Approved For Release 2002/01/17: CIA-RDP83-00415R010900080009-3 Wies union - REPORT NO. izmai-Segil Latalluzgiani Combine 25K1AALBATICH. DATE OF COS DATE OBTAIN 25X1A REFERENCES_ PAGES ___ ENCLOSURES (NO. & TYPE) _ & F 25X1X SOUF-OF Location: The patallurgical combine and the coking plant are located east of Mizhni Togil (59°58'E/57°56'E), Sverdlovsk Oblast wee location sketch with legend, annex 1. 2. Location: fae sucel plant area extends from the Mizhni Tasil railroad station to the southeast and covers an area of about 5x2 km. Plant layout: wilti-track shunting station borders the western edge of the factory. .. railroad line leads from the shunting strien in the direction of the car factory Lourse learned from conversations that the construction of the manhtha plant was started in 1945 and the construction

d. .ork force:

- aiso a construction.

ose layout sketch, Annex 2.

about 20,000 workers, who worked on three shifts (estimate).

of the not yet completed blast furnace installation started in 1946. The factory for fireproof stones was

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5. Production:

Unknown

25X1A

Corrent:

- a. Until/little information was available on the location and layout of the mixhmi Taril metallurgical combine. Annex I gives the first survey of this industrial area on the castern outskirts of the town. The sketch is not to scale and not of equal angle. The outlines of the installations are too diagrammatic. The railroad line and railroad car factory, should form an angle of about 80°. The tlast furnace installation, a conspicuous landmark, is missing. I commarison with annex 2 shows that both sources agree on the direction of the different installations as seen from Fd Camp 7153/2.

 The relative locations of the plants are therefore considered gorrect.
- b. The mistakes on the sketch are understandable in view of the multitude of installations in this radified industrial area. A true picture may only be obtained from the evaluation of several more reports and sketches by different sources.
- 2 Annexes, Lluerrints: Mixhai Magil Metallummical Combine.

COMMIDIZATION/COMMON/US TRICI

- 1 -

Legend to annex 1:

- L 1. Carro 7153/2
- E Shunting station, constructed from 1947 to 1949, 1 km long, 32 parallel tracks
 - a New workshopp 200x80x18 meters. Then harrow sides, long sides covered with black from plates, utoal frame structure. Intrely empty as late as May 1949. Furnose unknown. Presumably part of the shunting station
 - b law water tower
- Two rem workshops, ECXECALO moters, brick stageture, purpose unknown. Fractmably, part of the volling will
- 4 Now workshor (resumbly belowing to the rolling mill, organic building, 50x 3 and 50x 30 meters, 3 motor bight achines are being installed
- 5 per from-hearth plant, 180x60x8 meters, red trick structure, completed in 1947. Lix smokestacks, each 75 meters high on the longitudinal side. Not in operation in lay 1949
- 60x8 neters
- 7 Open-hearth plant with six costing furnaces and numerous crane installations, 150x60x8 meters, six suckestacks, constructed in 1977. Three tappings within 24 hours
- 8 Coking rlant, brick structure, £00xf0rl5 meters, with a smokestack, 50 meters high, furnished with obstacle lights. Large coul and coke dumps on both sides of this building
- described space parts plant, two red buildings, brick structures each EOx25xC meters
- 10 hold castin describent, fenced-off, several railroad sour tracks, reconstructed since 1944, with
 - a flourdry, 80x25x6 maters
 - b Lethe show, 80m25m6 meters
 - c ...sserkly show like b
 - d lorge, 40x40x8 meters

46

- 2 -

11 Good pattern shop, SCR30x6 meters, telongs to the mold each and department

12/3

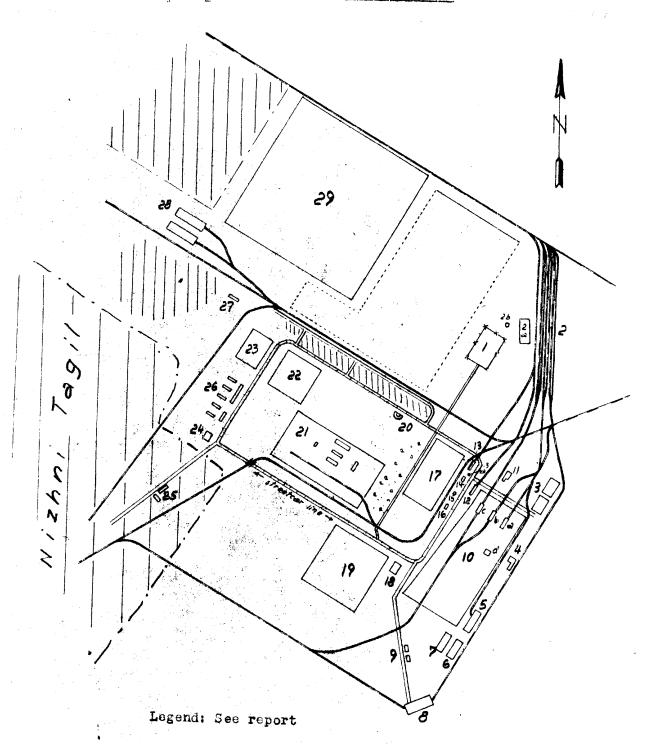
- ### Memzavod'workshop, red brick structure, 80x25x6 meters, for the processing of rails and production of railroad switches, equipped with railroad spurtrack
- 13 Cement plant, red brick building, 80x25x6 meters with administration building (a)
- 14 Old cement plant
- 15 Asphalt-boiling plant
- 16 Concrete plant
- 17 Iron yard, fenced-off open terrain, 500x250 meters, with several sheds and large stocks of tubing and rolled sections
- 18 Aumonia plant, brick building, 80x40x7 meters, no smokestacks
- 19 Spring well fountain, concrete water basin with numerous small fountains, two meters apart, which produce a twirling foam. This installation is connected with the a monia plant
- 20 Jeri-circular three-story clubhouse, not completed, located in a park
- 21 Sawmill with numerous workshops, warehouses and drying sheds
- 22 Street car denot
- 23 Do-called black market
- 24 Lread factory
- 25 Larracks
- 26 Civilian cantonment buildings
- 27 Clothing factory
- 28 hailroad car remain shop
- 29 Fireclay factory

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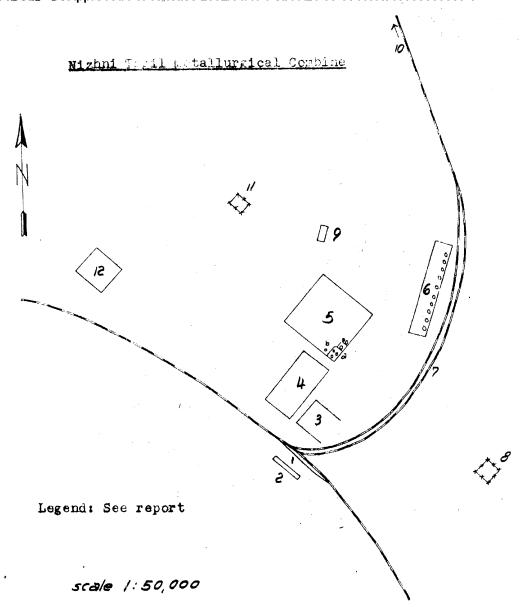
Lerend to Annex 2:

- 1 Lizhni-Tacil railroad station
- 2 High buildings
- 3 Laphtha plant; trains of tank cars were frequently seen there
- 4 Coking plant with about 200 furnaces
- 5 Llast furnace plant with
 - a Two blast furnaces, each of about 1,300 ton capacity, completed in mid-1947; two more blast furnaces were under construction in the Spring of 1948
 - b Lew concrete snokestack, 80 meters high
- 6 Open-hearth plant, numerous snokestacks, each about 40 meters high
- 7 hailroad tracks at the smelting plant
- 8 P. Camp 7153/3
- a memontezavod, about 250 meters long, with workshops
- 10 Track to the railroad car factory
- 11 F. Camp 7153/2
- 12 Fireclay factory

Nizhni Tagil Netallurgical Combine



Scale 1: 25,000 ·

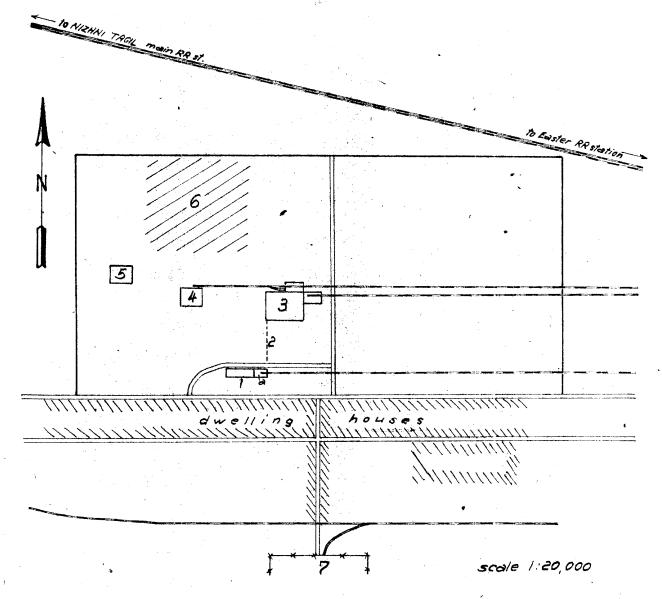


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TOPIC	Railroad Car Factory No. 183 in NIZHNI-TAGIL-VAGONWA	CONTACT
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	ES ENCLOSURES (No. & TYPE) 2 Blueprints	
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A COMMISSION OF THE PROPERTY OF THE WORLD		45Fer il illinomeccio <u>spillinimi e in esperio per el informaccio e</u> primipipa
1.	Source submitted the two attached sketches on the railroad car factory in NIZHNI-TAGIL-VAGOUKA (59°58'E/57°56'N), Sverdlovsk Oblast.	5
2.	The following plant departments were remembered:	
	No. 84: Production of plexiglass and optical equipment No. 110: Machining of armor plates No. 119: Assembly of engines No. 125: Automatic lathe department No. 130: Assembly of tanks (assembly line system) No. 630; Production of springs	•
25X1A	Comment:	
	a. This report in connection with previous information yia clearer picture of this extensive plant.	.elds
25X1X	b. The sketch of Annex 1 might lead to the mistaken assume that the building described in detail in Annex 2 is the modern that workshop of the plant. According to all previous reports, the most important plant department is the final assembly hall entered as item 1 on the sketch of Annex 1. However, stated that it is larger and moderately located. From the often reported tunnel (item 2 of Annex 1) it is clear that the building described in Annis the chassis workshop, north of the main workshop. The entirely inadequate sketch of Annex 1 is forwarded only for purpose of proving this fact.	ore nex 2
	2 Annexes: 1. Railroad car factory in MIZHNI-TAGIL-VAGON 2. Details on the chassis assembly hall of th NIZHNI-TAGIL-VAGONKA Railroad Car Factory	KA 19

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Annex 1

Railroad Car Factory in NIZHNI-TAGI



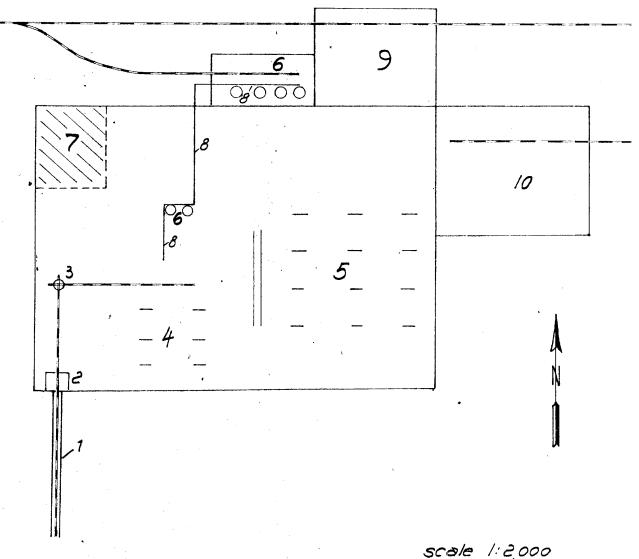
Legend:

- Administration building, 750x150x45 feet with an assembly hall for freight car superstructures (a)
 Tunnel, 900 feet long and 12 feet below the surface
 Assembly hall for chassis, 750x540x36 feet with skylights and several annexes (see Annex 2)

- Foundry
- Welding shop Materials dump
- PW Camp No. 153/1

Details on the Chassis Assembly Hall of the NIZHNI-TAGIL-VAGONKA

Railroad Car Plant



Legend:

- Tunnel
- Lift
- Turntable
- Boring machines
- Lathes
- Vertical turning and boring machines Spare parts dump
- Assembly line
- 9 Coarse turning of wheels 10 Hardening shop and rolling mill

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SOURCE	
ا ۳	Togetten
1.	Location: Horthwestern edge of the suburb of Vagonka, 3.8 km ENE of Nizhni-
	Northwestern edge of the suburb of Vagonka, 3.8 km ENE of Nizhni- Tagil (59058'E/57056'N), Sverdlovsk Oblast.
2.	Plant installations:
	The plant covers an area of about 1800 x 675 meters. The newly-con- structed assembly show for tank-cars was the only new building. The
	exterior walls of this new building (still under construction) were
	was completed by July 1949. A short time later, the tank car assembly show was completely installed and ready for operation. A tunnel, 13
	meters wide, electrically lighted, passes under the large workshop; it is used by motor vehicles. The power and heating installation is
	plant-owned. For plant layout, see Annex.
3.	Work force:
	Three shifts, each with 5,000 to 6,000 laborers, 60 percent women; also 700 PWs, most of them doing outdoor work. It was known that the PW camp was to be closed in December 1949.
A.	Production:
8	.Open loxcars, flatcars, tank cars; 4-axle cars with a capacity of 60 tors, 12.6 meters long, all with the same chassis and type of springs.

b. The tank pilot section was operating. Source observed test tuns. He further details available.

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COMPTDENTIAL/CONTROL/US OFFICIALS 2

C.

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Comment:

- a. The plant location determined from previous information was confirmed by source.
- b. Source worked in various places in the plant area, and furnished a good survey of the important plant departments. His statements agree in general with previous reports. The tunnel, passing under the main workshop was also mentioned in earlier reports.
- c. Information on the construction of an assembly shop for tank cars is new.
- d. The tank pilot section reported is confirmed by other records. It seems that this section, previously the most productive branch of the plant, was limited to developmental work.
- 1 Annax: Wa ggon Repair Plant No. 183 in Nizhni-Tagil.

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Annex

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Legend to Annex

Ã

- 1 Garage, 90 x 27 meters
- 2 Mechanical department, 90 x 36 x 13.5 meters, manufacture and processing of small/parts; most of the machinery imprican
- 3 Forge, 45 x 27 x 13.5 meters, cutting of section steel for chassis and springs for railroad cars
- 4 Large assembly shop, 360 x 90 x 13.5 meters
- 5 a Test plant for tanks
 - b Tunnel
- 5 Paint shop, 135 x 72 x 13,5 meters; painting of railroad cars
- 6 Foundry and polishing shop, 135 x 73 x 13.5 netrs, with three gas-fueled furnaces. Manufacture of railroad car wheels and connecting parts
- 7 Forge for anles, 135 x 72 x 13.5 meters, with 6 to 8 annealing furnaces and 10 to 15 steam hammers
- 8 Drying chamber, 135 x 72 x 13.5 meters
- 7 Fitting shop, 90 x 22.5 x 13.5 meters, with all workshops necessary for the plant's requirements, including carpenter shop and glass shop, with two annealing furnaces for oil fueling
- 10 Small foundry, 90 x 45 x 13.5 meters, with molding shop; further details not available
- 11 New assembly shop for tank cars, concrete structure, 135 x 90 x 10.8 meters, for assembly of chassis and tanks, with 3 railroad tracks and 12 trolleys with a capacity of 12 tons each
- 12 Wheel shop, 90 x 72 x 13.5 meters, milling of wheels, installing of bearings and fitting to the axles
- Power plant and heating installation, brick building, 90 x 22.5 x 16.5 meters, with 3 or 4 smokestacks. Uses coal and peat fuel; connected with the coal and peat dumps by special gipes.
- 14 Peat dump
- 15 Coal dump
- 16 Lumber dump, with about 1,000 pieces of lumber
- 17 Saumill, 72 x 45 meters
- 18 Plant railroad station
- 19 Iron dump, with section iron, bank secens, casting weste, gun barrels and armor plates
- 20 Warehouse, 13 x 6.9 x 5.4 neters, with screws, bolts, nuts, springs, and other small parts.

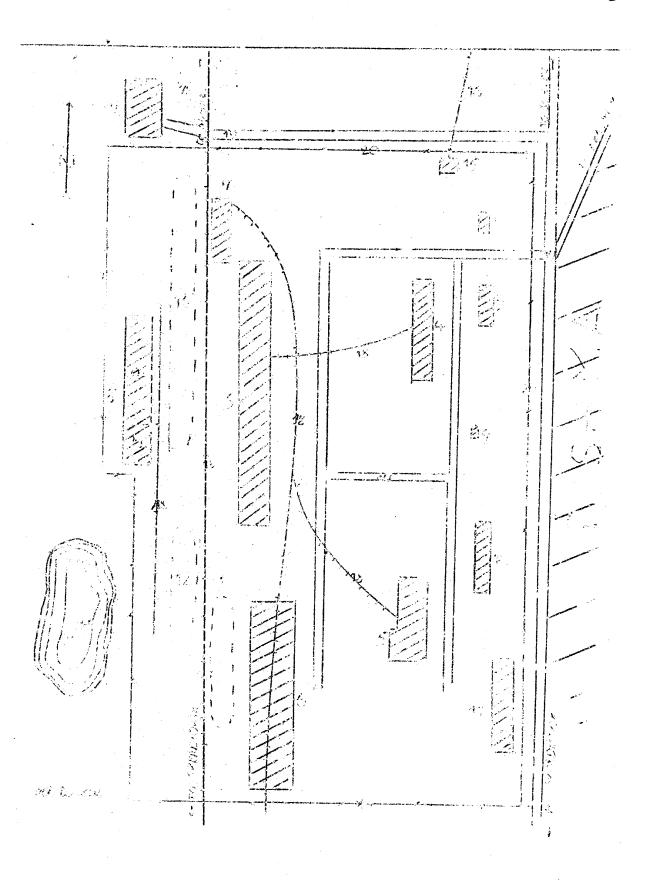
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25X1ATO	PiC	Pyshna Copper Plant	
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	ajdy keen agas, managas, d	P HISTORIAN TO THE PART OF THE	Nation Strategic Streets
so	URCE		25X1)
	1.	The Pyshma (56056: N/60035: E) Copper Plant is in the northwestern outskirts Pyshma, north of Sverdlovsk (56046: N/60044: E). The railroad line to Sverdlopassed through the plant. The plant comprised a refinery department, an elected department, another small electrolytic department with a vitriol-producing installation, a boilerhouse, a repair shop, a sawmill and a transformer state	ovsk strolyt
	2.,	Coppor plates, I meter square and 20-mm to 30-mm thick, as well as copper by about I meter long, 300-mm to 400-mm wide, 100-mm thick and weighing 3-cwt to 6-cwt, were produced. About ten 20-ton carloads of copper plates and copper were shipped to Sverdlovsk daily. "Pure copper" was also produced. (2) The assimes produced during the electrolytic process were put into wooden barrels shipped by rail. One 40-ton railroad car loaded with the slimes left the plategilly. Source was occasionally assigned to the loading of slimes. (3).	bars node and
	3.	Power was supplied from the SUGRES.(4)	
	4.	The total number of employees was about 700. Forty-five workers were employed in the refinery department and 30 PWs in the second electrolytic department. Work was done in three shifts (5).	:đ
25X1A	(1)	Comments. For further information on the organization and layout of the copper plant so Armex. According to the reference report, the second electrolytic workshop we still under construction in the fall of 1948 while this report states that the department was already in operation in June 1948. The reference report also stated that there were five furnaces in the refinery department. One furnace apparently being reconstructed at the time of observation. The number of the	as bhis was
	(2)	electrolytic vats appears to be considerably underestimated. The daily sutput of about 200 tens agrees with information given in reference report. The plant had an annual capacity of 100,000 tens of electrolytic copper and not of copper alloys or black copper as apparently assumed by source. The existence of ore dumps indicates that copper alloys were also produced as sideline production. However, source did not mention a reasting installation the copper works which is required for ore smelting.	ce oper. ne

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- (3) This is anode slime containing gold and platinum which is sent from Pyshma to a refining installation.
 (4) SUGRES means Sredne Uralskiy Gres (Central Ural Gres).
 (5) Source presumably refers to the work force of one shift. The total number of workmen may exceed 2,000.

1 Annex: 1 sketch on ditto

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Annex

· 2 ·

Legond:

- 1. Hair entrance.
- 2. Administration building, about 30x10x8 meters.
- 3. Refinery department, about 200x100x18 meters, equipped with four furnaces and four cranes. Black copper shipments arrived via the plant railroad. The railroad line passed from the refinery department to the electrolytic cepartment. Plates were cast in two of the furnaces and bars were cast in the other two furnaces. A molding shop was also housed in this building.
- 4. Electrolytic department, 100x80x10 meters, equipped with about 45 vats each 10 meters long, 5 meters wide, and 1.5 meters high. There are used for the further processing of refined copper. The plates, about 30-mm thick, were suspended into the bath by two traveling cranes. Source was employed as leading workman in this department on several occasions.
- 5. A second electrolytic department. This was smaller than the other electrolytic department; item No. 4. This building also housed an installation for the production of blue vitriol, The material for this production arrived by plant railroad from the other electrolytic department.
- 6. Tarehouse with loading ramp. 160x40x6 meters. Copper plates and copper bars were stored in this warehouse.
- 7. Shipping department, 50x20x10 meters, with loading ramp for the main spur track.
- 8. Workshop, 50x20x10 meters. At its northwestern side was a brick smokestack which was about 25 meters high.
 - a, Boiler house, equipped with three vertical, coal-fired, flue boilers which generated the steam supply for the plant.
 - b. Repair shop, force, fitting shop, and electrical workshop for the plant.
- 9. Warehouse for packing material, 20x8x4.5 meters.
- 10. Tarehouse for logs, about 200x100 meters.
- ll. Sammill.
- 12. Coal dump, 150x30 meters.
- 13. Ore dumps within the plant.
- 14. Ore dumps outside the plant. There was an estimated one-year stockpile of crude ores.
- 15. Transformer station for the plant and Pyshma. Fower was supplied through a high-tension line from the SUGRES.
- 16. High-bension line to the SUCRES.
- 17. PW Camp.
- 18. Railroad tracks.
- 19. Roads.
- 20. Fence.

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1. gocation

On the southeastern outskirts of Pervouralsk (59°57*E/56°54* N), Jverdlovsk Oblast, north of the road to Sverdlovsk.**

2. plant unstallations

The Novo Trubni Lavod covers about 1,000x800 meters. Intergements were observed in the southeastern plant section. Power was supplied from the outside. The plant was fueled with peat. The mechinery was of coviet and German origin. A railroad connection was available. For plant layout see annex 1.***

3. Tork Force

An undetermined number of Soviets and 600 PVs on construction, working in three shifts.

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4 Production

Beamless pipes, component parts for locomotives and railroad cars. Output unknown.

5. Plant Installations

The largest tube rolling mill in the Soviet Union according to Soviets, dated back to before the war. Three new buildings were not operational in May 1948. Wastes from a peat-gas generating plant north of the tube rolling mill were used as fuel. The average size of the plant buildings was 80x35 meters. They were equipped with machinery of Soviet, German and American origin. For plant layout see Annex 2.***

6. Work Force

Three shifts each with about 1,800 laborers, 40 percent women.**

7 Production

Seamless pipes, up to 50 cm in diameter, with different lengths and 10 mm thickness, sewage pipes, threads, socket tubes, iron beds, steel cylinders for peat gas.

8. Plant Installations

The plant buildings were steel frame structures with slag-stone fillings and ferro-concrete roofs. Two workshops were under construction in October 1948. The tube rolling mill had four drawing dies for seam-less tubes, and the forge had four large bammers and several annealing furnaces. The workshops were heated by the peat gas generating plant via a pipe line system. A new building in the southeastern plant section had lathes and one annealing furnace. Tubes were presumably widened in socket-like fashion and provided with threads.

9 Production

Seemless tubes from 3 to 50 cm in diameter; daily shipments of 15 railroad cars of 50 to 60 ton capacity left the plant, often for Baku; tank wheels, 20 cm thick, 40 and 70 cm in diameter.**

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comment: This report gives the first post-war information on the plant, which has an old branch plant accordin; to war-time records. The location of both plants was not determined. The designation Novo Trubni Zavoz indicated that this report covers the new and larger plant.

