was	
	chief engineer at Plant No. 6 in Sverdlov	rsk.
	He was a mechanical engineer by profession	n
	and held the degree of Candidate of Techn	nical
	Sciences.	

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d.	Ivan Fyodorovich Gavriyelov, chief engineer	
	at Plant No. 11 and a mechanical engineer	
	by profession Until	25 X
	about 1953, he held various positions of	
	responsibility at Plant No. 6.	25 X 1
		25X
e.	Sergey Vasilyevich Komarov, director of the	
	bearings repair plant in Sverdlovsk since	
	1954/1955 and formerly director of the lathe	
	department of Plant No. 6	
		25 X
f.	Sergey Vasilyevich Khudeyev, director of Plant	
	No. 6 since 1951 and former (since 1941) director	
	of the production department of the same plant,	
	An engineer-economist by	25 X
	profession, he worked before the war as	
	assistant director of the instruments depart-	25X1
	ment of Plant No. 1 in Moscow.	25 X I
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g.	Valeriy Ivanovich Kitayev, chief engineer of Plant No. 6 since 1955 and former head designer	
	in the same plant	2
	A mechanical engineer by profession, he	25
	completed his studies in Nizhniy Tagil during	
	the war.	2
h.	Mikhail Fyodorovich Pomukhin, head metallurgist	
	at Plant No. 6 since 1949	2

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Vladimir I	lyich Klimov, director	of the	
technical	department of Plant No.	6 since	
ab o ut 1957	and formerly a senior	engineer	
in the sam	ne department		
Piotr Klin	nov, production director	at the	
Lenin plar	nt for special steel in	Zlatoust,	
Vladimir F	Pivnev, director of the	press and	
forge depa	ertment of Plant No. 6 s	ince 1952/	1953,
		Until	
1 952/195 3 ,	, he was a senior techno	ologist in	
the same d	department. A metallurg	ical engin	eer
by profess	3ion		
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1.	Dmitr Andreyev	ich Gulayev, dire	ector of the			
		nt of Plant No. (у,		
	for many years	, director of the	e assembly			
	department of	the plant				
		During the war,	he worked in	L		
	Plant No. 1.					
m.	Sim Osipovich	Sim Osipovich Yagnyatinskiy, director of the				
	polishing and	assembly departme	ent of Plant			
	No. 6 since ab	out 1953				
	He formerly wa	s assistant chie	f engineer at	5		
	Plant No. 50 i	n Sverdlovsk, a	military plan	nt		
	possibly conne Shortl	cted with the pr	oduction of			
		the war he work	ed in the So	viet		
	Embassy in the	United States.				
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n.	Lt. Colonel (Ppik) valentin lakolevich bakharov,
	head of the military representation (voen pred-
	stvo) at Plant No. 6 for many years

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CEUDEL		
<i>7</i> ,	Attachment 1	

Legend to Sketch Showing Location of Plant No. 6

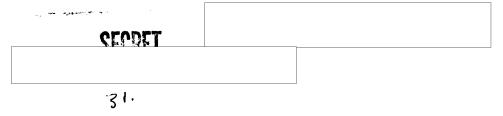
- 1. Lenina.
- 2. Lunacharkovo.
- 3. Pervomayskaya.
- 4. Shartashskaya.
- 5. Bazhova.
- 6. Shevchenko.
- 7. Urals Military District Headquarters (Uralskiy Voyenniy Okrug).
- 8. Residential area of 6-8 story buildings, called Gorodok Chekistov.
- 9. Highschool.
- 10. Residential building.
- 11. Residential buildings.
- 12. Kindergarten.
- 13. Plant No. 6.



Legend to Sketch of the Layout of Plant No. 6

- 1. Main gate for vehicles.
- 2. Gatekeeper's hut and pedestrians entrance.
- 3. Asphalt road.
- 4. Administrative offices and plant directorate, the only two-story building on the site.
- 5. Plant club.
- 6. Roller department.
- 7. Ball department.
- 8. Race polishing department.
- 9. Assembly department.
- 10. Thermal department.
- 11. Lathe department.
- 12. Narrow gauge railroad track.
- 13. Press and forge department.
- 14. Electrical department.
- 15. Repairs department (Rem. Mekh. Tsekh).
- 16. Bearing testing department.
- 17. Garage.
- 18. Fuel stores.

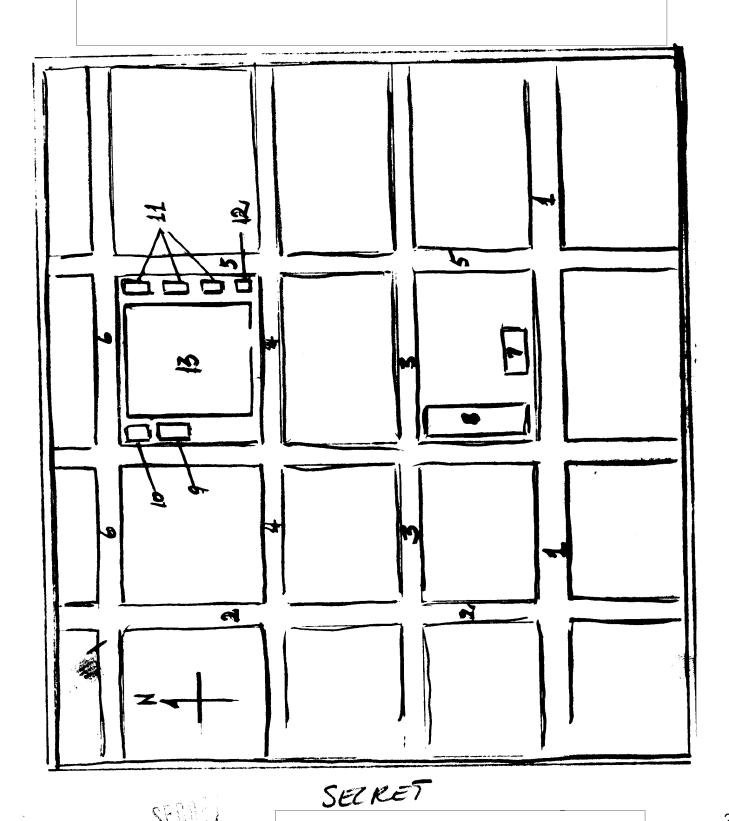




- Page 2 of Attachment 2
- 19. Maintenance and construction department (rem. stroit. tsekh).
- 20. Metals stores.
- 21. Laboratory.
- 22. Cages department.
- 23. Werehouse for finished products.
- 24. General warehouse.
- 25. Compressors department.
- 26. Boiler department.
- 27. Transformer station.
- 28. Entrance for vehicles.
- 29. Wooden fence of the plant.

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