25X1A

Comment: With a workforce of 12,000 laborers in 1940, the number of workers stated by source II seems much too low, especially as enlargements and production increase of seamless tubes indicate that the work force must also have been increased since 1940. The output of seamless-type tubes (Lource III) is, at least, equal to the total production of all type tubes in 1940 (168,000 tons according to old records).

25X1A ******

75 32

Comment: Comparison with previous records shows that the report does not cover all plant installations. Is the sketches agree only on some items, a clear picture of the present plant layout cannot be determined.

CONFIDENTIAL-CONTROL/US OFFICIALS ONLY 1/Annex 1

Legend to Annex 1

- A Tube rolling mill
 - 1 Magazine
 - 2 Model-making carpenter shop
 - 3 Molding shop
 - 4 Jaw mill
 - 5 Hardening shop
 - 6 Department No 12, no details available
 - 7 Tube rolling mill
 - 3 Unidentified workshop
 - 9 Foundry
 - lo Forge
 - 11 Two buildings under construction
 - 12 old carpenter shop
 - 13 New carpenter shop
 - 14 Timber and coal dump
 - 15 Technical office
 - 16 Department No 2, unidentified products were packed in boxes
 - 17 Peat-gas generating plant
 - 18 Janitor's house
 - 19 Peat dump No 703
- B Bread factory
- C Quarters, cantonment buildings
- D 300 meters to power plant

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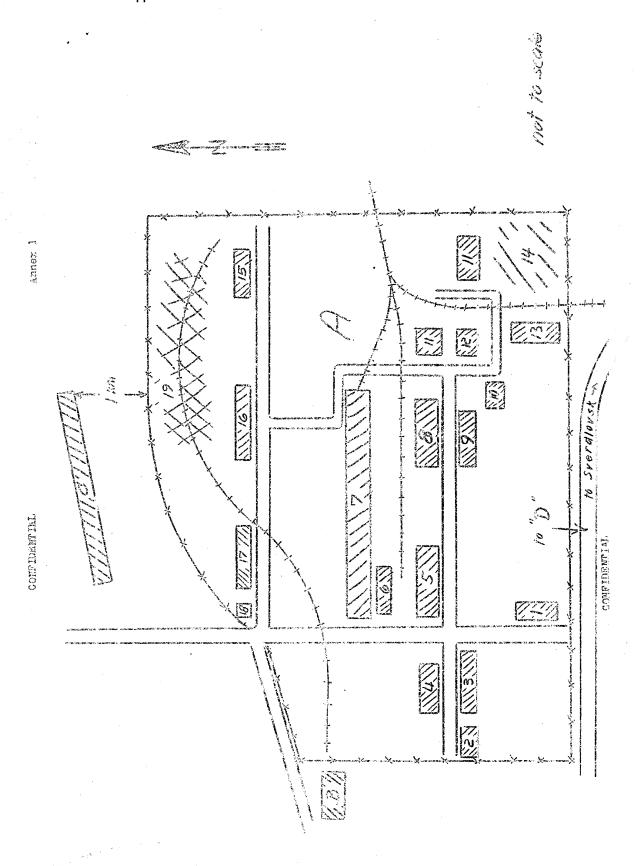
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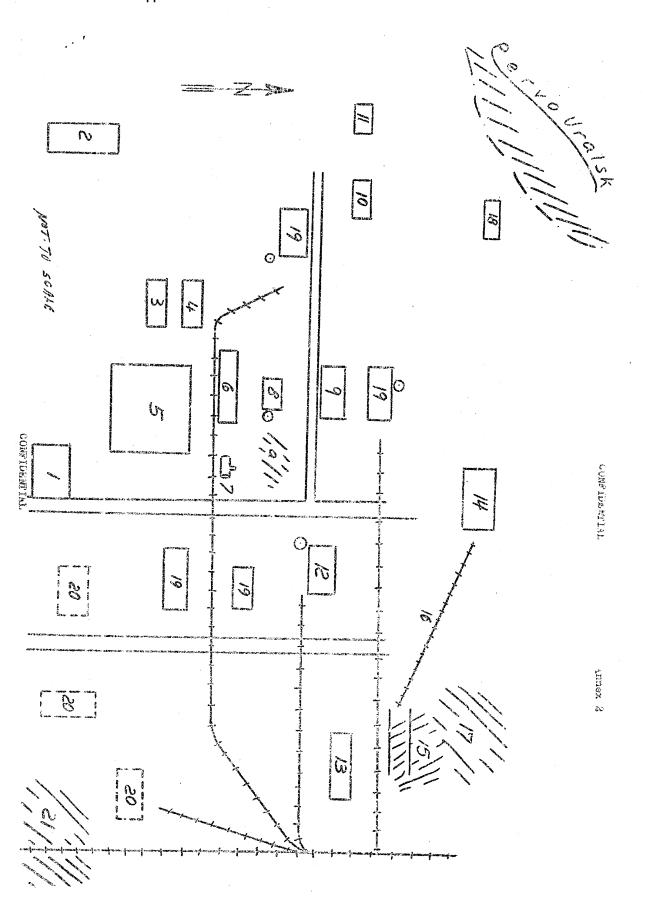
Legend to .nnex 2

- 1 Administration
- 2 apprentice school
- 3 Corkshop with straightehing machines
- 4 Department No 3 with two electric furnaces and acid bath
- 5 Tube cutting installation
- 6 Hanufactory of iron beds
- 7 Two or three underground ciltanks, each with 10,000-liter capacity. Filled by railroad tank cars at intervals of 6 weeks
- 8 Boiler house with Tive boilers, pump station, smokestack, bath for workmen a) Coal dump
- 9 Tube rolling mill
- lo Javmill
- 11 Carpenter shop
- 12 Foundry
- 13 Steel plate manufacture
- 14 Feat-gas generating plant, specially feacedin and off-limits to F/s. Conveyer belts transported the pest from the dumps to lorrics and to the plant where they were alevated and unloaded down into the installation
- 15 Poat dump with conveyor belts

CONFIDENTIAL-CONTROL/UJ OFFICIALS ONLY S/Annex S

16	Narrow-gauge railroad track
1,7	Tron dump
18	Dog cage
19	Unidentified building.
20	New buildings
23	rimbor and coal dump





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	orseres		1 30 x 600 Met. The intellations, though perction. According a fellow PWs, ander way since 1948. (Clant lay ut	
3.	Ho info	ormalo, on work	felice and output.	
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	revious corrand	a the sentral Ur a report, This in except for the stated to be co dimension of 1,2	dict and installations of the mai lower ral are area were first described for report fully cantings the previous area of the entire plant area, which inside ably smaller. The previously response to the considered to be	

b. According to available mass, the so-called Sugres Power Plant is in Skiddleuralsk. As the previous report also stated SLGRES to be the designation of the entire locality it is assumed that the place was either officially named or that the local residence call it so after this large power plant. SRED-MAURALSK (SUGRES?) is at the northeast corner of the Isetsk Lake, about five miles northwest of the outskirts of SVERDLOVSK.

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c. The previous report* contained presumably correct statements on work force and output of the power plant.

2 Annexes: 1. Location of SUGRES Power Plant hear SVERDLOVSK 2. SUGRES Power Plant near SVERDLOVSK

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Legard to amiex 2

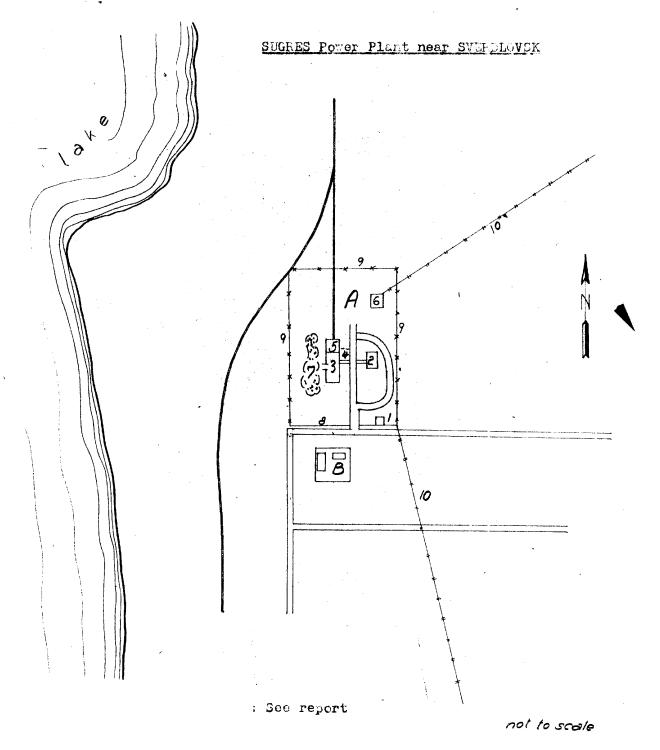
- A Power plant
- 1 Guardhouse
- 2 Multiple-story brick building, 35 x 75 feet, with small windows. Several high tension lines and an underground concrete shaft from the main building leads into the building which is nermanently guarded
- building which is permanently guarded

 3 Alin building, brick structure, 90 x 180 feet, height of a five-story building with windows the full height and eight steel smokestacks, two of which were alternately without smoke development. A railroad spur track led into the building
- 4 Szcavation, 50 x 60 feet, about 50 feet deep (working place of source)
- 5 New building, 75 x 90 feet, bare structure completed, without roof, somewhat lower than main building. The almost 50-foot excavation was filled with about 20-foot reinforced concrete
- 6 Open-air transformer station, 60 x 90 feet, about 12 transformers and excavations for several more transformers and cable tranches.
- 7 Coal dump
- 8 Scome wall
- 9 Earbed wire fence
- 10 High tension line
- B Sumsa-Zevod (plant), about 180-foot square, with a small brick building and a brick bay open on one side. According to follow Pas, steel structures for the expansion of the power plant were being made there.

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Annex 2



ำ วอบทำลัง'_	C: ASSIFICATION <u>อนบันน์ - อันเน็ล ปีโ/โอฮั บุรัน์"</u> Approved For Release 2002/01/17 : CIA-RDP83-00415R010900080009-3 <u>- อ. 1eg Union</u> REPORT	
TOPIC	SUGRES Power Plant near SVERDLOVSK	
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SOURCE		
1.	Location	
1	The SUGRES power pant is about line miles northwest of SVERDIC (60°40°E/56°50°N) Sverd bysk Oblast, not ive from a lake.)VSK
2.	Plent instellation	
25X1A	The plant erer is about 650 x 600 feet. The installations, the obsclescent, are in full operation. According to fellow PWs, expansion york has been inder way since 1948. (lant lay ut see Annex 1.)	uen
	No information or work fearce and output.	
	ommo.it:	
	a. The pin-point location and installations of the mai rewer point in the central Ural has area were first described in revious report. This report fully confirms the previous promotion except for the size of the entire plant area, which have stated to be considerably smaller. The previously recorded dimension of 1,200 millions feet is considered to be more proposle.	
	b. According to available majs, the so-called bugres Power Flant is in SEADLEURALSK. As the previous report also stated SUGRES to be the designation of the entire locality it is assumed that the place was either officialky named or that the local residence call it so after this large power plant. SRED BAURALSK (SUGRES?) is at the northeast corner of the Isetsk La about five miles northwest of the outskipty of SVERDLOVSK.	

c. The previous report* contained presumably correct statements on work force and output of the power plant.

2 Annexes: 1. Location of SUGKES Power Plant hear SVERDLOVSK 2. SUGRES Power Plant near SVERDLOVSK

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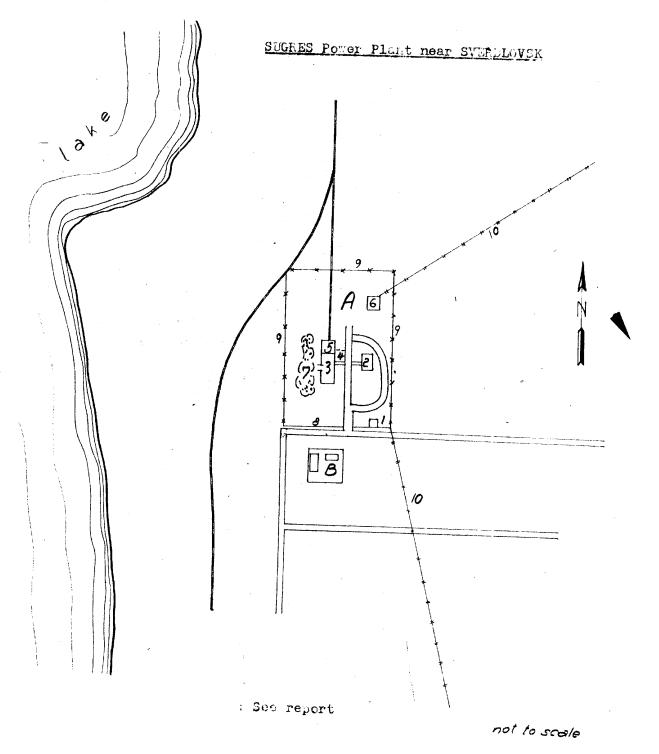
Legand to annex 2

- A Power plant
- 1 Guardhouse
- 2 Multiple-story brick building, 35 x 75 feet, with small windows. Several high tension lines and an underground concrete shaft from the main building leads into the building which is permanently guarded.
- building which is permanently guarded

 Main building, brick structure, 90 x 180 feet, height of a five-story building with windows the full height and eight steel smokestacks, two of which were alternately without smoke development. A railroad spur track led into the building
- 4 Accevation, 30 x 60 feet, about 30 feet deep (working place of source)
- 5 New building, 75 x 90 feet, bare structure completed, without roof, somewhat lower than main building. The almost 30-feet excavation was filled with about 20-feet reinforced concrete
- 6 Open-air transformer station, 60 x 90 feet, about 12 transformers and excavations for several more transformers and cable transfers.
- 7 Coal dump
- 8 Scone wall
- 9 Barbad wire fence
- 10 High tension line
- B Sumsa-Zevod (plant), about 180-foot square, with a small brick building and a brick bay open on one side. According to fellow Pas, steel structures for the expansion of the power plant were being made there.

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Annex 2



TOPIC Alleged Construction 25X1A	tion of Aircraft Engines in SV RDLOVSK	25X1A
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At a sifting of 40 records on Pv interrolations concerning the Ural_mash ORDSHONEKIDSE Heavy Eachinery Plant the following indications of the production of a rereft engines in SVIRDLOVSK (62°5'E/56°44'N) were found:

L. August 1947

Course heard from workers of the Uralmash Plant that socalled casings were sent from the tank engine department of the plant to the Moletov Aircraft Plant.

2. September 1947

Department No. 2 of the Uralnash Plant among others produced aircraft engine parts.

3. May 1948

There was a plant about 1.3 miles west of the Uralmash Plant, where took and sircraft engines were produced.

4. July 1948

The engine department of the Uralmach Plant produced tank

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and direraft engines, a total of about 150 units per day.

5. July 1948

Source heard that there was an aircraft engine plant in SVIRDLOVSK, about 1.3 miles from the Uralmash Plant.

5. September 1949

According to scuree, an aircraft engine plant, on which no further details were available, was located about 4 miles south to south-southeast of the Grainash Plant, slightly outside the perimeter of SVSHDLOVSK.

Common v:

a. The alleged aircraft engine plant located between the Grahmash Plant and SVELDEOVSK was previously mentioned in PW reports. This plant was allegedly built between 1945 and 1947. Its existence is not get confirmed since the information supplied by the PWs is based on hearsay.

b. This report makes it probable that an aircraft engine plant or at least an aircraft engine repair plant is located in SVLRDHOVSK.

c. Further and more accurate information on the plant is urgently required.

25X1A

COUNT RY	MIELLOFAX 5 Approved For Release 2002/01/17	61A-ROP83-00415R010900080009-3
	U:al-Khim='ash Plant Near Sver	dlovsk
5 ½1/A LUATIO	ON	25 X1
DATE OF	CONTI	
DATE OBT	TAINED	PARED 17 February 1950
REFEREN	CES	
		list of sources, 2 blueprints
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Medic Hallic Services has advant public county limited	CONTRACTOR AND CONTRACTOR CONTRAC	
SOURCE		
1.	Location, Designation and Traffi	c Facilities
5X1X	Annex 3) (sources 1,4,5,9,10,12 khimash (sources 12,13,14). Sou	nce 4 referred to "USHTM" (Ural- ashin) which is possibly a mere has spur tracks to the Sverdlovsk-
2.	Plant Management: Chief engine	er Lermann (25X1
3.	plant History:	
	Construction of the plant was pr Year-Plan. The following instal at the beginning of the war:	ovided for in the Third Five- lations were under construction scheduled annual capacity
	Forge and pressing department	10,500 tons of forgings
	Grey cast iron foundry	8,500 tons of grey cast iron
	steel foundry	9,300 tons of gteel castings
	Copper foundry	300 tons of copper castings
		coo vons or copper castings

In 1941 the installations of the solshevik angineering forks in kiev (50 27° 1/30 32° 1) were shifted to the tralachination kiesh Plant, which was still under construction (sources 7,9, and 14), and the production of aircraft ones (50 1) and shells (including morter shells) was started (sources 4,11,14,16). In 1945 the plant was converted to peace—time production and the old installations were returned. Considerable expansion work started in 1947 (colorgement of the foundry, construction of a new mickel bath, expansion of the old mechanical department, construction of a new boiler house etc.) (sources 2,3,4,5,6,7,8,12,13,14,15,16). Building work was not completed in adjust 1949 (source 16). Full—scale production is under way in the old plant section and in the completed new workshops.

4. Jork Force and Lorking Time:

According to sources1,3,4,5,9, and 16 the work force numbers 2,000 Russians and 400 Rus per shift. However, the greater part of the Pis was assigned to building and transportation work. Each was generally done in three shifts of eight hours each. Suilding shifts lested for 16 hours (sources 1,2,3,4,5,9, and 11). It appears that the third shift in the production departments is occasionally omitted. (sources 11 and 16).

5. The Pollowin Deport wants are Recorded: (with a smex 3)

a. Foundry (sources 1,3,4,5,6,8,10,11,13 and 15)

Installation: 1 furd ce (sources 4,13), capacity of the furnace about 1 ten (source 13). Lource 15 indicated two furnaces.

Lolding thep (source 4,15)
The travelling crames 2 tens each (source 13)
(The foundry is still under construction)
Freduction: Four tappings per shirt (source 13)
Costing of per tileels and machine parts (sources 6,13), steel plates (source 13).

b. Pattern-making shop: (sources 6,10,11,13,15)
Install tion: modern coodworking machines (source 15)
Production: mestaggeter machine parts, boxes for shipment (cource 6,15), furniture, building timber (source 15).

c. Rechanical department (sources 1,4,5,10,11,13,15)
Installation: horizontal drilling machines,
atout 30 lathes (center distance 1 to 2 meters)
I large vertical lathe
I large lathe (center distance 12 meters)
5 or 6 large lathes (center distance 8 meters) (source 4)
Ecurce 5 indicated the number of lathes at "about 20" and confirmed the large vertical lathes.

Froduction : no production details were recorded (see para 6)

3

d. Pressing shop, punching shop 1: (Sources 4,5,10,11,15) Installation: about 20 punches (source 5) several hydraulic presses (source 1)

Production: round and square bolos tree purched into plates of 250 ml25 cm (source 5)

e. Grinding shop (sources 3.5) (Probably housed with the lechance I dop resent in one building)

The installation is not recorded?

Production: Grinding and polishing of punched plates (source 5)

- f. Hickel both (sources 3,5,6,8,10,11,13 and 15)
 Installation: Five boths each 2.6x1.5 Leters (source 5)
- . hardening shop is in the same workshop room according to sources 6 and 11.

Production: nickel plating and chrone plating of eachines and apparetus parts (sources see above.(

- G. Rochemical Department 2 (sources 3,5,6,8,10,11,13 and 15) Installation: According to source 5: as in the Rechamical Department 1.

 About 20 lathes as well as one large vertical lathe. In addition, source 13 indicated milling machines. There were turnet 1 thes and vertical turning and boring machines as well as shaping machines according to source 15. Production: gear wheels, crarkshafts and other small parts (sources 6,8).

 Source 8 learned from Aussian workmen that 20 crankshafts, 1.2 meters long, were produced weekly.
- h. Pressing shop and punching shop 2: (Sources 3,4,5,8,10,13, and 15).
 Installation: Three large plate shears, three large electric presses, two of three cranes 0.5 tens each, one annealing furnace (source 13).
 Production: sheet metal containers for ter and gasoline as well as deviced for boiler construction (sources 15 and 15).
- i. Nickel bath 2: (sources 3,4,5,6,11,13 and 15)

The installation and production are not recorded. The workshop building was still under construction at the time of observation.

k. Boiler forge (sources 1,3,4,5,6,8,10,13 and 18)
Installation: Three medium-sized pneumatic harmers (sources 1,4,5,8 and 15)
I large pneumatic harmer (source 15)
3 large punches (sources 4,13)
E large annealing furnaces with oil miring (source 15)
3 small annealing furnaces with coal firing (sources 13,15)
3 field forges (source 15)
Traveling cranes

a beginerated is it the element size of the large (source 15)

4

Ampliction: boilers of v rises sizes with unstraction, liesfilters (1.5x1.3 novers. 6 as. 5 e) ; which a rise 4 esters long and 5 ac in jackness (account)

It recails show he forms (some 6.0 may 13)

Interiors and 8)

Freduction: tooling of Large form pieces (source 4).

Installation: apparatuses for autogenous relaing (source 13) Production: assembly welding of places: relaing of boilers, reprint for plant requirements (source 13 and other sources are para 6 of report).

n. Old Boiler Rouse (sources 1,5,4,5,10,11,15)
Installation: Four boilers tith coal firing (source 4)
A limeter smokestack (source 4) - Jource 15 indicated eight boilers which is loss probable.
Froduction: herting of the plant, warm water supply (source 15)

- o. New holler house (sources 4.16,11.15)
 Ingaclartion: source 15 indicated 16 to 15 boilers which may
 be exaggeration.
 Production: heating of the plant and hot water supply (source 15)
- p. Compressor station (sources 3,4,5,10,13,15) installation and production are not recorded. The station was still under construction at the time of observation. Thick smokestack was also under construction at the eastern side of the workshop building.
- q. Transformer station (sources 4,6,10,11) Power is supplied from Syerdlovsk.
- r. Depots
- s, administration
- t. kitchen and mess hall
- u. Factory for building materials (used for the supply for plant building projects)
- v. Guard houses
- w. Scrap dump
- E. Coal dump.

6. Projuction:

The plant obviously did not reach its originally planned capacity (see para 3 of report). In increase will not be reached before the new construction projects (roundry, now nickel both etc.) are completed. However, the capacity of the new Youndry installations

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cannot be ascertained. It can be inferred from the occasional omission of work shifts that the different plant departments (or the rew material supply) are not yet coordinated.

- the Lind of production:
- (1) boilers (sources 3,4,6,11,13.14,15)

Large boilers, 16 to 14 meters long 2 meters in digmeter, 10 to 14 m thick, small boilers, 3 to 4 meters long, 2 meters in digmeter, 10 to 14 m thick with unscrewable lid.

The interior of the small boilers was lined lith numerous mickel-ploted pipes. The pipes were 5 on in diameter and had a wall thickness of 16 am (source 11).

(2) Funch-holed and michel-plated steel plates (sources 3,4,7, 10,11,13, and 14).

The following place sizes were indicated:

- Source 3: 5x2.5 neters, designated by Pus "enthodes" and "anodes" (possible reference to nickel-plating process)
- Lource 4: 1.8x1.5 meters, 8 om thick, designated "filter". One million pieces were allegedly ordered once in 1947
- Source 7: 3x2 meters. 5 to 10 mm thick. Perforated with 10 mm diameter holes of 10 mm intervals.
- Jource 10: 2.5x1.5 meters. Pro plates each were riveted with 20 mm intermediate space.
- Source 11: 1.5x 1 meters, 5 mm thick. Three plates each were riveted with 30 to 50 mm intermediate space.
- (3) Tachino parts (sources 2,3,4,5,6,7,9,10,11,13,14,15) including gear whoels of different sizes (sources 11,13,14,15) source 15 indicated diameter sizes ranging from 20 to 40 cm.

Transmission shifts (somees 4,10,14,15)

Grankshafts (sources 7,7,11,15). Lource 9 indicated a length of 1.2 meters.

Pittons (sources 4,10)

Gonnecting rods (source 10)

Exles (sources 2,5,14/ Lource 3 indicated 1.5 meters long and 25 cm in diameter, source 5 indicated 8 and 4 meters long and and 50 cm in diameter.

- (4) Secondary products (sources 3,9,10,13) iron bedsteads, (mso ine and ter containers, parts for plant construction work.
- b. Mount: According to source 4 part of the plant capacity was required for the edistruction of the plant during the time of observation. To action proper therefore relained on a small scale.

SECALT-CONTROL/US OFFICE 6

HH

- (1) Boiler production: Four units monthly according to source 6 and three large and to small units monthly according to source 11.
- (3) Pl to production:

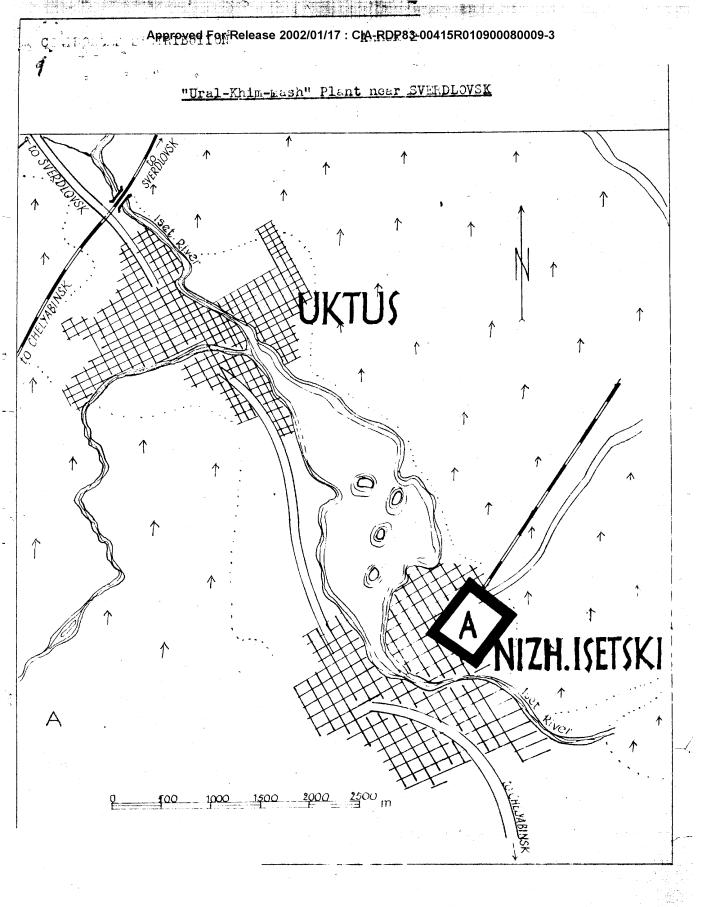
be plates anily mecording to source 10; 25 plates per shift (with two daily shifts) according to source 11.

(3) Franksh Its:

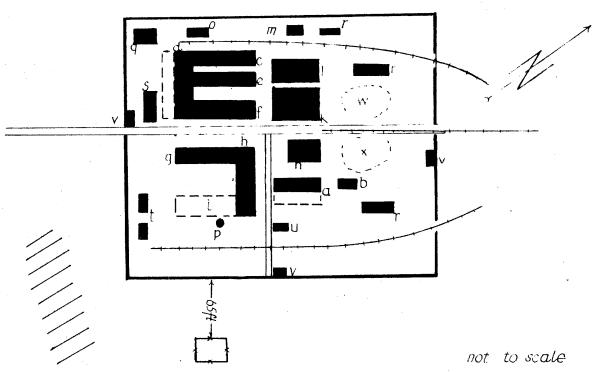
26 pinces weekly according to source 7 Lource 16 indicated the waste percentage of 5 percent. The bodlers were shipped to Leningrad according to sources 6 and 11.

7. Security:

The plant is surrounded by a high fence and watch towers (all sources). Gyard duty is done by armed militia.



Sketch of the "Ural-Khim-Mash" Plant near SVERDLOVCK



Legend:

- Foundry
- Pattern-making shop
- Mechanical department
- Pressing shop, punching shop
- Grinding shop
- Nickel bath ſ
- Mechanical department 2
- Pressing shop, punching shop
- Nickel bath
- Boiler forge k
- Hardening shop and forge 1
- m
- Welding shop Old boilerhouse n
- New boiler house

- Compressor station
 - Transformer station
- Depots
- Administration
- Kitchen and mess hall
- Factory for building materials
- Cuard houses
- Scrap dump
- Coal dump

Housing blocks

PW Camp No. 7314/6

<u> </u>	yelan manon		
A Principal Control	. 5 %.	Approved For Refease 2002/01/17 CIA-RDP83-00415R010900080009-3	
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versaler i Bo Statistic (St. Sp. velus i e .		The same of the sa	
SOURCE			
	1.	Location:	•
		The plant is located in the northern section of Sverdlovsk (60°40° E/56°50° N).	
	2.	Plant installations: Of the very extensive plant area, which was impossible to survey, source reported the following departments where he worked:	3
		Department 31, press cutting shop Department 53, polishing shop Department 80, lathe shop	
		according to poviet statements, the Sugres lower Plant to the northeast, supplied the current for the plant. For sketches of workshops see Annex.	
	3.	work force: No details available.	
5X1A	4.	Production: Casts of various kinds, driving wheels for V-belts twin-cylinder blocks for pumps.	,
		Co ment:	
		a. The Ural Mash Plant in Everdlovsk was repeatedly remorted. The location is sufficiently clarified.	
		b. This report and the sketch will be useful for the plant evaluation, considered with other information. A series of smal reports will be required to obtain a final picture of this extensive plant.	1 n-

1 ...nnex, Dlueprint: Ural Hash, Ordzhonikidze Plant for Heavy Industrial Hachinery in Sverdlovsk.

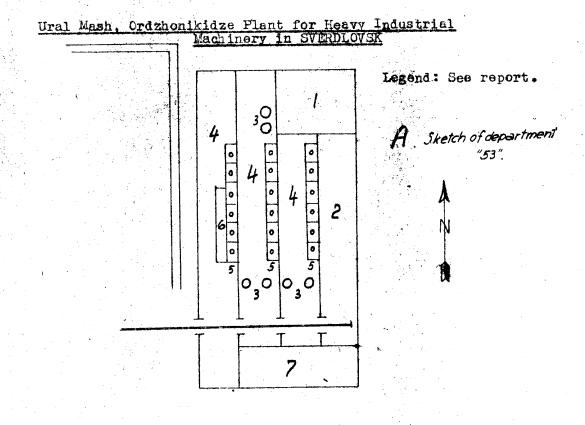
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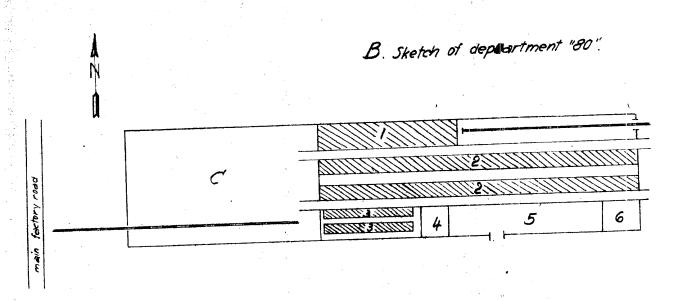
Logend to Annex:

A Department No. 53: 90 x 45 meters, four longitudinal sections;

polishing shop

- 1 Tools supply
- 2 Fitting shop with three traveling cranes
- 3 Six polishing drums
- 4 Folishing shops with three 30 ton traveling cranes each
- 5 Three sets with five to six sand blastings for polishing
- 6 Celaing shop
- 7 Office, kitchen and messhall
- B Department No. 80: Lathe shop, 90 x 30 meters, solidly constructed building
 - 1 12 to 15 boring and turning mills, about 1.8 meters in diameter
 - 2 Two rows with many lathes, drilling machines and milling machines
 - 3 15 to 18 lathes
 - 4 Office
 - 5 Welding shop
 - 6 Carpenter shop
- C Plant department No. 31: Press cutting shop, 58x30 meters, Annex of department No. 80, equipped with large press cutting machines and flywheels.





scale about 1:1,000

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- The dates 1928-1930 are painted on the signboard placed over the entrance gate of the well-known Ural-Mash Plant in SVERDLOVSK, Sverdlovsk Oblast, (60 40 E/56 50 N)
- Gun barrels, ship's shafts, and sections for tank tracks were cast in Department No 37; oil pumps were manufactured in Department No 80.
- The construction of two workshops was begun in the southwest part of the plant in the Spring of 1948.
- Λ work force of 10,000 to 15,000 men worked in each of the three shifts.
- The production of tanks was discontinued in mid-1947. Production in June 1948: Gun barrels, ship's shafts sections for tank tracks, oil pumps, small parts.
- For plant layout, see Annex.

25X1A

Comment:

a. Several reports have been transmitted on the Ural-Mask Plant in SVERDLOVSK. This report is of particular value since it confirms previous information * on the location of the plant. It seems established that the plant, as seen from the Red Square, extends towards the west and not, as was assumed in previous reports, toward the east.

b. A comparison of the previously received data on the location of the plant with the German town sketch of SVERDLOVSK of January 1942 shows that the Ural-Mash Plant is identical to Object 4e of this sketch. Whether the data of this old German large sketch, according to which the part comprises four independent large blocks of workshops,

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Is correct cannob be stated. However, the statement on the four blocks of independent workshops seems doubtul, since none of the returned German Pks mentioned the other sections of the plant. Possibly the PWs were restricted by to one of the sections for certain reasons.

- It will hardly be possible to obtain a clear picture of this important and large plant from PW reports alone. It will, however, be attempted to clarify this picture as far as possible through reports of a more recent date.
- The attached sketch is only a schematic diagram. As regards the main production workshop, the power house, and the boiler house in addition to some other minor buildings it is, however, in agreement with almost all theoreviously received sketches.
- Ural-Mash Plant in SVERDLOVSK. 1 Annex:

Legend to annex:

- 1. Main gate and guardhouse
- 2. Administration building
- 3. Tank monument.
- 4. Norkshop, 180 x 300 feet, no details available.
- 5. Same as 4.
- 6. Foundry, 180 x 300 feet (machine parts of brass, copper, and aluminum)
- 7. Steel foundry, casting and machining of ship's shafts; a mess hall is on the second floor.
- 8. Locksmith's shop and precision mechanical department, 30 x 150 feet.
- 9. Lathe department for small parts, 60 x 150 feet
- 10. Manufacture of tools, and tools store, 60 x 150 feet.
- 11. Six smokestacks.
- 12. Locomotive repair shop
- 13. Plasma Plant, production of hard rubber, baccalite, and of products made of these materials.
- 14. Department No 37, about 120 x 600 feet, with two sections; a furnace is in the southern section. Production of large carts.
- 15. Processing of unfinished products delivered from Lepartment No 37.
- 16. Mechanical department No 80, 120 x 450 feet. Production of oil pumps and pump parts.

- 17. Assembly of oil pumps and paint shop, 60 x 150 feet.
 18. Fank engine department, 90 x 360 feet.
 19. and 20. 180 x 300 feet; new buildings begun in the Spring of 1948.
- 21. Motor vehicle repair shop
- 22. Boiler house
- 23. Iwo water towers, each aboat 100 feet high.
- 24. Power station.
- 25. Concrete plant, 60 x 150 feet.
- 26. dormerly tank assembly hall, about 300 x 1,000 feet; offlimits to PWs, now assembly hall for AT guns,
- 27. Fuel and oil dump consisting of several groups of two or three tanks each, partly dug into the earth.
- 28. Pank plates dump.
- 29. PW Camp No 7531/3.

KK

Legend: See report

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REFERENC PAGES	1	ENGLOSURES (No. & TYPE) 1-sketch on ditto	ANNEX LL	
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SOURCE	25X1	X	I	
	1.	'he plant is in the northern part of marpinsk 59°59'E/59°47'N), Sverdlovsk Oblast, between a motor plant and railroad car maintenance. *		
	2.	A foundry and a forge were under construction in September 1949. The plant had a railroad connection. Power was supplied by the Turinsk Power Plant.		
	3	In August 1949 the work force consisted of 1,000 Soviets and 40 PW specialists.		
	4	The plant assembled large coal dredgers using American component parts up to 1947. Then deliverie of these parts were stopped the plant repaired dredgers and farming machines and produced the required spare parts. The construction of the mentioned merican dredger sawas planned for 1950.	s	
25X1A				

Comment. The report is supplementary to previous information which had very incomplete location data. For location and plant layout see Annex. With the installations at both sides of the plant this report gives useful landmarks for the pinpointing of the plant and contains new details on the plant production. For the lack of maps of the Karpinsk area, the plant cannot be pinpointed.

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The attached plant layout widely differs from a reproduction in and cannot be charified without further information.

1 Annex: Ravoinsk Rechine Repair Plant.

COMPLEMENTAL/CONTROL/US OFFICIALS OHLY

Annex

Legand:

- A Machine Repair Plant
 - 1 Kitchen and canteen
 - 2 Area with many old dredgers and dismantle! German machinery
 - 3 Main gate
 - 4 Paved plant road
 - 5 Administration, long two-story brick building
 - 6 Garage (new construction)
 - 7 New forge, brick building with flat roof, with drop forge and steam hammers, not in operation in September 1949
 - 3 New foundry, under construction, former hangar, the structural parts of which arrived by railroad and were fitted by PWs. Boxes containing these parts had the inscription of Berlin.
 - 9 Old foundry with hand moulding shot and two cupols furnaces, Production of cog theels and conical wheels.
 - 10 Department No. 2, brick building with many metal-working machines
 - 11 Department No. 5/7, plant repair shop
 - 12 Locemotive repair shop, repairing Austrian 120-ton locomotives. Nos 10 through 12 were one building 200 meters long and 8 meters high
 - 13 Railroad connection

GOUPEDERTAE/GOTTROL/US OFFICE LL GHLY

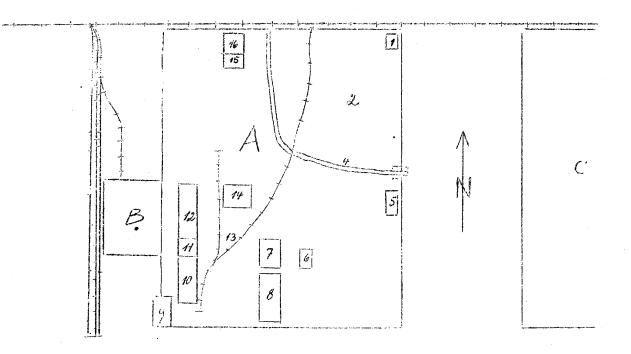
annex

- 14 Boiler house with five American flue boilers, for steam generating for the clant
- 15 Department No. 1, lather on willing shor, 3 meters high brick building with flat reef
- 16 Forge
- B Railroad car maintainance
- C "Energo-Notortsekhni".

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Annex

Karpinsk kachine Repair Plant



Legend: See report

1 -	For Release 2002/01/17 : CIA-RDP83-00415R010900080009-3	25X1A
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SOURCE		

- 1. Details on the aluminum plant, about 3.5 km southeast of damensk Uralsk (61054'E/56026'H), Sverdlovsk Oblast, are given in the attached sketches.
- 2. Jork force:

Three shifts with a botal of about 30,000 laborers (poviet statement).

25X1A

Comment:

The attached plant layout and legend give detailed information on the important aluminum plant in Ramensk Urelsk, and correspond to a previous sketch * (the first received) on several essential plant installations. although they approximately agree on location and designation of the bauxite mills and washing plants (so-called "Klinarsong") and the new electrolysis shop, the sketches disagree on many small plant buildings. Therefore, the actual plant layout cannot be determined. although this partially confirmed report may give an approximately correct reproduction of the plant leyout, additional information is required to obtain clarification. The sketch of the tossing tub (Annex 2) is the first received on such an installation. 2 innoxes: ilupprints, Aluminum Plant UAS in Remensk Uralsk.

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COLUMN ANTINA/CONTINA

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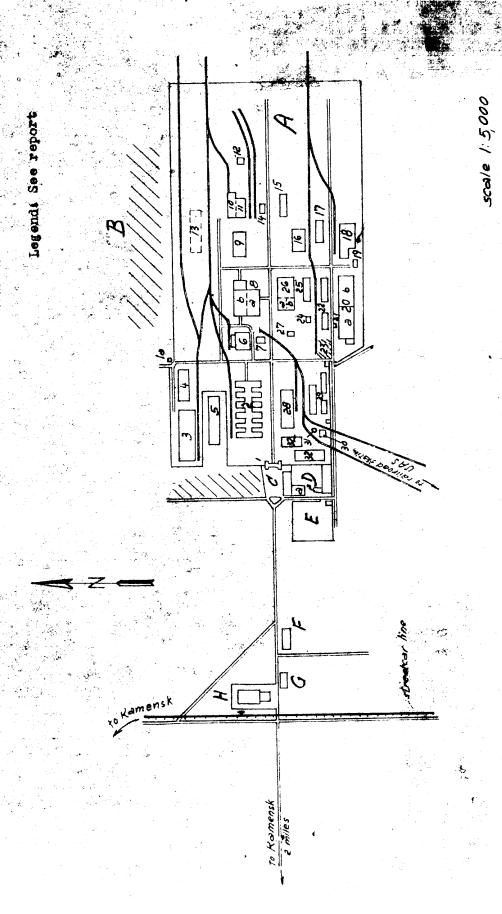
lerent of annex 1:

MM

- least telth two control buildings, total leagth 25 meters
 - a Cate for Pis and vehicles
 - b Gate for vehicles
- Let electrolysis shop, 90x40 meters, with six parallel workshops, connected by a middle section with crane installation. The crane rails branch off to two sides which are equipped with 10 to 12 tubs.
- E Old electrolysis show, ECX25 meters, obsolete but still in operation
- 4 stores with tubs, barrels and electrodes
- E One-story plant building, with gable roof, milk-glass windows and noise of motors heard from outside, nurnose unknown
- 6 Stone building, 25x25 meters, four stories, stone mill, the stone dust being put into sacks and barrels and shipped to the old and new electrolysis shops
- 7 Fread magazine
- 8 "Elinarsons I", stone structure 40x40 meters with annex
 - a "hite" side
 - b "med" side, equipped with 20 to 25 tossing tubs (also see manex 2)
- 9 Franch section of Alinarsong, 40x20 meters, equipped with several tubs
- 10 Jo-called "red earth shor" 40x12 meters, unloading station and presumably also underground conveying to dimarsons I and II
- li tone-cracking installation, 20x18 meters, products shimed away on conveyor belts
- 12 Office
- 13 luilding under construction, bare structure completed and roofed, construction temporarily discontinued, nursose unknown
- 14. Old stone-cracking installation, not in operation
- 15 storage seed
- 16 hew foundry, 70x20 meters, still under construction, installations come from the old foundry
- 17 losed wholes shed

** 🖔 **

- 18 Franch section of Alinarsons, like Lo. 1 above
- 19 less hall for civilian latorers
- 20 Alinarsons II with white and red workshop, same processing as Alinarsons I
- 21 Transformer station
- 22 Two closed storage sheds
- 23 Pile with aluminum bers
- 24 Food stores
- 25 Open storage shed with glass root, bricks and construction materials
- 26 old foundry, 50x25 meters, not in operation, installations being dispentied,
 - a lechanical workshop
 - b less ball for Loviets
- 27 Small weakshor
- 28 llack workshop, stone structure, 60x20 meters; coal similar to iriquettes is unloaded and shipped to the building
- 29 Three wooden storage sheds
- 30 Curpenter show and office
- 31 Ter rachine
- 32 Two stone office buildines
- h area of power plant with six spokestacks, each 60 meters high
- # Presumably nost office
- D Parking lo:
 - a Jmall workshops
- d Carking lot
- F has stop with weiting room and photographic studio
- G . Casclin; stution
- i. __otiow picture theater, constructed in 1046/1948

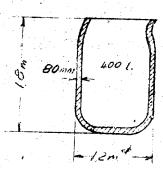


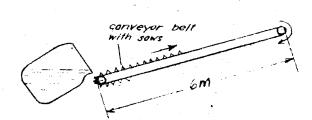


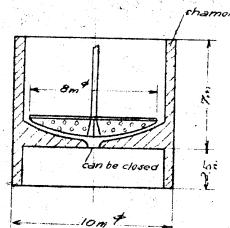
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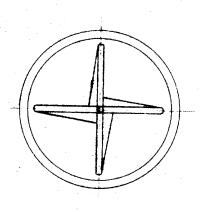
molten aluminum

Pig machine









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	.;	Details on the aluminum plant, about 3.5 km southeast of Kamensk Uralsk (61054'E/56026'N), Sverdlovsk Oblast, are given in the attached sketches.	
	2.	ork force:	
	. :	Three shifts with a botal of about 30,000 laborers (oviet statement).	
25X1A		Corment:	-
	;	The attached plant layout and legend give detailed information on the important aluminum plant in Mamenek Uralsk, and correspond to a previous sketch * (the first received) on several essential plant installations. Although they	

The attached plant layout and legend give detailed information on the important aluminum plant in Hamensk Uralsk, and correspond to a previous sketch * (the first received) on several essential plant installations. Although they approximately agree on location and designation of the bauxite mills and washing plants (so-called) "Klinarsong") and the new electrolysis shop, the sketches disagree on many small plant buildings. Therefore, the actual plant layout cannot be determined.

Although this partially confirmed report may give an approximately correct reproduction of the plant layout, additional information is required to obtain clarification.

The sketch of the tossing tub (Annex 2) is the first received on such an installation.

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Lerend of Annex 1:

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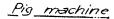
- l cain gate with two control buildings, total length 35 meters
 - a Cate for P./s and vehicles
 - b Gate for vehicles.
- Let electrolysis shop, 90x40 meters, with six parallel workshops, connected by a middle section with crane installation. The crane rails branch off to two sides which are equipped with 10 to 12 tubs.
- E old electrolysis show, ECx25 meters, obsolete but still in operation
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- 5 One-story plant building, with gable roof, milk-glass windows and noise of motors heard from outside, purpose unknown
- the stone dust being put into sacks and barrels and shipped to the old and new electrolysis shops
- 7 Eread magazine
- 6 "Minarson I", stone structure 40x40 meters with annex
 - a "mite" side
 - b "Red" side, equipped with 20 to 25 tossing tubs (also see .nnex 2)
- 9 tranch section of linearsong, 40x20 meters, equipmed with several tubs
- 10 Jo-called "red earth show" 40x12 meters, unloading station and presumably also underground conveying to Alinarsong I and II
- ll tone-cracking installation, MOx12 meters, products shipped away on conveyor belts
- 12 office
- 13 luilding under construction, bare structure completed and roofed, construction temporarily discontinued, nurmose unknown
- 14 Uld stone-eracking installation, not in operation
- 15 Storags seed
- le new foundry, 75x20 meters, still under construction, installations come from the old foundry
- 17 losed wooder bhed

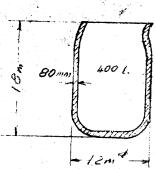
18 Franch section of Alinarsons, like Lo. T above

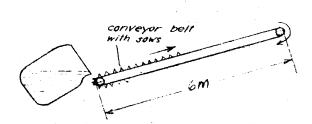
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- 19 less hall for civilian laborers
- 20 Alinarsons II with white and red workshop, same processing as Alinarsons I
- 21 Transformer station
- 22 Two closed storage sheds
- 23 Pile with aluminum bars
- 24 Food stores
- 25 Open storage shed with glass rool, bricks and construction materials
- 26 916 foundry, 50x25 meters, not in operation, installations being dismentled,
 - a lechanical workshop
 - b less hall for Loviets
- 27 Small weekshop
- 28 Plack workshop, stone structure, 60x20 maters; coal similar to triquettes is unloaded and shipped to the building
- 29 Three wooden storage shods
- 30 Carpenter show and office
- 31 For mechine
- 32 Two stone office buildings
- i ares of power plant with six spokestacks, each 60 meters high
- # Presumably most office
- D Farking los
 - a _mall workshops
- A Parking lot
- F has stop with maiting room and photographic studio
- 0 Cascling station
- L Lotion picture theater, constructed in 1946/1949

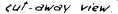
molten aluminum

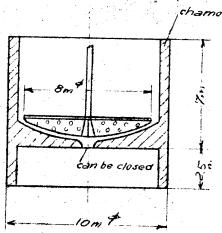


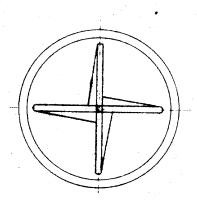




Tossing tub.







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1 Location

The Was Aluminum Plant is about 4 km of Kanonsk-Uralsk (31°54; E/56°56; N). Gverdlovsk Oblast, east of the rail-roga line going to Chelyabinsk, and 3W of the Iset River and 32 of the new town of Uas

2, Plant Installations

- a. Soviet workers said that the plant was erected before the war and that the town of Was, the workers settlement, was established in 1940. All plant departments, with the exception of the foundry were operating in 1945. The foundry was completed and equipped in 1946. Other new constructions were not observed.
- b. The plant covers an area of about 1,200x1,000 meters.
- c. To the east the plant adjoined a power station covering 540x270 meters. The power station, which is coal fueled, was built at the time the aluminum Plant was creeted. The water for the power plant was drawn from the Iset giver. For this purpose a dam, 100 meters long, 7 meters wide and 6 meters high (above water level), was constructed. The river is very shallow.
- railroad connection for the individual plant departments was available. The terminus of a Acmensk-Uralsk streetcar line is west of the plant.

For plant layout see Annex.

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5. ork porce

pover station, employed 40,000 morkers. Jource could not estimate the number of 1 borers employed but reports that four joviets worked on each of the 300 furnaces.

4. Froduction

Aluminum ingots of verious sizes.

25X1A

Corment:

the location of the plant as shown on the attached sketch is confir led by previous reports. The sketch on the plant layout, furnished by source, is the first received since the war and is therefore especially valuable. The observation that, contrary to other aluminum plants, no new construction work was done up to the middle of 1948 is considered to be of special interest.

1 Apriex: Use Aluminum plant near Kamensk-Uralsk.

legend to Annex

luminum plant

- 7 Repair shop for cranes used at the bauxite area, 10 (250 meters
- 2 melding shop, 50x10 meters
- gauxite unloading shop, 150x80 meters, with two reilroad tracks and a parking area for :3 12 freight cars of 60 tons each; equipped with grabs, conveyor belts and rough stone crushers.
- Bauxite mill, 150m90 meters, with numerous roller mills. The rocks are sorted and ground coarse and fine
- Hall, designated "Red Hall", 150x120 meters. bauxite washing plant
 - pipe lines to No 6. There were two cylindricel-shaped washing machines, 5 meters high and 10 meters in diameter, in this hall with stirring installation. The hot water come from building No 14.
 - . Filtration plant was on the first floor.
- Hall, designated " hite Hall," 120x100 meters, bauxite processing, a flour-like blading agent is being added. In underground passage loads from the white Hell to the corpusion, a lovist designation for the electric furnaces.

The buildings S through 6 were descinated by the loviets as "l Llineson"

- Tron stor no
- A NOT foundry, completed in the Full of 1946, 150x40 motors, with two electric smelting furnaces and two moldin, medines. Production of steel balls for the mills and of iron parts,
- Repair department, 100x150 motors, with
 - a old foundry b force

 - e nechanical workshop
 - d electrical department
 - e. mess ball
- lo Storage shed, 70 meters long and 6 meters deep, according to poviet statements used for the storege of "creolith"
- 11 Storage, 80 meters long, 19 meters deep, wooden

NN

13 (horago: 15cm20 meters; dextrine and a flour - lake meterial packed in linur and paper bags are stored here

Protective suits were also stored here

13 dramsformer station

. .

- Herving plant, Sample meters, with several heating furnices for hot water to be used in the bauxite wishing plant
- Joke storage, 70x10 meters
- idministration building 70x50 meters, threestory, laboratory
- 27 Vil storego, six oil fends, for the sumply of the power plant. The banks re 8 motors high and have a discover of log metaps.
- TE remails unlocalmentables, temperatures, title condition a communition, entropied as No. 3
- 10 a multo will be to chica plant. See motors square, sitt ocaveror beste min; to No 18. (anot 11 tions 10 and 18 were designated by the Lovieto as 42 klimancome.)
- Torkshop, leaded notors, with four furnaces and sever I wills where an unknown rock was sating ground; dellow for elained the rock was "ersolithe, be be further processes in the "korpuses".
- File Actions in 20.
- If ht "Koupuse" each locks motors. Lock "Korpus" is divided by a passme, on each side of which are 9 or 10 altrinum furnaces. In each shop are about 23 to 40 of whose furnaces. The eight halls have a total of 280 to 221 furnaces. The halls have a meters for all furnaces is factors from and 2 actors in diameter and extends functors above the floor and down into the basement. The furnaces have pine lines.
- Two cluminum foundries each 100 meters severe The Pelted Liminum was bouled to the Introdeed Trop the Rorpusser in specialize containers on small carts. It was liquified whim in heating lurneces and cast to ingots.
- The contract of the contract o

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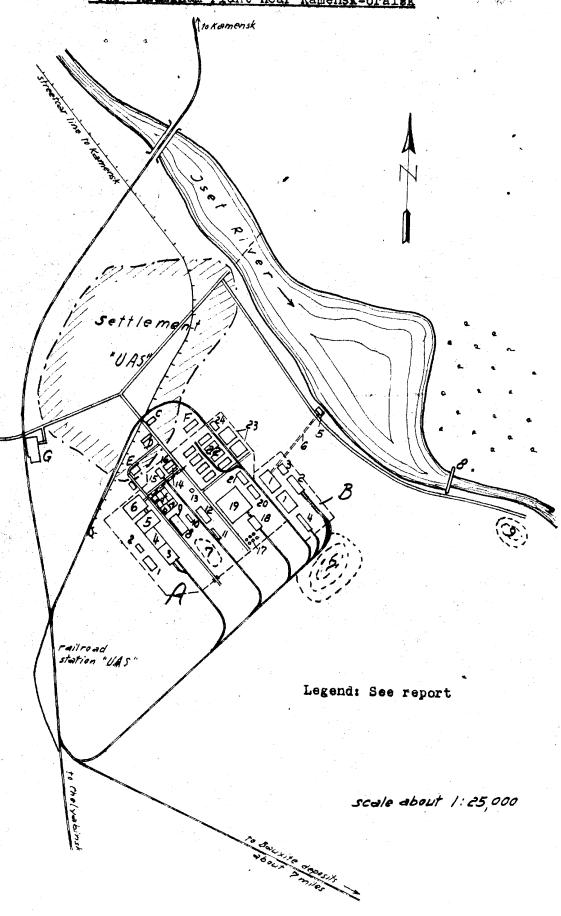
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P Power Plant

- l Two boilers and turbine houses, each 150x70 meters each house having three smokestacks
- 2 Coal unloading hall, 140x20 meters, with two railroad tracks, parking area for 20 railroad cars, each 60 ton capacity; grabs and conveyor helts to transport the coal to building No 3
- 38 Coal grinding plant, 30x20 ceters
- 4 Coal unloading hall, 140x7 meters with one rollroad track, other equipment like No 2
- b pump station
- 6 Jever 1 pipe lines, each 1 meter in disceter
- 7 Large coal storage
- 8 pain, 100 meters long, 7 meters vide and 8 meters above the water level
- 9 Jlag dump
- C Novies and pheaver
- D Garage and Tarking Los
- d protor Vehicle Repair Shop
- F | Tire pepartment
- G PW Camp No 7314/8.

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"Uas" Aluminum Plant near Kamensk-Uralsk



c. To the east the plant adjoined a power station covering 540x270 meters. The power station, which is coal fueled, was built at the time the Aluminum Plant was erected. The water for the power plant was drawn from the Iset River. For this purpose a dam, 100 meters long, 7 meters wide and 6 meters high (above water level), was constructed. The river is veryshallow.

d. railroad connection for the individual plant departments was available. The terminus of a kamensk-Uralsk streetear line is west of the plant.

For plant layout see innex.

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5. ork porce

pover verkers claimed that the plant, including the power station, employed 40,000 workers. Source could not estimate the number of 1 borons employed but respects that four soviets worked on each of the 500 furnaces.

4. Production

Aluminum ingots of verious sizes.

25X1A

Comment:

the location of the plant as shown on the attached sketch is confirmed by previous reports. The sketch on the plant layout, furnished by source, is the first received since the war and is therefore especially valuable. The observation that, contrary to other aluminum plants, no new construction work was done up to the middle of 1948 is considered to be of special interest.

l anex: Was aluminum plant near Kamensk-Uralsk.

legend to innex

Luminua plant

- l depair shop for orange used at the bauxite area, 1 (CASO meters
- 2 .elding shop, 50x10 detors
- Bauxite unloading shop, 150x80 meters, with two reflected tracks and a parking area for 12 freight cars of 60 tons each; equipped with grabs, conveyor belts and rough stone crushers.
- 4 Bauxite mill, 150m90 meters, with numerous roller mills. The rocks are sorted and ground course and fine
- 5 Hall, designated' "Red Hell", 150x120 meters, bauxite washing plant
 - a pipe lines to No 6. There were two cylindrical-shaped tashing machines, 5 meters high and 10 meters in diameter, in this hall with stirring installation. The hot water come from building No 14.
 - . filtration plant was on the first floor.
- 6 Hall, design ted " hite Hall," 12cx100 meters, bauxite processing, a flour-like binding agent is being added. In underground passage loods from the " thite Hall" to the corpusion, a lovist designation for the electric furnaces.

The buildings 5 through 6 were despirated by the poviets as "I blineson"

- 7 From storing
- 8 Act foundry, completed in the Fell of 1946, lbux40 meters, with two electric smelting furnaces and two molding machines. Troduction of steel balls for the miles and or from parts.
- 9 Repair department, 100x150 motors, with
 - a old foundry
 - b force
 - c mechanical workshop
 - d electrical department
 - e. mess hall
- 10 Storage shed, 70 meters long and 6 meters deep, according to poviet statements used for the storage of "creolith"
- 11 Storage, 80 meters long, 10 meters deep, wooden berrals

NN

13 Storage, 15cx20 meters; dextrine and a flourlike meterial pecked in lines and paper bags and stored here

Protective suits were also stored here -

- 13 Transformer station
- Herting plant, Sax20 meters, with several heating furnaces for hot water to be used in the backite wishing plant
- 15 goke storege, 70x10 meters
- lo dranistration boild.hap, 70x50 actors, threestory, laboratory
- 20 Oil stom to, six oil tenes, for the surply of the power plant. The traits are 8 motors night and have a disactor of 16 meters.
- 18 gauxite unlo ding station, leaned determ, while a mailro d connection, equation is no 3
- negative rill and the black plant the meters setters, with conveyor belief joing to To 18. (meteritations in and 18 years designated by the Loviets as 42 klimacous.)
- Torkshop, lockso meters, with your Jurnices and severil cills there in admoral rock was skin; ground; follow fix elvited the rock was "creelith", so be Jurther processed in the "korpuse".
- 23 20 10 10 20.
- int "Korpuse" each 1 (CMSU meters, Mach "Korpuse" as divided by a possee, on each side of which are 9 or 10 aluminum furneess. In each shop are about 35 to 41 of whose furneess. The eight halfs have a total of 268 to 324 furneess. Anch furnees is 5 meters for and 2 meters in dienever and extends 2 meters above the floor and down into the beserent. The furneess have pipe lines.
- The aluminum foundries each LOD maters scuere who solved aluminum was houled to the standard from the Facebusser in specifical containers on small costs. It was liquided egain in heating furnaces and each to ingots.
- brichop, 60x40 meters, with two kilds in which a very sportling minoral was selted. Before indicates this process the minoral was adjusted. Lecording to joviets on adjustment of the moduction of clumbus and processed.

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Some Edition (1. *Conferct/Us Cardon (1. S/ panex

NN

F Power Plant

- l Two boilers and turbine houses, each 150x70 meters each house having three smokestacks
- 2 coal unloading hall, 140x20 meters, with two railroad tracks, parking area for 20 railroad cars, each 60 ton expacity; grabs and conveyor belts to transport the coal to building No 3
- 38 Cool Grinding plant, 30x20 meters
 - 4 Coal unloading hell, 140x7 meters with one mailroad track, other equipment like No 2
 - 0 pump station
 - 6 Sever I pipe lines, each I meter in diameter
 - 7 Iargo coal storage
 - 8 year 100 meters long, 7 meters wide and 6 seters above the water level
 - 9 Jlag dump
- C Hovies and Theaver
- B Garago and Tarking Lot
- M Fotor Vehicle Repair Shop
- F Tiro pepartment
- G PM Camp No 7314/8.

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REMARKS	
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SOURCE

1. Location

The iron rolling mill of ALAPAEVSK (61042'E/57051'N), Sverd-lovsk Oblast, is at the southeast town border, on the west bank of the Neyva River, about 900 feet west of a railroad bridge. For location see Annex 1.

2. Flant Installations

The plant covers an area of about 0.9x0.75 miles and is surrounded by river meadows. It was learned from Soviets that the plant is about 15 years old. During the war the plant produced tank parts and in 1946 or 1947 was converted to peacetime production and the enlargements started. The bare structures of four new buildings were completed by July 1948. For plant layout see Annex 2.

5. "ork Force

Three to four thousand Soviets and 300 F's including 50 Japanese, working three shifts,

4. Production

During the war, tank parts; present production, metal sheets of various sizes and thickness, spades and shovels. Armor plates were not observed.

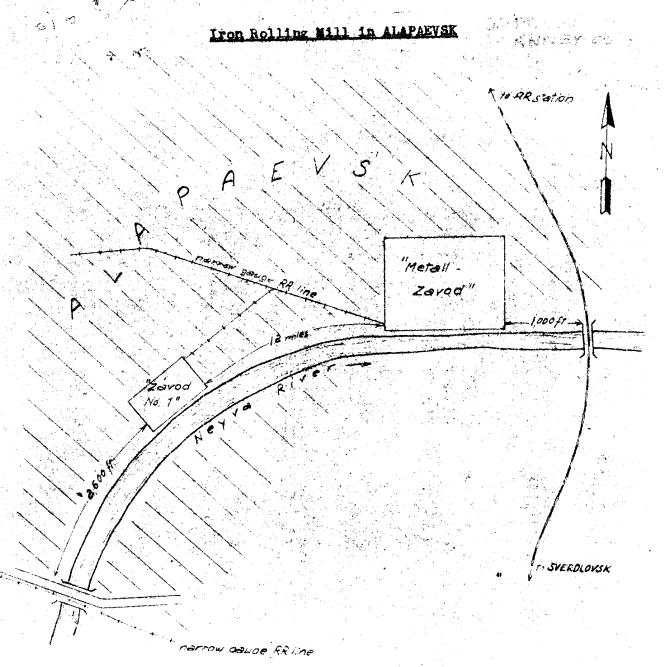
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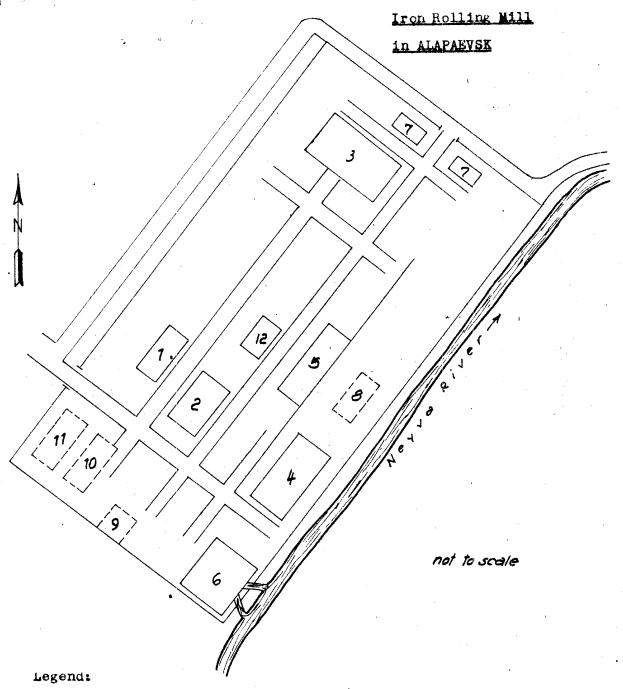
omment:

a. This plant was reported in two previous reports*. The following location can be assumed: On the north bank of the Neyva River, about 900 feet west of the large railroad bridge of the railroad line to SVERDLOVSK (also see a previous report** and the sketch to a report on the machine tool factory ***)

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- b. Amex 2 furnishes a rather diagramatical picture of the plant covering only the essential departments. The location of the open-hearth plant, the rolling mill and the power plant was likewise recorded by a previous report**. The reported location of the blast furnace is at variance with previous information.
- c. As the plant was still being enlarged, new information is needed to give a factual picture of the plant.
- 2 Annexes: 1. | Iron mill in ALAPAEVSK





- 1 Repair department, two-story stone structure, 90x60 feet
 2 Blast furnace, solid structure, 150x90 feet. The ore is
 shipped from the nearby mines via a narrow-gauge railroad

- shipped from the nearby mines via a narrow-gauge rails
 Two open-hearth furnaces
 Rolling mill and forge, steel structure, 600x150 feet
 Hardening shop, stone structure, 450x60 feet
 Power plant, stone structure, 360x300 feet
 Two administration buildings with drawing offices
 through 11 Buildings under construction
 Storage of tools and materials

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2 SOURCE

1. Location:

Zavod No 1 is on the southern edge of ALAPAEVSK (61°42° E/57°51° N), Sverdlovsk Oblast, on the northwest bank of the Negva River, and about one mile from the towncenter.

Plant Installations:

The plant covers an area of about 1,200x750 feet. Except in the southeast, it is bounded by workmen's settlements. From the pit in the vicinity of town the ore is shipped to the plant on a narrow-gauge railroad. For plant layout see Annex.

3. Mork Force:

Three shifts with eight hundred Soviets, 40 percent of whom were women, and an additional 400 PMs. Half of the PMs were skilled laborers, the others were construction workers.

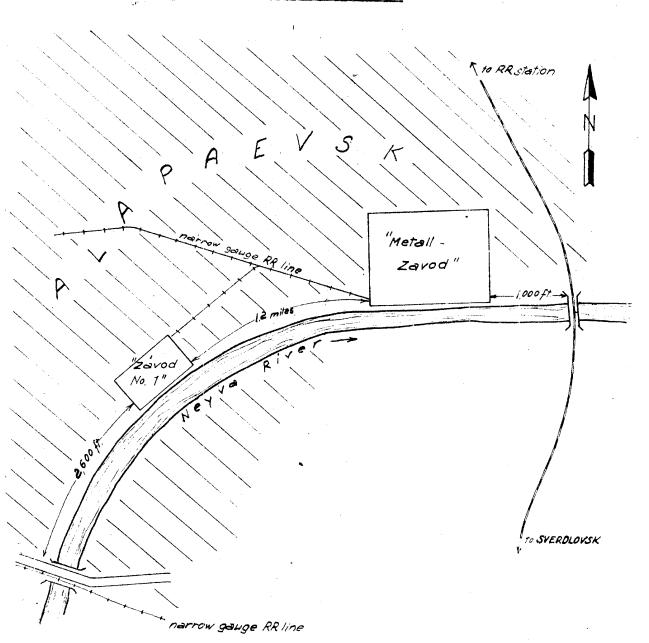
4. Production:

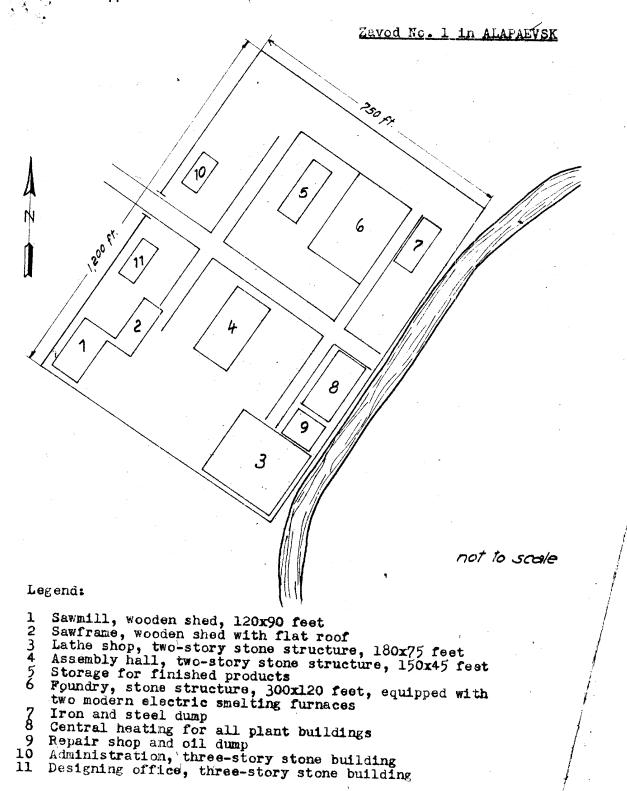
Brick moulding machines, stone crushers, concrete mixers, saw frames, and field lorries.

Field Comment:

- a. The location of Lavod No 1 was also entered on a sketch supplied by another source on the machine tool plant south of the Neyva River. +
- The attached plant layout needs confirmation by additional reports.
- 2 Annexes: (1) & (2) Zavod No 1 in ALAPAEVSK

Zavod No. 1 in ALAPAEVSK





		2002/01/17 CIA-RDP83-00415R010900080009-3	
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SOURCE

1. Location:

The Novi-Mech-Zavod Machine Factory, about 3,000 feet south-west of ASBEST (61°30° E/57°00° N), Sverdlovsk Oblast, is surrounded by woods on all sides except the east. An adjacent and fenced-off section to the north was cleared in 1949, presumably for building purposes.

2. Plant Installations:

8. The plant was officially designated Novi-Mech-Zavod by the Soviets in 1947. The PJs and other workers always called it "locomotive factory" though no locomotives were manufactured there.

b. Construction work started in 1944 and the work was speeded by employing PVs. Production in the large workshop was started in 1947 and in the other departments in 1948. There is a spur track. For plant layout see Annex.

3. Nork Force:

About 2,000 PWs up to the completion of the construction work (1948) and only some specialists since 1948. The number of Soviet workers could not be estimated.

4. Production:

Spare parts for machines of the ASBEST factory and for motor vehicles, as well as sheet metal troughs for dump trucks.

25X1A Comment:

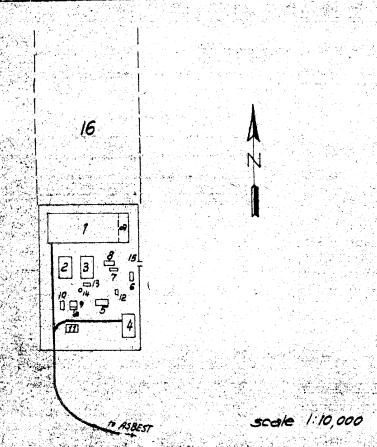
a. The data reported on the location of the Novi-Mech-Zavod Plant agree with a sketch on ASBEST previously supplied by another source. +

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- b, According to previous reports, a large locomotive factory has allegedly been under construction in ASDEST since the end of the war. The recorded designation as used by Soviet workers makes it possible that this locomotive factory is the Novi-Mech-Zavod Plant. The original production of locomotives has possibly not been resumed.
- c. The attached shetch requires confirmation.

_ \F.=

A Annex: ASBEST Hovi-Hech-Zavod Hachine Factory.



1 Concrete machine house, 230x950x2,450 feet, with wooden roof la Offices and drawing room
2 Forge and boiler forge, 400x660 feet.
2 Drawing room in northern section of workshop

Foundry, 400x660 feet Locomotive department, 400x660 feet, under construction

and without roof Boilerhouse, 200x330 feet, with 300-foot smokestack and

5 Boilerhouse, 200x330 feet, with 300-foot smokestack and a boiler from besement to roof 6 and 7 Two garages, 100x250 feet 8 Warehouse, 150x300 feet 9 Workshop, 200x250 feet, utilization unknown 9a Solid building with concrete roof housing a model carpentry 10 Three-story building with oxygen installation, 100x250 feet 11 Wachine house, 250x330 feet 12 Transformer station for seven or eight transformers, still under construction 13 Transformer station with three or four transformers 14 Water tower, a failure in construction, was to be torn down (Soviet statement) 15 Wain entrance

Main entrance

Adjacent building site

COUNTRY SOUTH	Approved For Release 2002/01/17: CIA-RDP83-00415R010900080009-3 t union REPORT NO. t angine Plant No. 500 in 20004-70005N0	
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DATE OBTAINED	DATE PREPARED 30 November 1949	Mind decembrane (6) relicte (5) (5) 2
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PAGES 3	ENCLOSURES (NO. & TYPE)	

1. Location:

MOSJON-TUSH NO (37°26%,55°50 M). The plant was bound on the north by the Shodnya Canal. And a roal bridge crossed the canal near the northwest corner. A hydro power station was located about 500 feet west of the northwest corner of the plant.

- 2. Munerica designation of plant: No.500 (according to
- 3. Size: about 2,600 x 1,650 feet (rough estimate).
- 4. dailred connection: vingle-tracked siding.
- 5. Buildnes: Brick structures. The workshops were covered with class roofing, the administrative buildings with sheaf metal roofs. No new constructions.
- 6. dor force:
 - a. Letimate according to fellow-Pas: A total of ten tousand working three eight-hour shifts.
 - . Percentage of women: 30 per cent.
 - . 4ge: Half of the personnel were 20 to 30 years old.
 - i. The workers were housed in the factory-owned settlements east of the plant and in the town of $10300\,\text{M}_{\odot}$

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e. German experts: About 70 to 30 German engineers and their families arrived in December 1947/January 1948. Course learned from a conversation with one of these engineers that they had come from the Junkers Plant in December 1948. Inother engineer stated, in September 1948, that they were to soon move to OMSK.

7. Production:

- that the engines were taken from the test stand to a hall end packed in boxes. The suppling box was about 13 x 6 x 7 feet.
 The shipping boxes did not occur regularly, bometimes one box was loaded in the morning and two boxes in the afternoon and then only after half or a whole cay's interval 2 new shipment was due.
- h. dusty engines were stored at a scrap dump.
- c. Tout stands were in operation day and night.
- could engthing be learned about it. From the fact that metal borings (steel, copper and brass borings) were collected in the plant area and barnt by PWs and that electro smelting furnices were installed and small gear wheels made at the plant, source inferred that all engine parts were produced in the plant.
- e. By-products such as milk cans and cooking-pots of aluminium were produced in a workshop near the northwest corner of the factory.
- "duge" quantities of scrap consisting of engines, fuselages and other aircraft parts were stored over all the plant area.
- An estimated 30 to 100 piles of alamnium bars of 20 to 30 bars each were distributed throughout the factory area.
- 10. A coal train of 13 to 20 cars (60 tons each) for the bollorhouse arrived every three or four days.
- 11. Security measures: high board fence with catchtowers at the corners; by day, patrols outside and inside the factory; armed civilian guards.
- lz. To air defense optipaent or AAA emplacements.
- 13. Mactory-owned vehicles were not at the disposal of the plant.

Johnson t:

1. The factory designated as Alteraft Engine Plant Re.500 is, no doubt, identical with the former engine Plant Ro. 32 north of FUCHINO airfield. This plant was also designated as Flant Lo. 500 an former reports by repatriated Plas. * As plant number 32 became vacant after this factory had been transferred to the Kazan

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aircraft engine plant in the Fall of 1941, it is possible that a new plant number, i.e. No. 500, was assigned to the plant which was established on the premises of the former factory.

- 2. Before the plant was evacuated its work force numbered about five thousand workers. The number was indicated at about three thousand for the period between 1945 and the beginning of 1948. The reported number of ten thousand, therefore, appears greatly overestimated.
- 3. Plant No. 500 is the development and production plant for Diesel engines. The Diesel section of the Junkers plants, headed by GERMACH was transferred to this place. There, becides other projects, the development of the Juno-224/26 plant is being done. Lost of the former reports covering the same period of observation stated that 12-cylinder in-line engines, liquid-cooled, were produced. Only in one report mention was made of 14-cylinder radial engines. However, as the reported dimensions of the transport boxes for the 12-cylinder in-line engines were greatly exceeded by those stated for the radial engines it can be assumed that though the dimensions appear overestimated the engine in question may actually be a heavy type radial engine. A box 13 feet long appears rather high even for a jet plant furnished with complete mounting jig.

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SOURCE		
1.	Location:	
	The power plant of ARTEMOVSKI (61°55' E/57°21' N), Sverdlovsk Orlast, is located about 2½ miles soutl@ast of YEGORSHINA, immediately north of a small river. This river is dammed to form a small lake southwest of the power plant.	n
2.	Plant Installations:	

The plant existed during Jorld Jar I and had been enlarged by several annexes. In May 1948, the middle section was torn down as much as required for the projected installation of two new turbines. It was later reconstructed. Bimultaneously, the coal conveyer installation from the unloading station to the power plant was renewed. As scheduled, the alterations of the middle section were completed by the beginning of September 1948. All other plant parts continued operation during the time of construction. Soviets stated that the capacity was to be increased by more than 100 percent by the installation of two new turbines. A railroad connection is available. The coal was shipped to the conveyor belts underground, and from there to the boilers.

3. Work Force:

Fifty percent were women, no details available on the total number,

4. Capacity:

No details available.

For location see Annex 1

For plant layout see Annex 2

For side view, as seen from the south, see Annex 3

For ground plan and elevation sketch of the new turbine hall see
Annex 4.

25X1A Comment:

a. The attached, very illustrative, sketches furnish new information on the power plant in ARTHMOVSKI.

RR

b. The reported location is the same as in previous infor. ation.

4 Annexes: Pover Plant in ARTHIOVOKI Hear YESCHOHILA, Sverdlovsk Oblast.

Legend to Annex 2

New turbine hall

Bridge across the ditch, 12 feet wide and 15 feet deep Unloading station for coal

- Transport installation for coal, emerging 6 feet above ground with under round connection to the old boilerhouse Conveyer. 3 feet side runs as deep as the coal transport
- inctall lin (No 4) (Objects To 5 and No 7 were not yet in operation).
- Chal conveyer install tion, underground connection with No 3
- 7. Conveyer belt, 3 feet mile, running to the roof of the new boiler house

Laching house of the egal transport installations

Euil ing with unknown purpose, two ruoms separated by wall. Room 9a was provided with a ganguay, 9 feet high passing several iron boxes about 25 feet high and 12 feet wide. Januar was blowing out of these boxes, which were installed at some intervals.

Low boilerhouse

Classt park of the power plant, several floors, comprising the old boilerhouse, the 1d turbines, and the administration; five snokestacle, 25 feet high, intervalson top of this building.

Fotal dimensions of the main building: 550 feet long, the widest part was 250 feet vide, and the highest part 90 feet high.

Legend to annex 4

(Ground plan and elevation sketch of the new turbine hall).

- Buses for two new turbines buse which rearing of puter could be heard
- Solid wall, 20 feet high and 6 feet wide

Outer wall

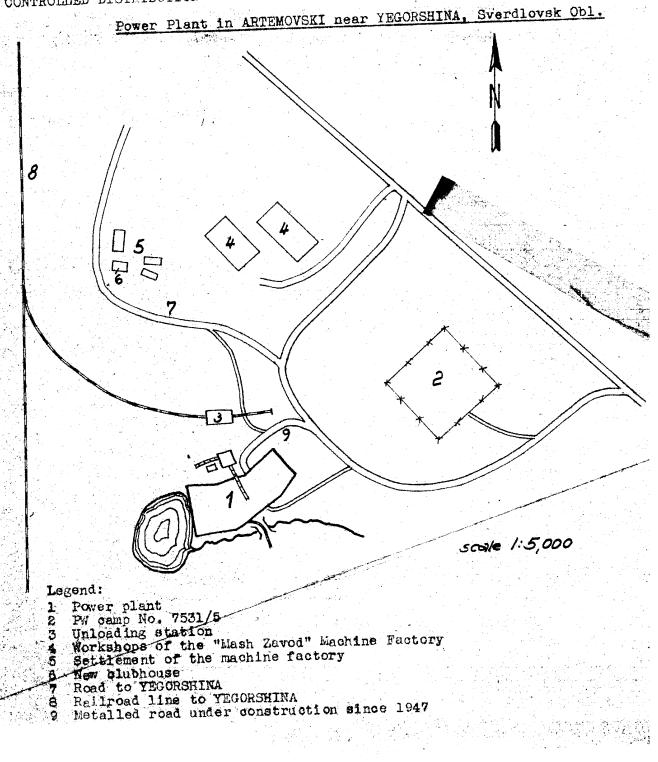
Bridge across a ditch dround level outside of the power plant, 25 feet above the floor of the turbinehall. Two openings in the wall, 6x9 feet deep.

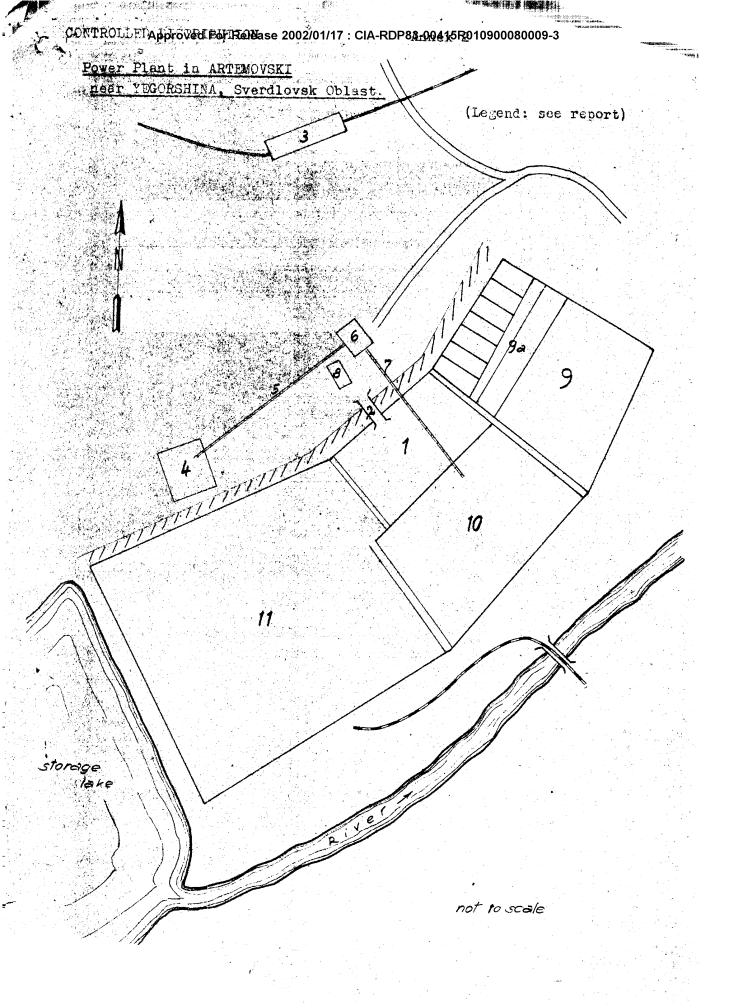
Passages for pipe into the adjacent building Passages for pipes into the new boiler-house

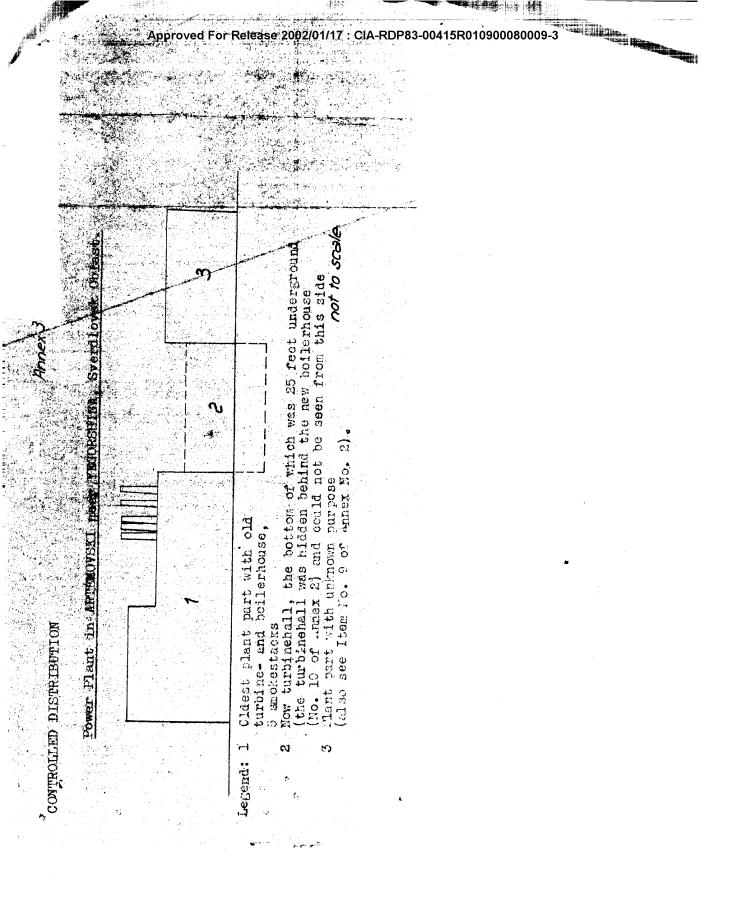
10. Ditches, about 3 feet deep and 2 feet wide 11. Conical ditches, 2 feet deep and 12 feet side at the surface.

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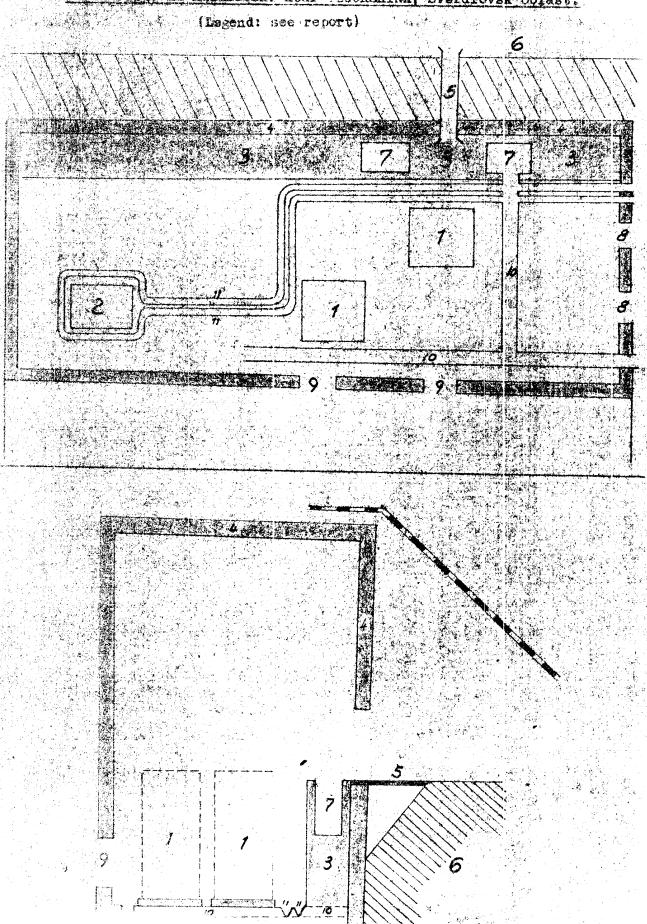






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1	ADMINISTRATION OF THE PROPERTY
	The power plant of ARTEMOVSKI (61°55' E/57°21' N), Sverdlovsk Chlast, is located about 2½ miles south at of YEGORSHINA, immediately north of a small river. This river is dammed to form a small lake southwest of the power plant.
	butter but of of one power prairie
2.	Plant Installations:
2.	Plant Installations: The plant existed during World War I and had been enlarged by several annexes. In May 1948, the middle section was torn down as much as required for the projected installation of two new turbines. It was later reconstructed. Simultaneously, the coal conveyer installation from the unloading station to the power
2.	Plant Installations: The plant existed during World War I and had been enlarged by several annexes. In May 1948, the middle section was torn down as much as required for the projected installation of two new turbines. It was later reconstructed. Simultaneously, the coal
2.	Plant Installations: The plant existed during World War I and had been enlarged by several annexes. In May 1948, the middle section was torn down as much as required for the projected installation of two new turbines. It was later reconstructed. Dimultaneously, the coal conveyer installation from the unloading station to the power plant was renewed. As scheduled, the alterations of the middle section were completed by the beginning of September 1948. All other plant parts continued operation during the time of construction. Soviets stated that the capacity was to be increased by more than 100 percent by the installation of two new turbines. A railroad connection is available. The coal was shipped to the

4. Capacity:

25X1A

No details available.

For location see Annex 1
For plant layout see Annex 2
For side view, as seen from the south, see Annex 3
For ground plan and elevation sketch of the new turbine hall see
Annex 4.

Comment:

a. The attached, very illustrative, sketches furnish new information on the power plant in ARTHMOVSKI.

RR

- The reported location is the same as in previous information.
- 4 Annexes: Power Plant in ARTENOVOKI Hear YEGOROHINA. Sverdlovsk Oblast.

Legend to Annex 2

م المحالي

- 1. Now turbine hall
- Bridge across the ditch, 12 feet wide and 15 feet deep

- Unloading station for coal fransport installation for coal, emerging 6 feet above ground with underground connection to the old boilerhouse Conveyer, 3 feet whice runs as deep as the coal transport for the
- installation (No 4) (Objects No 5 and No 7 were not yet in bperation).
- Clai conveyer install tion, underground connection with
- Conveyer belt, 3 feet mile, running to the roof of the new boiler house

Machine house of the coal transport installations

Euil ing with unknown purpose, two rooms separated by wall. Room 9a was provided with a ganguay, 9 feet high and 12 feet wide. Band dir was blowing out of these boxes, which were installed at some intervals.

New boilerhouse

Claest park of the power plant, several floors, comprising the old boilerhouse, the old turbines, and the administration; five smokestacle, 25 feet high, imtervalson top of this building.

Total dimensions of the main building: 550 feet long, the widest part was 250 feet vide, and the highest part 90 feet high.

Legend to annex 4

(Ground plan and elevation sketch of the new turbine hall).

- Buses for two new turbinos
- Base with iron lid from under which rearing of water could be heard
- Volid wall, 20 feet high and 6 feet wide

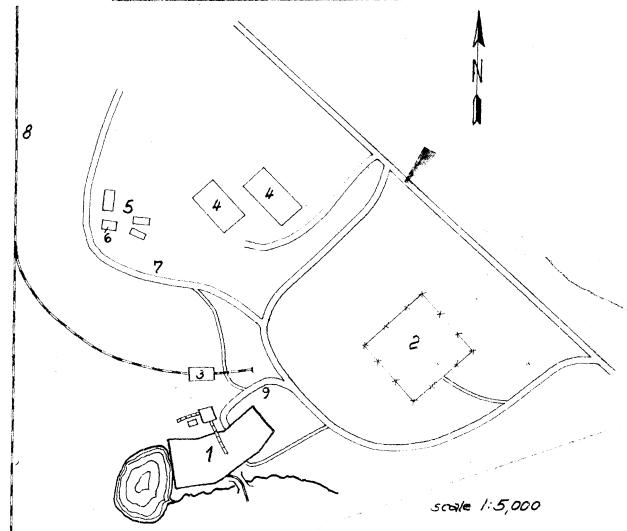
Outer wall

- Bridge across a ditch
- Jeound level outside of the power plant, 25 feet above the floor of the turbinehall.
- Two openings in the wall, 6x9 feet deep.
 Passages for pipe into the adjacent building
 Passages for pipes into the new boiler-house
- 10. Ditches, about 3 feet deep and 2 feet wide 11. Conical ditches, 2 feet deep and 13 feet die it the surface.

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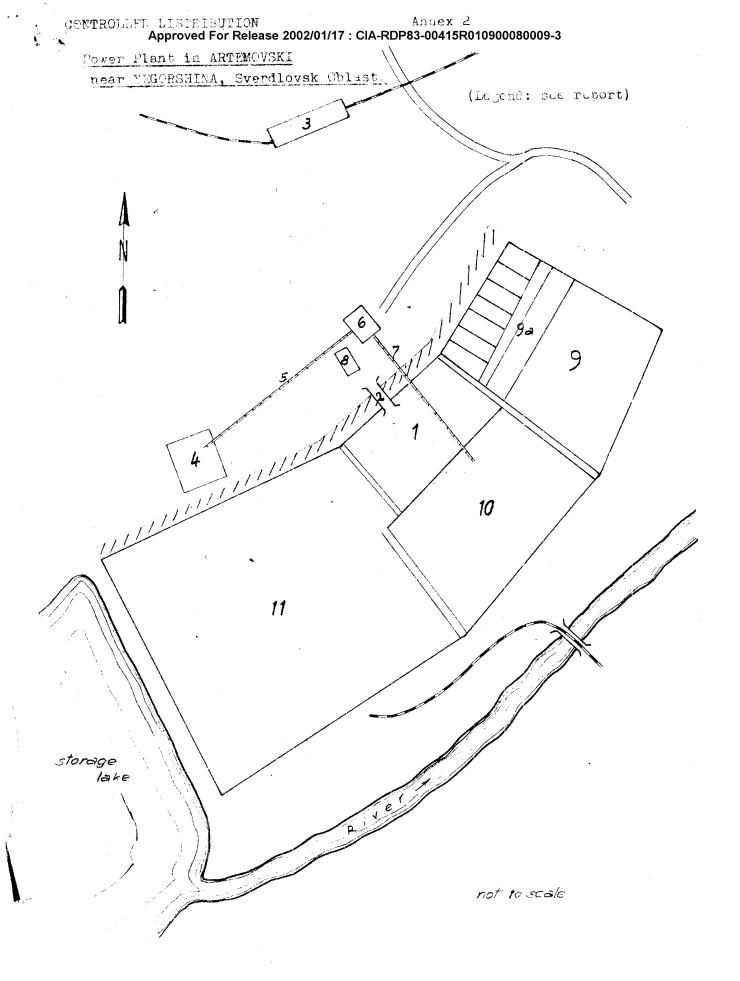
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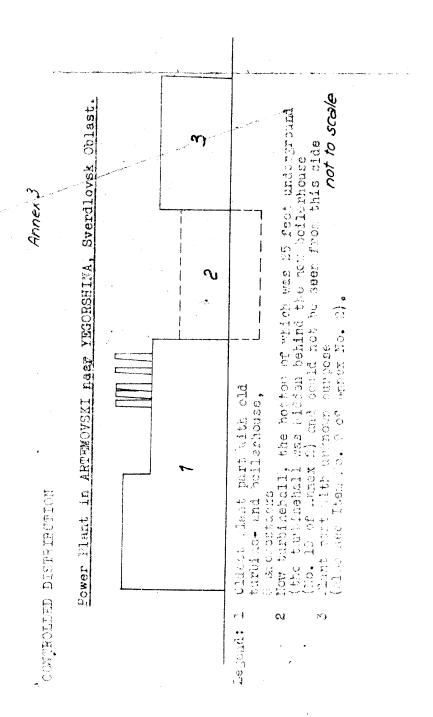
Power Plant in ARTEMOVSKI near YEGORSHINA, Sverdlovsk Obl.



Legend:

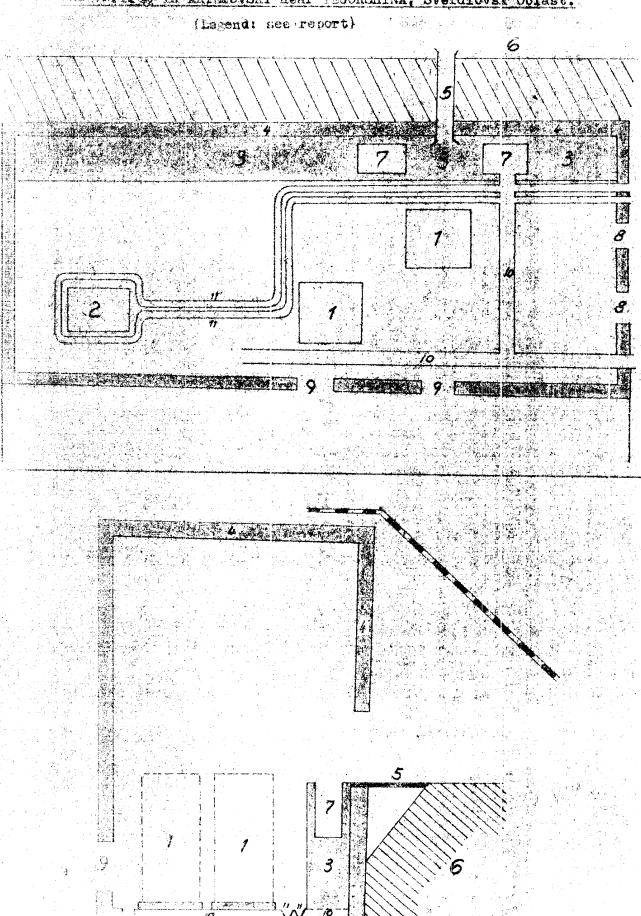
- l Power plant
- By camb No. 7531/5
- Unloading station
 Workshops of the "Mash Zavod" Machine Factory
 Settlement of the machine factory
- 6 New blubhouse
- Road to YEGORSHINA
- Railroad line to YEGORSHIWA
- 9 Metalled road under construction since 1947





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Please in ARTYMOVSKI near YEGURSHINA, Sverdlovsk Object.



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- 1. Location: Jest of Turinski (60°12°E/59°46°N), Sverdlovsk Oblast, northwest of the railroad station, and northeast of a reservoir. For location, see Annex 1.
- Plant installations: The plant covers an area of about 1.350x720 meters. Lource learned from Volga Germans that constPation of the plant started in 1942. The new town of Sosgorod-Turinsk, the railroad bridge and the reservoir have been built since 1945. The "5 Deries" plant to the east was also constructed during this period. The installations were still being enlarged during the time of observation. The steel frame of the new battery is the same size as the old installation. It was planned to double production with the operation of the new plant installations, some of which were under construction and some finished. Power is supplied by the plant-owned power plant, which covers a large part of the old plant area. There is a railroad connection, for plant layout, see annex 2.
- 3. Jork force: Lource did not know the number of workers, which included 12,000 convicts from four large labor camps.
- 4. Production: .luminum ingot molds of three types

25X1A

Comment:

- a. The location sketch is of value, and can be important in locating the aluminum industry installations in the Turinsk area. Pinpointang is impossible because of the lack of suitable maps (scale 1:100,000 and 1:50,000).
- b. According to the above and two provious reports, a rather new aluminum plant is just at the northwestern edge of lurinsk. This is believed to be correct, location of the newest part of the plant, called "5 Series" by all

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sources, also seems to be correct/indicated as east or northeast of this plant. It is certain, that the two parts of the plant are separated by the Turinsk-Larpinsk railroad line. No clarification could be obtained on the location of the oldest part of the plant. Construction of this dection was started in 1939. According to older records, it is located at some distance from Yurinsk, in the direction of Logoslovsk.

A factual picture, as to whether there are several aluminum plants in the Turknsk area and whether even the wartime records are incorrect, cannot be half without man material.

c. The sketches of the aluminum plant at the northwestern edge of Turinsk are very much at variance, although they correspond in certain details. additional information is required for a clear picture.

2 annexes: 2 Llueprints, aluminum . lant in Turiaski

Legend of Annex 2:

- a aluminum plant
 - 1 board fence
 - 2 Juall fitting shop
 - 3 Four wooden cooling towers
 - 4 Inlargement of the turline house, with seven foundations for turbines in staggered position
 - 5 Generator station in operation
 - 6 holler house with attached parallel house and two smokestacks, railroad connection and slanting coal dumps. 20 railroad cars could be unloaded simultaneously
 - 7 Aitchen and messhall
 - S Stdarage shed with aluminum in ot molds
 - 9 Large building belonging to the power plant, presumably boiler house
 - 10 small fitting show, carmenter shop and storage of electrodes

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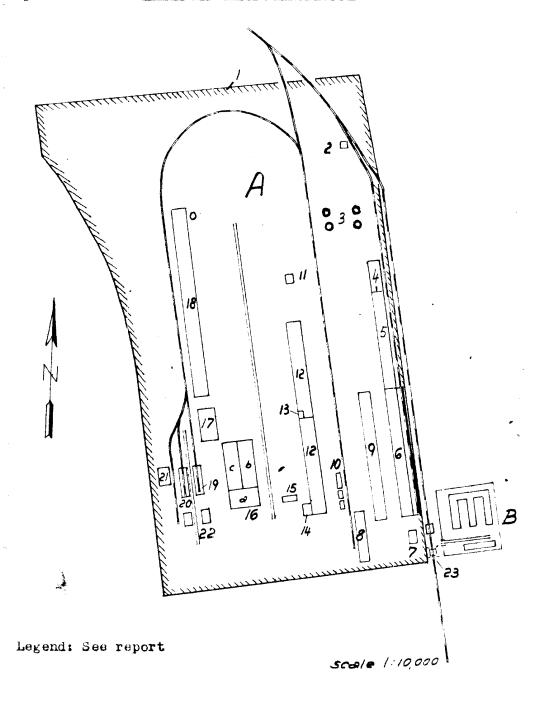
- 13 - Annex

SS

- 11 Small fitting shop
- 12 Jurnace batteries in operation, separated into two sections by a wall and the office. Tach section with two traveling cranes, each erone operates two lines of furnaces. The building is a steel structure with trick lining, the walls and roof are widely glassed, dimensions 540x45 maters
- 13 Office
- 14 Lew office building with showers
- 15 New administration
- 16 workshop, 180x90 meters
 - a Forge
 - b Lochanical department
 - c foundry with two furnaces, working for plant requirements
- 17 Shbrage with molds and all types of tools
- 18 New electrolysis department under construction, same size as 10. 12, steel frame and smokestack completed. Construction of furnaces started. The scheduled date for the completion is knowember 1949; presumably this date will not be mat.
- 19 Loda stores
- 20 Lauxite denot
- 21 Machine shop, black walls, further details are not available
- 22 Two so-called washing plants each with one drum of 9 meters diameter
- 23 Eridge for the pipes leading from the power plant to "5, peries" Plant across the railroad tracks board
- E "S. Deries" lant, about 180 meters square, with/fence, has said to be very secrete . O towers were located at each corner of the plant. Dource never heard any noises nor learned anything about the production. No smokestacks were seen. Dource observed from the higher located railroad station three side wings and the upper story of the front wing in the north. The meshape of the building entered on sketch was his assumption. The buildings are white concrete structures with windows of milk glass.

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Aluminum Flant in Surinski



TOPIC ASBEST Asbestos Plant No III		25X1
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		25X

SOURCE

1. Location:

Asbestos Plant No III is northeast of ASBEST (61°30°L/57°00°N), Sverdlovsk Oblast, east of the southern section of the large asbestos pit. Asbestos Plant No II is farther to the north. The P. camp is between the plants. (See attached layout sketch).

2. Plant installations:

The asbestos pit and the perpaining factory buildings are obsolescent. The main pit was being considerably expended during the period of observation. The mailroad sidings and installations are, according to source, relatively new. (For plant layout see Annex.) There are railroad facilities.

3. Nork force:

Three hundred Dovicts and 150 PMs in each of the three shifts.

4. Production:

Asbestos, loose and packed in sacks; twelve to fourteen 60-ten railroad cars per day.

25X1A

Comment:

- a. This is the first detailed information on the ASEEST Asbestos Plant Ro III. The statements on the location agree with a previous report on the ASEEST industrial installations except for the location of the Red October Plant (see sketch 1). As source also worked in the large asbestos pit, the reported location of the plant immediately beside the pit is considered correct.
- b. The data on the plant and its installation require confirmation.
- 1 Agnex: ASBEST Asbestos Plant No III.

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Legend to Annex, Sketch No 1

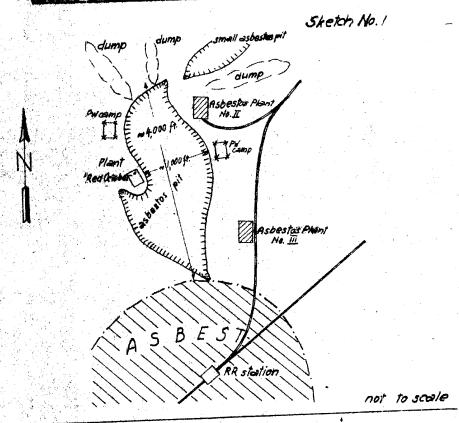
Location of plants and asbestos fit.

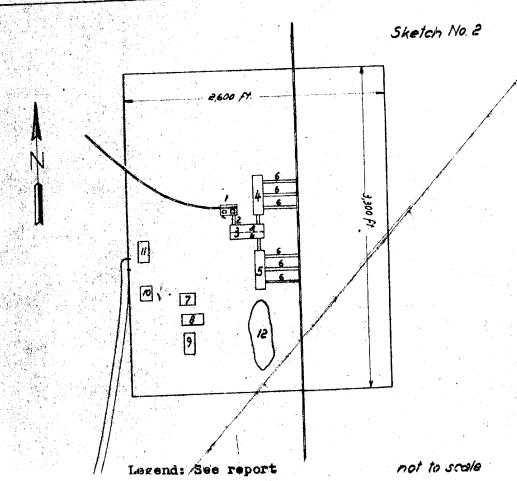
Legend to Annex, Sketch No 2

Layout of Asbestos Plant No III

- 1 Grusher, 75 x 90 x 150 feet, where the damp cars arriving on a 35-foot high track are automatically tipped and their loades crushed.
- 2 Conveyor system, 60 feet long and covered with wood.
- 3 Workshop with two sections (a,b). Both sections can work separately. A 500-horse power AEG engine is in the cellar.
- 4 Pulverization department, 75 x 90 x 360 feet.
- 5 Storehouse, 75 x 90 x 360 feet
- 6 Conveyor balts for the loading of asbestos (loose asbestos coming from the pulverization department or assestos packed in sacks coming from the storehouse.)
- 7 Forge
- 8 Fitting shop .
- 9 Telding shop, wooden structure
- 10 Administration and kitchen
- 11 Administration building
- 12 Rubbish dump

ASBEST Asbestos Plant No. III





COUNTRY	· · · · · · · · · · · · · · · · · · ·	01/17 : CIA-RDP83-00415R010900080009-3 REPORT NO.	
TOPIC	Khimm sh achinery Pla	ant in verdlovsk	in this control of the control of th
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Maring rate and particular design control and particular control and particular design control a	HETURN TO GIA		25X1X
The service of the secret representation to the secret representation of t	1. 134.	A Signal Control of the	
SOURCE			

1. Location:

The Khimmash Lachinery Plant is about 13 km SSE of Sverdlovsk (60°40°E/56°50°N), Sverdlovsk Oblast, south of the southern edge of a lake.

2. Plant installations:

The plant is an old installation. German PWs erected two additional large work halls. The of these halls was completed in January 1949, but only the foundation for the second hall was laid at the end of the time of observation. A railroad connection is available. For plant layout see Annex.

3. Jork force:

Three shifts of several thousand workers.

4. Production:

Source observed the production of pumps, crankshafts and cog-wheels.

25X1A

Comment:

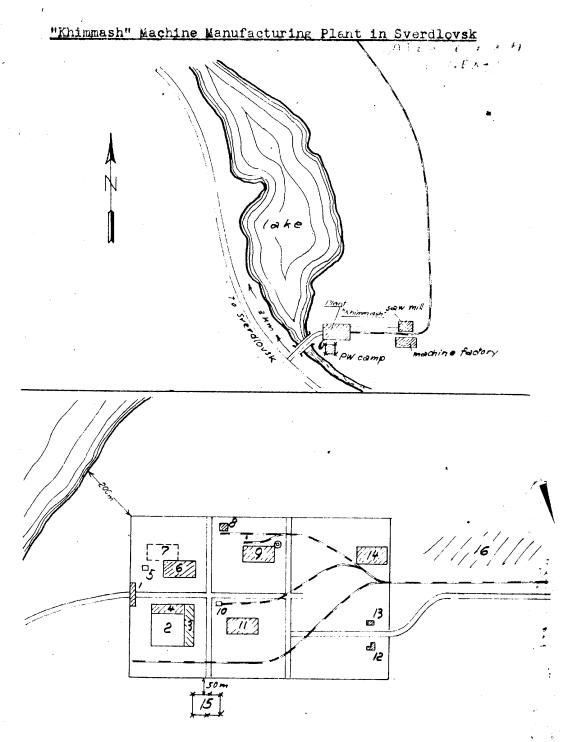
- a. The Khimmash lant was reported several times before*.
- b. The accurate sketch on the location of the plant makes this report especially valueble. The saw mill east of the plant was previously reported but the machine plant to the south is mentioned for the first time.
- c. Harlier proofs listed a larger number of plant buildings which are not shown on the schematic sketch furnished by source. The reported location of the most essential plant buildings within the plant area appears to be correct. The dimensions given for the plant area do not correspond with the figures listed in CLASSIFICATION COLLIGIBITIAL/COULT.OL/US OFFICIALS OLY

UD

- previous reports according to which the plant area is considerably larger.
- d. The information furnished with previous reports is not sufficient to clarify the details regarding the exact plant layout, the size and type of construction of the individual work halls.
 - 1 Amnex: Aluevrint, "Khiwmash" Machine Manufacturing Flont in Sverdlovsk
 - * (Air) _UL-2269

Legend of Annex;

- l Intrance and administration building, 70 x 15 x 15 meters
- 2 New construction, purpose not known, 100 x 100 x 15 meters
- 3 Work hall, 130 x 30 x 15 meters, llant department No. 3
- 4 Lathe shop, 100 x 30 x 15 meters, Plant department Ho. 2
- 5 Mitchen
- 6 Plant department No. 1, 100 x 50 x 15 meters
- 7 excavation for a new building, 100 x 50 meters
- 8 New boiler house, 30 x 20 x 18 meters
- Plant department No. 6, forge, 100 x 50 x 15 meters, smokestack
- 0 Old boiler house, 15 x 8 x 7 meters, with six vertically installed boolers
- 11 Plant department No. 5, foundry, 100 x 50 x 18 meters
- 12 Plant department Lo. 22, I-shaped twilding, each wing 20 meters long, storage shed
- 13 Plant department No. 21, 20 x 8 meters
- 14 Flant department Lo.20, carpenter shop, 100 x 50 x 15 meters
- 15 P./ Camp Lo. 7314/4
- 16 Coal storage
- Note: Plant departments 1,5,6 and 20 are steen structures with masonry and flat roofs with sky lights.



Legend: See report

not to scale

CLASSIFICATION SECRET—COUPROI/US OFFICE V.S. OMLY COUNTRY Soviet Union Secretary Country Soviet Union Report No.	
TOPIC Aircraft Engine Plant No. 19 in NOTOTOV	25X1A
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SOURCE	
1. Location: See reference reports	
000 1010201100 10101 013 8	
2. Tork force: Twenty-two thousand, according to Soviets.	
3. Flant installation: About 30 buildings.	
4. Production: Double radial engines, slightly more than threfeet in diameter, were occasionally seen.	3 0

25X1A

Comment:

- a. The production of double radial engines (Shvetsov model) in Aircraft Enginer Flant No. 19 has been confirmed.
- b. A work force of 22,000 men is considered too great. Source learned this figure from hearsay.

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And the second s	CLASSIFICATION GEORGY-COMPROL/HS OFFICEALS ONLY	H
COUNTRY	Approved For Release 2002/01/17: CIA-RDP83-00415R010900080009-3	25X1A
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5X1X SOURC		
1.	Two other reports do not furnish any new information on the air armament plants in MOLOTOV	
2.	war-time production of the FOLOTOV plants	25X1X
	a. Since A.D. SWETSOV is reported to be chief designer of Plant To. 19, the N-30 engine may also be built there as well as the N-82 engine. This assumption would explain the remark that the observed engines were bigger than the BMT-Hornet engine installed in the Ju-52. Thether the N-90 installed in the Tu-70 is a Soviet construction or only a copy of the R-3350 power plant cannot be determined.	
3.	The production of airframe parts in the Aircraft accessories Plant No. 35 seems improbable. It is assumed that this plant continues to deliver individual engine parts to Aircraft Engine Plant No. 19. The aircraft assembly plant mentioned in another report seems to be a repair plant of limited capacity since no test flying was observed there.	
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	COUNTRY	Approxed For Release 2002/01/17 : CIA-RDP83-00415R010900080009-3	25 X1A
Accesses to the	TOPIC	Plant for the Processing of Petroleum Residues in Chkalov.	
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25	X1A EVALUATION_	OBTAINEL Germany	
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	SOURCE		
	_		
		<u>Location:</u> Plant N o. 39 for the utilization of petroleum residues is located about 1½ km ESE of Chkalov(55008'E/51046'N) Chkalov Oblast, north of the Ural river and a	
		railroad line running north of the river.	
	. 2	Plant installations: The plant, covering an area of about	
	, 3	12 x 13 km, can easily be recognized by an about 30-meter smokestack towering above all other installations.	
		There is a railroad connection. For plant layout see	
	3.	Work force: About 1,000 workers, 400 of whom were PWs and 400 women.	

Comment:

This is the first information received on this plant. Additional information is required to clarify the dimensions and the construction type of the plant buildings.

<u>Production:</u> Petroleum from oil residues, natural gas from sludge containing natural gas.

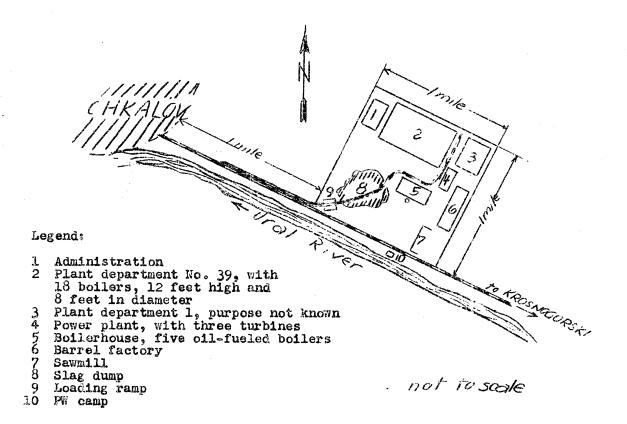
1 Annex: Plant for the Processing of Petroleum Residues in Chkalov.

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Annex

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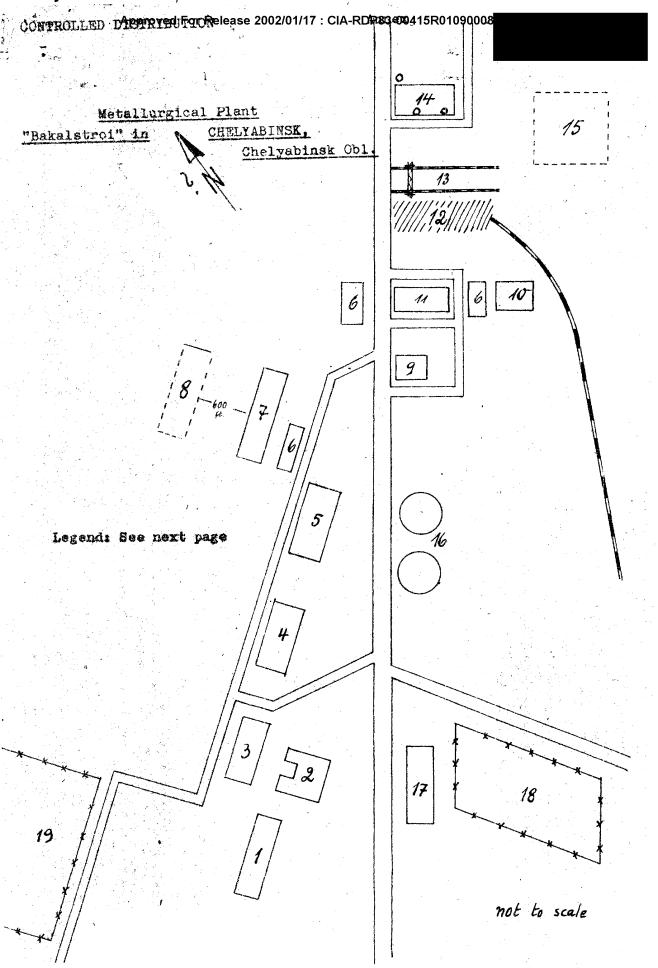
Plant for the Processing of Petroleum Residues in CHKALOV



County Soviet Union		
TOPIC "Pakalstroi" Metal.	lurgical Plant in CHELYABINSE	25X1
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	TIME TO CIA	Me have make "recording to the
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SOURCE 1. Location: The "Bak about 12 miles north	alstroi Metallungi od Direk	
2. Layout: The entire and will not be compaction is available	installation is currently being expanded pleted for several years. A railroad con-	
TOPIC "Pakalstroi" Metallurgical Plant in CHELYABINSE AMNEX YY DATE OF CONTENT DATE OF CONTENT DATE OF CONTENT DATE OF CONTENT DATE OF PREPARED 14 November 1949 REFERENCES. PAGES 1 ENCLOSURES (NO. & TYPE) 1 Blueprint REMARKS 1. Location: The "Bakalstroi" Metallurgical Plant is located about 12 miles north of CHELYABINSK (61°25'8/55010'N), Chelyabinsk Oblest. 2. Layout: The entire installation is currently being expanded and will not be completed for several years. A railroad connection is available. Electric current is supplied by a factory powr plant (see Annex). 3. Work force: Only Soviets worked in the production shops. Several detachments of convicts and PWs did construction work. Details on the strength of the work force were not available. 1.4 Comment: a. The report confirms the current expansion of the plant, whose location was previously reported. b. The attached sketch covers only the essential departments of this spread out plant. It is of value since it confirms the distribution of importent departments as stated in two previous reports. The layout of the plant reads as represented on attached sketch is at variance with available information, and the information on the factory spur tracks is very incomplete.		
whole focation was p	previously reported.	
distribution of imports. The layout ched sketch is at va	ortant departments as stated in two previous of the plant roads as represented on attariance with evalleble inference with evaluations.	
c. Nothing is mentiling mill between th	oned on the construction of a second rol- e PW camp and the old rolling mill (Annex,	

- ling mill between the PW camp and the old rolling mill (Annex, No 1) as reported by another source. It may be that this construction, allegedly begun in 1948, was not seen.
- d. It is doubtful whether the north direction is given correctly on the attached sketch. Further information is required for a clear picture of the actually available plant installations.
- 1 Annex: Metallurgical Plant "Bakalstroi" in CHELYABINSK.

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Rolling mill, 300x120 feet, the installation of German machinery was under way in April 1948

2 Engineer school, 150x180 feet. The school was also attended by women
3 Foundry, 300x120 feet
4 Workshop of undetermined purpose, with offices in the annex

Pattern department

- Administration building
- Open hearth plant, 300x120 feet, under construction
- Workshop same as 7, under construction

Power plant

10 Foundry

3

- 11 Two open hearth furnaces
- Iron ore dump, with eight railroad tracks on 45-foot embankments
- Traveling crane

- Coking plant Factory under construction, no details 1.5 available
- Two water tanks, 150 feet in diameter and 120 feet high, one of them under construction
- Cement plant
- Forced labor camp, formerly PW camp
- 19 PW camp

•		TTAL/CORTROL/US O. CIA-RDP83-00415R010900080009-3 REPORT_NO	-	
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SOURCE	and the second s		e i i i i i i i i i i i i i i i i i i i	THE PERSON STREET, STR
_	1. Location: North of the	road to Koneysk, south of Pla	ue t	_

- 1. Location: North of the road to Koneysk, south of Plant No. 78, southeast of Chelyabinsk (61°25'E/55°10'N), Chelyabinsk Oblast.
 For location see Annex.
- 2. Plant installations: The main building was a black structure with gable roof, 100x40 meters, and had eight high iron suckestacks and three large wooden cooling towers beside it. A railroad track entered the plant from the southeast.

25X1A

o ment:

- a. The "Chegres I" Power Flant is an important installation with a capacity of approximately 300,000 kws, and chiefly supplies power to the two plants in the north, "Rirov" and "Ordzkonikidze".
- t. The attriched sketch is the first received and shows, except for the route of the railroad line between power plant and railroad station, the correct location of important industrial installations in the eastern section of Chelyabinsk.
- c. No details are available on size, plant layout and type of construction of the power plant.
 - 1 Janex: 1 sketch on ditto, Power Plant in Chelyabinsk.

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CLASSIFICATION CLASSIFICATION Approved For Release 2002	73/2007-14/7007-14/01/71 5 2/01/17 : CIA-RDP83-00415R010900080009-3	
TOPIC Orsk Refinery	REPORT NO	25X1A
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		mandada Grandon (m. 1800 a. 18

SOURCE

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25X1X

- 1. The refinery is in the southeastern region of Orsk, Chkalov oblast, on a tributary of the Ural River. The plant covers an area of about 4 sq km and has many spur tracks.
- 2. The Orsk refinery was built shortly before the war, mainly by American engineers and oil experts. The installations were considerably increased during the war. In the Five-Year-Plan, the installations in operation were scheduled to be doubled. American engineers have allegedly been observed in the vicinity of the plant.
- 3. Towards the end of the period of observation, there were about eight large, silo-shaped furnaces with distilling and refining towers in the refinery. They were from 3 to 40 meters in height. The main oil pipe line from the various fields of the Emba district ends in the plant area. There is a large laboratory, a transformer station, a pump station and a large number of tank and boiler installations in the plant. Machinery and equipment from the Soviet Zone of Germany, obviously to be installed in the plant, were parked on sidings 4 km long in the vicinity of the plant.
- 4. About 20 tank cars of finished products, about 1,000 tons left the plant daily. The total work force in the refinery numbered about 1,800 working in two 12-hour shifts. *

25X1A

Comment. At the end of the war the Orsk refinery had about five large refining installations and 10 small cracking installations. The total daily capacity was about 4,500 tons. The daily processing capacity of the cracking installations was about 3,500 tons. Aviation fuel, motor gasoline, kerosene, tractor fuel and lubricating oil were produced. The total work force was indicated at 2,000 workmen, working in three shifts.

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1. Location;

The south yral Machine Factory in Orsk ($58^{\circ}35^{\circ}$ E/ $51^{\circ}13^{\circ}$ N) Chkalov Oblast is about $1\frac{1}{2}$ km west of the Ural River and west of the Old-Orsk borough and 180 meters south of the power plant.

2. Plant Layout

- Allendaria

According to other Pys who had worked at the plant for a long time, construction work was started in 1943. Ifter the completion of the steel structures for the workshops, the construction work was interrupted until the Spring of 1948. Construction then advanced quickly so that it may have been completed late in 1949.

- b. 4 railroad spur track is available, connecting the plant with the railroad station of the nearby nickel plant.
- $c_{\,\circ}$. Electricity is supplied by the power plant farther to the north.
- d. The plant area is about 350x300 meters. For Plant sketch see Annex.

a. york force

About 1,000 workers.

4. Production:

Railroad flatcars, roller frames, containers for an unknown purpose (maybe for coke-sorting).

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25X1A

comment:

- a. The plant was reported everal times. Data lacking before are furnished by source, aespecially on the construction types of the plant buildings.
- b. As to the location, source was wrong as the distance of the plant from the Ural Aiver is much greater. According to conforming previous reports, the data of which were confirmed by available maps, the plant is about 8 km west of the Ural River. To delineate the location, a correct location sketch of a previous report is attached (Annex 2).
- c. Except for the inaccurate location, the report is of value and represents the latest stage of construction at the plant.

With this report combined with previous ones, the above plant appears, as to the target location, sufficiently reconnoitered.

2 Annexes: Bouth Urals' Machine Pactory in Grsk.

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Legend to unnex 1

- l Entrance and guardhouse, 9x42x42 meters
- 2 plant pepartment 6, 120x27x25 meters, with flat roof, production of fittings and tin containers of unknown destination. Two paris of plate shears, one punching machine, 20 to 30 welding apparatures, 3 cranes up to 35-ton capacity.
- 3 yorkshop, 90x35x9 meters, with arched roof, consisting of
 - a. Plant pepartment 1, speed-lathe shop
 - b. Tool department with numerous machine tools
- 4 Plant pepertment 2, size as item 3, large-seale lathing and drilling shop for large units
- 5 plant pepartment 3, size as itom 3, axle-lathing shop and nanufacture of rolls.
- 6 Workshop, 90x25x9 meters, with flat roof, containing
 - a. Plant Department, 4, lathing shop for rolls and axles
 b. \(\chissenbly\) of roller frames
- 7 plant Department 5, size as item 6, repair shop of the factory; administration in the 1st floor
- 8 Hardening shop, 110x18x9 meters, with flat roof, furnished with four hardening furnaces only one of which is in operation. The shop was furnished and equipped as late as spring of 1948.
- 9 Forge, 90x18x9 meters, with flat roof.
- 10 workshop size as item 9, purpose unknown
- 11 Tarehouse, 45x9x3 meters, with saddle roof.
- 12 good pattern shop, 55x23x6 meters, with daddle roof
- 13 Building, 9x7 x4 meters, with
 - a oxygen-producing station
 - b transformer station
- 14 Foundry and dressing shop, 90x27x9 moters, with flat roof; two casting-furnaces in the furnace shop (a), dressing shop (b) and administration in the upper story.
- 15 Coon-he rth department, also called new foundry, with sidewing, 27x27x9 meters, and flat roof. According to Soviets, four German giomens-Martin furnaces are being installed. It is unknown when they will be put in operation.
- 16 Rolling mill, 73x18x132 meters, with flat roof and two brick smokestacks, each 23 meters high and 2.7 meters in diameter. The mill was not yet furnished and equipped.

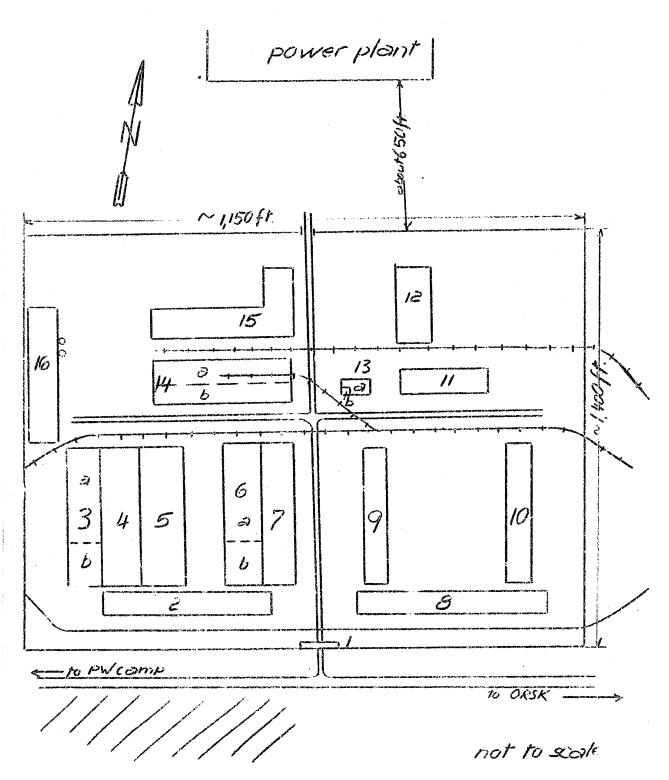
COMFIDENTIAL-CONTROL/US OFFICIALS ONLY

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B

All the workshops are steel structures with brickwork. The flat roofs are covered with sheet metal and tarred boards, the saddle roofs with planks and tarred boards. The arched roof of one shop is made of thin convex concrete-slabs, perforeted like sieves and covered with tarred boards.

South Urals' Machine Factory in Orsk



Legend: See report

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Annex 2

South Urais machine Factory in Orsk

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5X4A _{LUATION} _	OBTAINED.	s descent
DATE OF CONT	DATE PREPARED 25 May 1950	Palantisch tod describte, an kunn determine d. v. sowe Southfull deskind der der verschiede de state (1988)
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REMARKS.		2
	RETURN TO GIA	A STATE OF THE STA
SOURCE		25X1X
1	The nickel combine of Orsk (58035 8/51031 N), Chkalov Oblast is several kilometers northwest of Old-Orsk, between the rail-moad line and the road to Chkalov north of it. Plant No 516, a former ammunition factory, was on the other side of the relational line.	
2.	Plant installations:	
	The plant, about 2,000 x 800 meters, had 16 smokestacks and developed much smoke visible for a great distance. Soviet engineers stated that the plant had only one building in 1939, and	

About 12,000 Soviets and 1,000 towl, 2.0 German intermees working three shifts, except for the farnace department working four shifts.

that the construction of most of the buildings started in 1941. A new foundry and several small buildings were constructed dur at the period of observation. Most of the machinery was of american origin. A railroad connection was available. Power was supplied from the outside. Being in a poor condition, access roads

4. Production:

Nickel dust, $16\frac{1}{2}$ tons per day, and nickel plates, 80 x 60 x 5 cm.

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Comment:

- a. The plant, reviously designated "Yushuranickel" was known from war-time records, according to which it had a work force of 5,000 laborers and an annual output of approximately 12,000 to 20,000 tons of nickel in 1941. Other information indicated that the plant was continuously being enlarged after 1941, and a new town section, called hickel, was constructed near the plant.
- b. The exact plant location could not be determined. Two women retunees reported the plant south of the railroad line to Chkalov, while the present formation given the plant north of it. The road to Chkalov alleged to be north of the railroad line is entered on available maps far south of the railroad line. In spit of these divergencies the plant location is assumed north of the railroad line between the Ural hiver and the "reking mefinery. Clarification by additional sketches with landmarks is required.
- c. The attached sketch, the best plant layout reproduction received, needs confirmation.
- d. The brief data on production and output are valuable.

l Annex: Combined Mickel Plants in Orsk.

COMPLDEATIAL-CONTROL/US OFFICIALD CIVLY

CONFIDENTIAL CONTROL/US OFFICIALS ONLY 1/Annex

Legend to Annex:

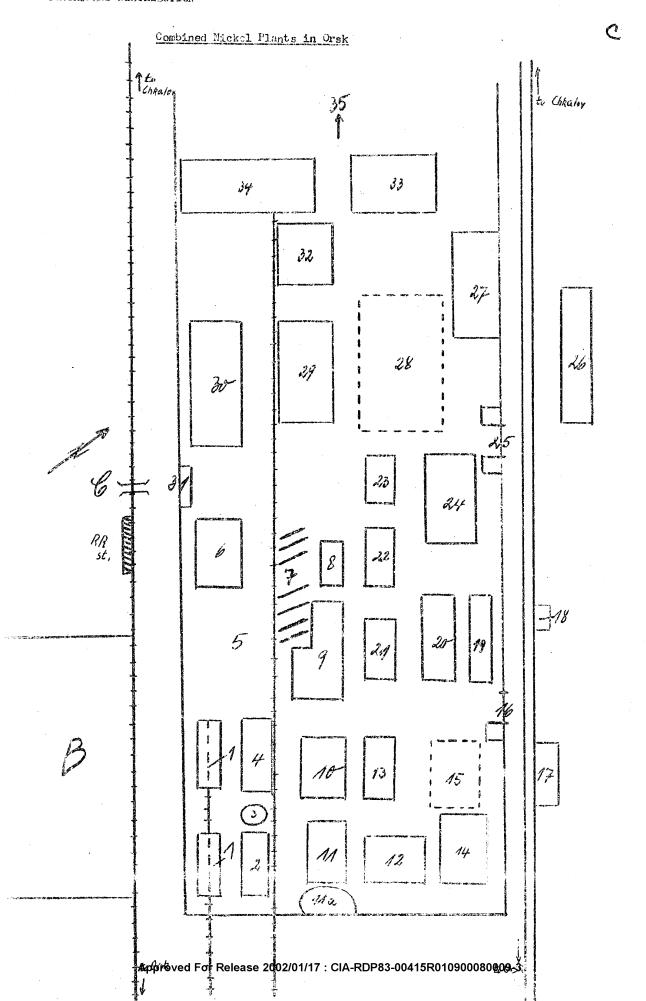
- Two unloading shops each long enough to house one train, iron frames with brickwork and sheet-metal roofs. The nickel-earth is shipped by crames from the bunkers to the conveyor belts and then to further processing. Soviets called the two shops Trabilna.
- 2 Melting shop, called Plavilna, same construction as No 1 above, has 11 melting furnaces on both sides of a rail-road track. The electrically heated furnaces have a capacity of three to seven tons. The processed raw nickel is cast to plates.
- 3 Drop hammer crushing nickel plates
- 4 Same building as No 2, has eight melting furnaces for the crushed raw-nickel, also casting plates
 - Buildings No 2, 3 and 4 are connected by conveyor belts
- 5 Thirteen shunting tracks
- 6 Three large bunkers for toke, coal, nickel-earth with grab-cranes for transloading
- 7 Additional bunkers at the other side of the railroad track
- 8 Wooden tool shop
- 9 Mechanical department, 25 x 15 meters with many metal working machines producing spare parts for the plant.
- 10 Foundry, 20 x 15 meters, brick building with plass roof, the old cast furnace was replaced by a new one with a capacity of 5 tons in 1948/1949. Source worked as a molder in this section
- 11 Carpenter shop, 50 x 25 meters with a sawframe and wood working machines; for plant requirements.
 - a. Timber dump
- 12. Soda storage
- 13 Brick building, 15 x 10 meters, details not available.
- 14 Ptorage dump for wastes, partially in small sheds
- 15 Open place with Lenin monument
- 16 Yuard and entrance
- 17 Director's office, 20 Leters Long, three stories
- 18 Fire department, red brick building

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CONFIDENTIAL-CONTROL/US OFFICIALS ONLY 2/Annex

- 19 Garage, stone structure building constructed in 1949
- 20 Kitchen
- 21 Electric repair department, small wooden building
- 22 Stone building, 15 x 10 meters with wooden roof, brass rolling mill with one small electric furnace and three small rolls for brass sheets. Saw material is delivered from Flant No 516 beyond he railroad line. The roof was burned in August 1949.
- 23 Stores with protective clothing for furnace operators
- 24 Tools and machine parts store
- 25 Guard house and entrance
- 26 Three horse stables, most transports within the plant area are horse-drawn.
- 27 Melting shop, stone structure, 20 x 15 meters with three electric furnaces, final processing of nickel.
- 28 Transformer station, especially fenced in, with one building
- 29 Boiler house and neating plant
- 30 Locomotive shed
- 31 Main gate with three-story building, with arched passage, dwellings for guards
- 32 Forge, 15 x 15 meters with four steam hammers
- 33 Mickel mill, three-story building, 20 x 18 meters, nickel plates are crushed, ground to dust and packed into sacks.
- 34 Loading shop, brick foundations and wooden superstructure, with loading ramp for four reilroad cars
- 35 Shunting station
- B Plant 516, former ammunition factory, about one-third the size of the nickel combine. Cartime production of shells for rifle ammunition and cartridges. Now brass rolling mill. It was said that the plant has a workforce of 2,000 laborers.
- C Railroad overpass for pedestrians.

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CLASSIFICATION Retease 2002/01/17 CIA-RDP83-00415R01090008 ___REPORT NO.__ TOPIC Factory for Tractor Parts in Chkalov 25X1A 25X1A ON_ DATE OF CONT REPARED____ 8 March 1950 DATE OPTAINED :EFERENCES. 1 ENCLOSURES (NO. & TYPE) 1 sketch on ditto AGES..... REMARKS. 25X1A AINEX E 25X1X **SOURCE** 1. Location: In the town center of Chkelov (55008'E/51046'N) Chkalov Oblast, near the railroad station. 2. Hant installations: Local residents said that the plant was constructed in 1941 and burned down in 1943. Reconstruction was started in 1945 and scheduled to be completed in 1948. The plant covers an area of 600 x 300 meters. Railroad connection and a plant owned power plant are available. For plant layout see Annex. 3. Work force: More than 1,000 civilian laborers and 100 PWs. Work was done in three shifts. Froduction: Assumition during the war, and tractor radiators, bushings and other bearing parts since the war.

25X1A

Comment:

AL MACHEMENT

Reported plant presumably is the same as the Kirov Plant which was previously reported to be a factory for tractor parts, located in the immediate vicinity of the railroad station. The assumed identity is corroborated by the sketches attached to both reports. Additional information is required for final clarification, especially as to location.

1 Annex: Factory for Tractor Larts in Chkalov (Ekatch on ditto).

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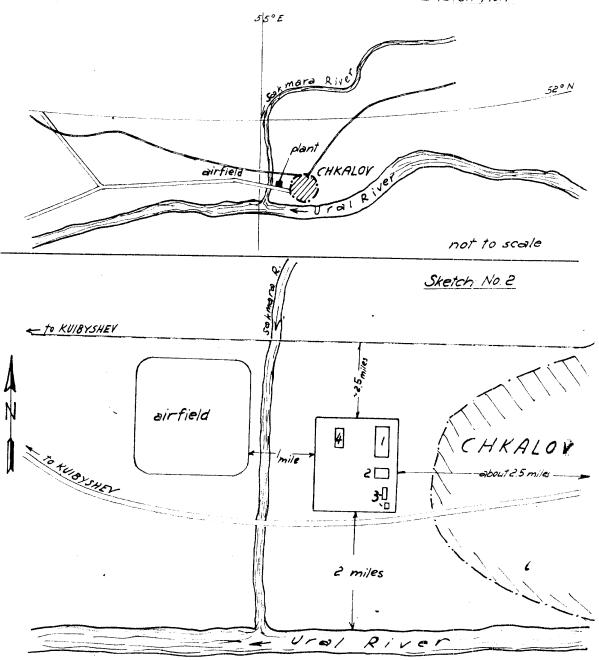
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	ings are brick structing was under constitution from (Railroad connection)	ctures with sheet metal rooms, ruction from June 1948 until Fe	bruary 1949.
3.	Work Force		
• •	350 Soviets and (0	PWs working in two shifts.	
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5.	The plant location	was confirmed by two additional orted on a second boring machine	PWs (F-3). factory under
5X1A			
	the plant are avai	in the attached sketch	is assumed

1 Annex: Factory for Boring and Milling Heads in Chkalov

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Factory for Boring and Milling Heads in ChikaLov

Sketch No.1



Legend:

1 Main building, 240x180x50 feet, equipped with four electro annealing furnaces on the ground floor, two more electro annealing furnaces on the second floor and many metal processing machines. The administration was also installed in this building.

Lathe shop, 180x75x18 feet
Magazine with tools and spare parts
New building, 180x100x25 feet, purpose unknown

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DATE OBTAINED.	DATE PREPARED 22 December 1949	
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25X1A SOURCE



1. Plant No 71: (Zavod 71)

a. Area: About 900 acres

b. Location and traffic facilities: West of IZHEVSK (53°10'E/56°50'N), Udmurt ASSR, south of the Lake (see Annex 2). A railroad net covers the entire area. Almost every building has spur tracks.

c. Plant history: According to an inscription, Workshop No 13 (see Annex 2) (Soviet Workshop No 38) was built in 1917. Workshop No 3 (see Annex 2) and the new motorcycle plant

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(Soviet Workshop No 55) burned in October or November 1945 and were rebuilt in 1946/1947.

d. Plant installation: (the following enumeration corresponds to the numbers of Annex 2).

installations recorded:

- (1) Motorcycle plant (old workshop building). Five-story building about 650 x 100 feet. In 1947 source went several times to the front of the building for retting pistons for 550-cubic centimeter motorcycles.
- (2) Six-story workshop building about 500 x 100 feet, under special quard. So details available.
- (3) Motorcycle plant; new workshop building (Soviet Workshop No 55). About 100 c 500 feet, grey plastering, the upper third of the building and the roofing were glazed. Production was resumed in August 1947. Part of the machines allegedly came from the WERNER Plant in CHESSITZ (N 51/4 60). The installation of the sachinery was done by 20 German engineers. Hew motorcycles with a piston displacement of 350 cubic centimeters were assembled on the assembly line. The single parts were manufactured in other subsidiary plants and workshops of the Flant No 71. Production on figures are not known.
- (4) Rolling Wil: Installations: Ses-fueled annealing furnaces, rolling mull installation for round and square iron, crane installations and traveling cranes.

Production: Castings of about 3 feet 3 inches length and 5 inches square, cast in Workshop No 18 (see Annex 2) were heated in the arms ling furnaces and rolled into round or square shapes. Round iron about 20 inches in diameter was generally manufactured. The products were cut to the desired lengths.

The finished products were examined for acceptance by Soviet testing framen.

- (5) Fondry (grey-easting bronze and aluminum foundry) (Soviet Workshop No. 52). About 100x130 feet. Workshops hopsed in this building:
- (a) rinding shop
- (b) fattern molding shop and grey-casting shop
- (c) Ercuze and aluminum casting shop
- (c) Testing acceptance.

Installations: A coke-fueled furnace for grey-casting, about 62 feet in diameter, 26 feet high; a bronze smelting furnace (coke fueled); each about 6.5 feet square. Coarse energy wheels.

Work force: About 100 men per shift.

Production: Steel and grey-castings: lashing-basin-shaped products, wall thickness from 30 to 70 mm; cast slabs measuring about 63 x 16 x 3 inches, cast blocks 100 mm in diameter and of 50 mm mange, all kinds of pulleys, foundation

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slabs for engines, all kinds of levers, cylinders for motorcycles; cylinder bushings: 120 mm in diameter, 300 mm high, and 3 mm wall thickness; and allegedly grey cast pistons of about 100 mm in diameter.

Bronze castings: kound materials from 20 to 100 mm in diameter and 300 mm thick; motorcycle control levers.

Aluminum castings: Cylinder heads for motorcycles as well as kitchen pots. Aluminum bars which came by rail were processed and some stored in sheds. The stock was sufficient only for the daily consumption. The output went to the various departments of Plant No 71.

(6) Hardening shop for smill parts of motor vehicles. About 500 x 100 feet.

Installation: About 150 gas-fueled annealing furnaces, about 10 x 10 feet and about 5 feet high, in five rows of 30 furnaces each. The gas was supplied by the Gas Work No 27 (see Annex 2). Fire-clay traveling grates passed through the furnace. The materials to be hardened were placed on these grates at one side of the furnace. The materials were heated to the required temperature in the furnace and after passage automatically dropped into the tempering bath.

Production: Screws, nuts, levers, spring parts and bolts were hardened. In a small annex at the eastern side of the workshop was a sand blast machine for outside cleaning of the motorcycle cylinders.

Lork force: About 500 Soviet workers.

- (") Searchlight tower. A wooden tower consisting of four 50-foot poles. It had 12 searchlights on top illuminating the plant area at night.
- (8) Probable AA mun emplacement: Under special muard and surrounded by an about three-foot wire fence.
- (9) Test department.

Installations: Pulldings with small partitioned rooms; special machines for all kinds of finishing tests. Testing of automobile parts for tensile, pressing, bending and twisting stress.

(10) Workshop for hardening of steel bands and wires (Soviet Workshop No 16)

Installation: Eachines for rewinding and cutting of steel bands and wires as well as furnaces for hardening these materials.

Production: Wires and steel bands in coils about five feet in diameter came from workshop No 26 (see Annex 2) and were rewound by machines to smaller coils about 20 inches in diameter. These small-size coils were annealed and dipped into a hardening bath. They were later greased.

Work force: Thirty Soviet workmen. The number of Plus was not known.

(11) Hardening shop for large parts. About 650 x 260 feet.

Installation: About 30 annualing furnaces of various design,

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fueled with has and wood. Base of furnaces: 16x26 feet; height: about 10 feet. has was supplied by the Gas Work to 27 (see Annex 2).

Production: Crankshafts, round steel and round iron in rolls were processed. Length of the crankshaft, about 5 feet; thickness: 80 mm. The materials to be hardened were trucked to the furnaces. After charging, the furnaces were walled up and heated. The materials remained in the furnaces for three to four (ays depending on their size. After this process the hardened places were not chilled but slowly air-cooled. After greasing, the hardened materials were packed and slipped by rail and truck.

Work force: Unknown.

- (12) Workshop for processing submachine oun barrels, Darrel blanks of submachine guns came into the workshop.
- (13) Repairshop (Soviet workshop No 38): About 260 x 100 feet.

Installation: Fifteen lathes, distance between centers: Five feet, Soviet make, Four lathes, distance between centers: Twenty feet, Soviet make. Two vertical boring and turning machines. One lathe with oil pressure control; center distance about 16 feet; British make. One lathe; center distance about 13 feet; French make.

One turret (?) lathe with surface plate; $6\frac{1}{2}$ feet in diameter; Soviet make.

Two iron planers with about eight square meters working surface, one with electric magnetic coupling; Soviet make. Five shaping machines.

One vertical drilling machine; knee length: 61 feet; German make.

One vertical drilling machine with push-button control; American make (Carlton).

Two magnetic grinding machines; usable working surface:

One magnetic grinding machine; usable working surface: 12 square meters; Jerman make.

Two magnetic grinding machines; usable working surface:

Three horizontal drilling machines for making drill holes up to 3 feet 3 inches in diameter; operator's stand about 62x10 feet, working bench about 10 x 16 feet; height of the machines: 20 and 13 feet, American make.

One horizontal drilling machine, about 19 feet high, German make.

One horizontal drilling machine, about b feet high, German make.

One vertical keyway slotting machine, 20 feet high, Polish make. One vertical keyway slotting machine, 5 feet high, Soviet make. One milling machine, 52 feet high, Czech make (Maas). Two muchines for milling cylindrical goar wheels, base of machines 6.5x10 feet; unknown make.

Two machines for milling conical gear wheels, base of machines 6.5 xl0 feet; unknown make.

One milling machine, base 6.5x6.5 feet, German make (Werner). One iron planer with 6 square meters' working surface, German make.

One welding apparatus, Jensen make Doersk.

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One electric traveling crane, German make. Various grinding wheels and boring machines.

Power was supplied by the Power Plant No 24 (see Annex 2).

production: Repair work for the entire Plant 40 71. The needed meterials were delivered by other departments.

Nork force: 150 Soviet workmen and 30 PWs per shift.

(14) Welding shop. It was part of workshop Wo 38 (see Ander 2). 100 x 65 feet (ground floor and first floor).

Installation: Two welding motor generators; ten welding transformers, likilowatt output each. One spot-welding machine.

Production: Special welding work was done on parts coming from Workshop No 13 (see Annex 2).

Work force: Ton Soviet workmen.

(15) Large kitchen. About 80 x 260 feet.

Installation: About 40 bilers of 200 mallons each, heated with mas, and German baking ovens.

(16) File factory. 100 x 160 feet.

Work force: About 450 Soviet workmen and 150 PWs per shift.

(17) Iron rolling mill. 650 x 330 feet.

Installation: Only Krupp-Gruson machines, three rolling trains, five gas-fueled annealing furnaces, about 20×35 feet.

Production: Iren innots about 16 x 16 x 63 inches were rolled into four-square iron of 120x120 mm. Bars were cut into 3 to 10 feet lengths and sent in freight cars to the other departments of the Plants No 71. Gas was supplied by the Cas Works To 27 (see Annex 2).

(18) Lar e electric foundry. About 1,000 x 300 feet.

Installation: Only Krupp machines; the electrical installations were ANG products. The electric instruments had a current strength of 15,000 Amperes.

Production: Bars applying by rail were recast into castings.

(19) Electro-repair department (Soviet Workshop Ro 45). About 160 x 100 feet.

Installation: est stands for materials, armature winding machines and lathes.

Production: All repair work to be done on electrical instruments of Plant No 71.

Work force: Twenty Soviet workmen.

(20) Lepartment for the construction of large iron parts. About 130 x 80 feet (lst and 2d floor).

Installation: On the first floor: Two force fires, two

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straightening plates of 13 x 6½ feet each, one plate and ironcutting machine, twenty veiding transformers, one corrugated
plate machine; On the second floor: Six lathes with
center distance ranging from 5 feet to 6½ feet; pre shaping
machine, one horizontal milling machine, two drilling machines, two emery wheels.

Production: Boilers, bridges and workshop roofs. The single parts were manufactured in the workshop; the assembly into large parts was done in the yard.

Work force: 100 Soviet workmen and 40 PWs, per shift.

(21) Workshop building.

Four canton ent buildings of 50 x 200 feet each.

installation: punches, presses, rolls, grinding apparatuses and annualing furnaces.

Production: Saw blades, develo and deterribe chains, but for the most part: feed belt links (disintegrating belts) for arms up to 20 mm califer.

Work force: 300 Soviet workmen and 60 PWs, per shift.

(22) New building (Soviet Workshop No 52) 650 x 200 feat.

installation: One electric smelting furnace and one coal-fueled smelting furnace; four grinding wheel stands with two wheels each. The machinery a rived during the time of observation.

Production: Grey-cast small parts are scheduled to be manufactured.

- (2%) Transformer station: About 330 x 80 feet.
- (24) Power plant: About 500 t 260 x 65 feet.

Equipment and kilowatt output was not known. The building had six sheet-iron shokestacks, about 30 feet high and about 22 feet in diameter.

(25) Stole tower: About 50 x 30 feet; eleht stories, surnounted by a platform on which rose a second tower, about 20 feet high.

The administration was housed in this structure.

- (26) Wire drawing shop (Soviet Workshop No 10): About 650 x 160 feet.
- (27) Gas works.

About 500 x 260 feet; the casometer was not visible from outside.

- (23) New building: About 260 x 30 feet; still under construction; scheduled use, unknown,
- c. Nork force and work tile:

The total work force of the plant is not known. During the tile of observation 30 German engineers who came from the

DKW and Wanderer Plants in Saxony were employed in the new motorcycle department. Work was done in three 8-hour, shifts.

f. Security:

The plant was surrounded by an about 10-foot high wooden fence. Watchtowers with searchlights were at the four corners of the plant. A second about 5-foot high barbed-wire fence on the inside left a 160-foot wide restricted zone between the two fences.

- 2. BUK Iron Construction Plant No 8 (Annex 1 and Annex 3)
 - a. Area: 2,000 x 820 feet.
 - b. Location and traffic facilities: (see Annex 1). A spur track existed but no plant-owned locomotive.
 - c. Plant installations: (The following enumerations correspond to the numbers of Annex 3). Departments recorded:
 - (1) Welding shop: 50 x 16 feet Installation: Autogenous welding installation.
 - (2) Boilerhouse: 33 x 16 feet. Installation: Several boilers for heating purposes.
 - (3) Lathe shop: 500 x 250 feet. Installation: Ten lathes; center distance 5 to 65 feet. Two column drilling machines.
 - (4) wocksmith's shop: 500 x 250 feet. Installation: One work bench with six vices, one forge fire and one emery wheel.
 - (8) Plate adjusting shop. Size unknown.

installation:

One straightening plate of about 5Afect, one roll for adjusting plates about 10 feet wide and 20 inches long, cutting tools for sheet iron and iron bars.

Production: Squ re, round and angle iron.

(A) Miveting shop: 330 x 65 feet (wooden shed)

Installation: Three or four welding transformers and some field forges for ammealing of rivets.

Production: Single parts manufactured in the workshops were foined into sectional or finished constructions.

d. Power and raw materials:

Power: Power was supplied by the power plant of Plant No 71 (No 24 in Armex 2).

Naw materials: Somi-finished roods such als plates and bars

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came by rail or truck (presumably from the Plant so 71).

e. Work force and work time;

150 Soviet workmen and 100 PWs per shift. Work was done in three 8-hour shifts.

- f. Production: Iron structures for bridges and workshops; the smount produced is unknown.
- g. Security: The plant was surrounded by an about 10-foot high fence.
- 3. Engine House No 33 and locomotive repair plant (No 12 of Annex 1, and Annex 4).
 - a. Location and traffic facilities: (See Annex 4). The plant had spur tracks to the KAZAN railroad station and track connections to the Plant No 71.
 - b. Plant installations (see Annex 4).
 - (1) New assembly shop (three-story building, 500 x 100 feet): It had direct spur tracks. The tracks an over assembly pits through the antire workshop. No further machines and installations existed.
 - (2) Repair shops (three-story buildings)

On the ground floor: Assembly pits

On the first floor:

- (a) Issue of tools and materials; only small stocks were stored for meeting current requirement.
- (b) Electrical workshop

Installation: One test stand, three vices and one motor for test-driving the 5 -volt localotive dynamos.

(c) Forge:

Installation: Two forge fires and one pneumatic hammer

(d) Welding shop:

Installation: One forge fire, one straightening plate, $6\frac{1}{8}$ feet square, one autogenous welding installation.

(e) Lathe shop:

Installation: Six lathes, center distance five feet; one lathe, center distance 20 feet; three shaping machines, one vertical and one horizontal uilling machine, one lathe for turning railroad wheel riss, one column-type drilling machine.

(f) Well of a staircase

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c. Power and raw materials:

Power and raw materials were supplied by Plant No 71.

d. Wirk force and work time:

200 "oviet workmen and 35 Phs, per shift. Work was done in three 8-hour shifts.

- e. Production: Locomotive repairs; output unknown.
- f. Security: The plant was bounded on the north by a 10-foot high wire fence; on the east and test by a damaged lattice fence, and was open on the south.

25X1A Comment:

The report supplements a previous report as well as confirms may of its indications. No conclusive content on this combine can be given due to the variety of its production.

4 Annexes:

20

21

IZHEVSK Industrial Combine (4 sketches).

Legend to Annex 1

- 1 Radio station Stadium 3 Officer candidate school hifle factory 5 Plant No 71 Savmill 7 Railroad station and railroad car repair plant 8 BEK Plant 9 Larehouse 10 Later tower 11 Church 10 Locomotive repair plant 13 RAZAN railroad station 14 Fuel dump 15 Mill and bread factory 16 Pistol factory 17 Scrap dressing plant 18 Red brickwork building 19 Storage depot for fuel and foodstuffs
 - Legend to Annex 2

Large garage and repair shop

Padole steamer line.

Rotorcycle plant (old workshop)
Six-story workshop building
Totorcycle plant (new workshop building)
Rolling mill
Foundry
Hardening shop for small parts of motor vehicles
Searchlight tower
Probable antiairc aft gun emplacement
Test department

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Workshop for hardening of steel bands and wires (Soviet Workshop Wo 16) 10 11 Hardening shop for harge parts for LorishopAprocessing submachine gun barrels 12 1.7 Repairshop (Soviet Workshop No 38) Welding shop 34 Large kitchen 15 16 File factory 17 Iron rolling will Large electric foundry 18 Electrical repair department 10 Department for the construction of large iron 20 parts 21 borkshop building New building (Soviet horkshop No 52) 22 23 Transformer station 24 Power plant 25 Stone tower 26 *iredrawing shop

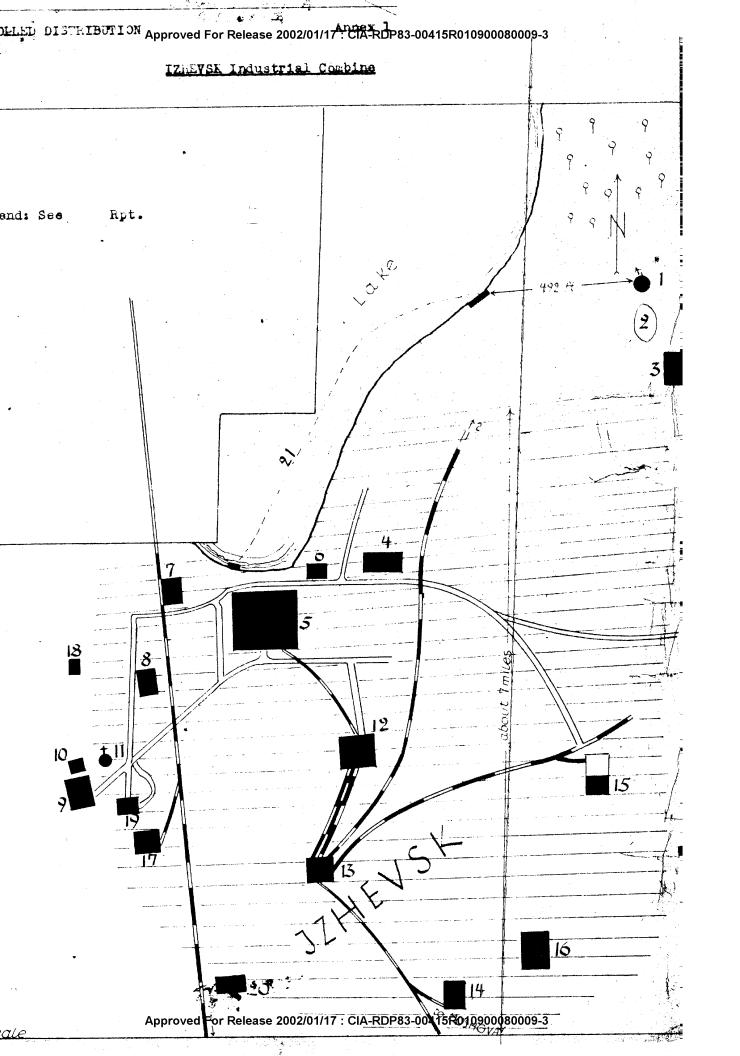
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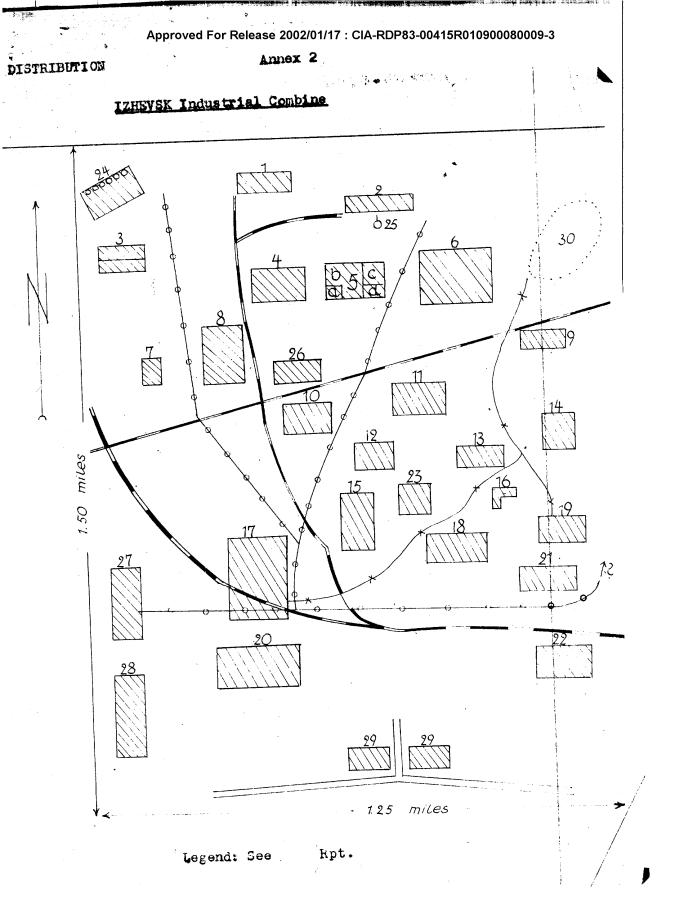
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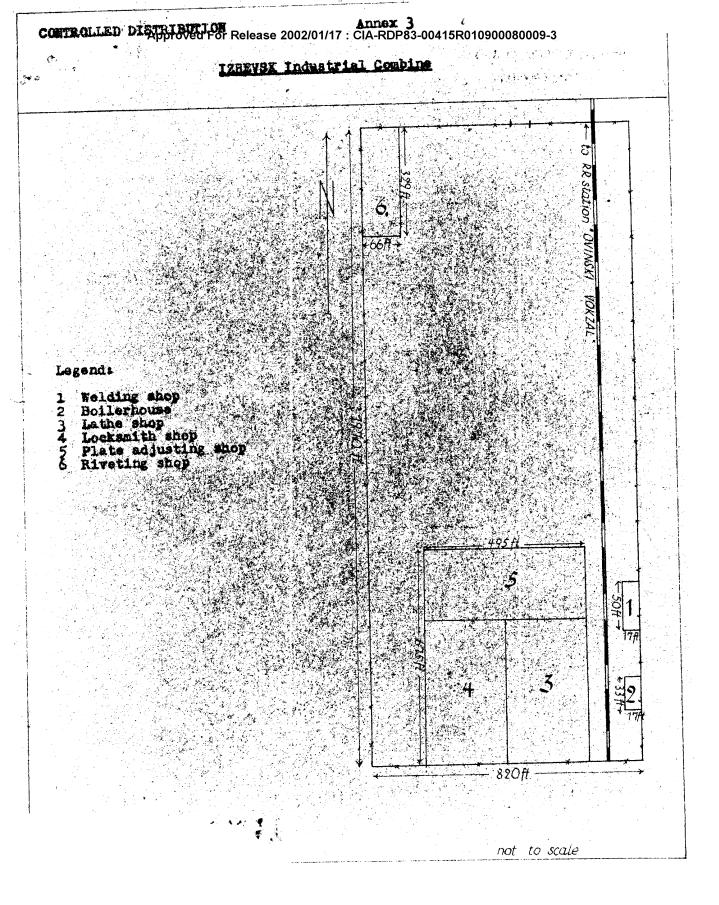
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New building

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SOURCE

1. Location:

In the sector of Chkalov (55008'E/51046'N), Chkalov Oblast, near the railroad station (see Annex).

2. Installations:

The plant is the central repair shop for a number of smaller municipal repair installations which use the foundry of this plan. The installation was built before the war. Learly all the buildings are steel skeleton structures with sheet-metal roofs and concrete floors. The foundry is the biggest building. The plant has a rail-road connection; power is supplied from without.

3. Jork force:

Three shifts of 300 workers each.

4. roduction:

Manufacture of spare parts of all kinds and repair of motor vehicles, chiefly trucks.

25X1A

Corment:

- a. Reports in which the plant was called a "tractor spare parts plant" were previously submitted.*
- b. The location of the plant, which was also previously given as being "near the railroad station", is shown more accurately in the attached sketch. It is only because of this presumably correct data on the location of the plant that the present report is forwarded.

 The value of the other data seems doubtful.
- 1 Annex: Location Sketch of the lotor Vehicle Repair Shop and Spare Parts Plant in hkalov.

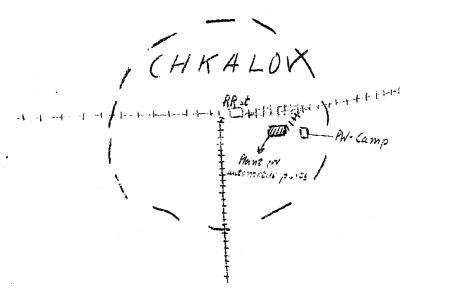
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Annex

Location Sketch of the Liotor Vehicle Repair Shop and Spare .

Plant in Chkalov.



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TOPIC nechanical Float in Kyshtym	<u>25</u> X1
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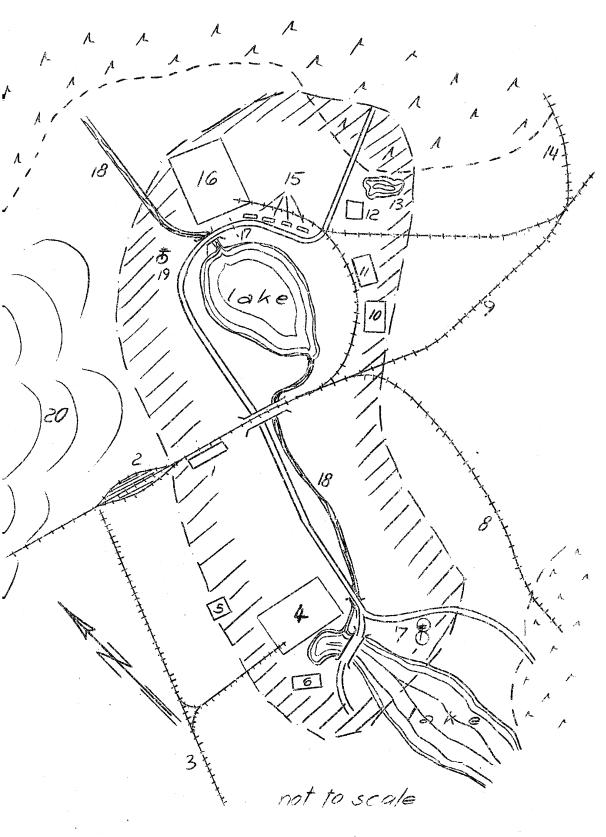
- l. Location: In the southwestern sector of Kyshtym (60°54°E/55°42°N) Chelyabinsk Oblast, on the northern tip of Southern Lake. See Annex 1.*
- 2. plant layout: The factory area is about 800x400 meters, half of which is built up. The date 1911 inscribed on one of the buildings indicated that a section of the plant was built before TY I. Power is supplied by the municipal power plant. A spur track branching off from the narrow-gauge railroad line to Karabash enters the factory from the northwest. The factory approach road is in good condition. A new building is being constructed on the northwest side of the plant. The steel foundry has three open-hearth furnaces; the other foundry produces brass and bronze castings. For plant layout see sketch 1 of Annex 2.**
- 3. Work force: More than 5,000 working three shifts in addition to about 300 Pys working two shifts. **2
- 4. Production: Locomotives, railroad cars and lorries for narrow-gauge railroad lines and general repair of such equipment.

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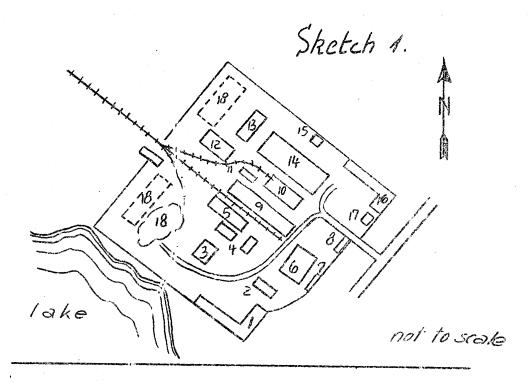
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Mechanical Plant in Kyshtym

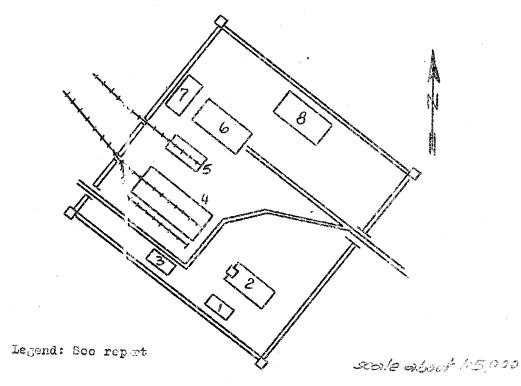


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Mechanical Plant in Kyshtym



Sketch 2.



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a previous report definitely locate the new plant as in a forest east of the Chelyabinsk - Sverdlovsk railroad line.

Because the purpose of the rlant cannot be determined from the indefinite information, additional data are required.

2 Annexes: 1. Factory under Construction near Kyshtym. 2. Factory under Construction near Kyshtym.

Annex

N

Desend to Annex 1

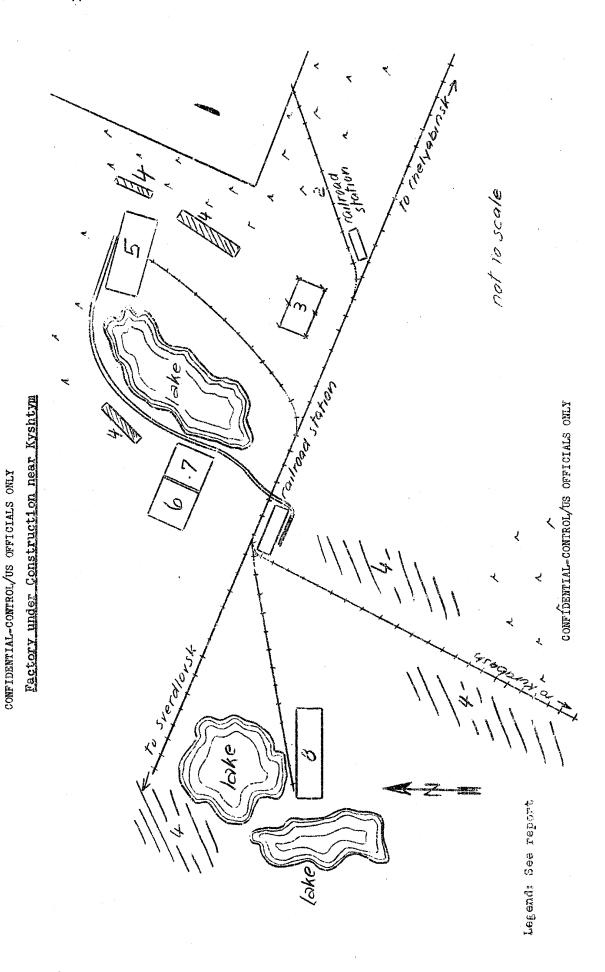
- New modern armament plant under construction Hailroad connection to the construction site PW camp

- Apartment houses
 Copper foundry, SOO x SOO meters
 Graphite plant
 Factory manufacturing sand for grind stones
- Iron foundry.

Annex

Legend to Annex 2

- New plant under construction, about three or four kilometers square
- Cemetery
- PW camp Mechanical factory
- Fire clay plant Copper smelting plant
- Bazaar
- 8 Graphite plant 9 Kaolin plant.



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SOURCE	l. Location: North of Mass (60°07° E/55°02°N) Chelyab: at the northern end of a spur track.	insk Oblast
•	2. Plant installations: According to Soviet statement was constructed in 1941. By now it has reached the Stuttgart Daimler-Denz Plant. A new boiler how by the end of 1946 and started operation in 1947. motive barn was put in operation in 1946. Power we from the outside. For plant layout see Annex.	e dimensions of use was complete
	3. Nork force: Far more than 10,000, the exact number estimated.	or could not be
	4. Production: Three-ton trucks.	

25

a. The automobile plant in liass has been repeatedly reported on. For details on the technical installations of the different workshops see a previous report*.

b. The attached plant layout is assumed to be correct. Since the report does not contain data on size and type of construction of the buildings, it is not very valuable as target information.

1 Annex: Llueprint, Ural SIS Lotor Vehicle Plant in Mass.

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Kegend to Annex.

- 1 Gate No. 1
- 2 Clothing supply
- 3. Office and shed
- 4 Gate No. 2
- 5 .orkshop under construction, assembly shop for automobiles
- 6 final assembly of 3-ton trucks
- 7 Lanufacture of chassis
- 8 Parking lot
- 9 Street lamps
- 10 Transformer station
- 11 Cuard towers, posted in equal intervals around the plant
- 12 .less hall no. 1
- 13 Precision mechanical department
- 14 . Lanufacture of engines, Lo. 2
- 15 . lanufacture of engines, No. 1, equipped with production line
- 16 Offices
- 17 Laboratory
- 18 Hardening shop
- 19 Loading ramp
- 20 Fattern making carpenter shop
- 21 Foundry
- 22 Foundry
- 23 Offices
- 24 Presumably power station
- 25 Foundry
- 26 New boiler house with modern coal dust fueling, operating since id-1947
- 27 Cld boiler house
- 28 Jaokestack
- 29 Cate No. 6
- 30 Coal dumps

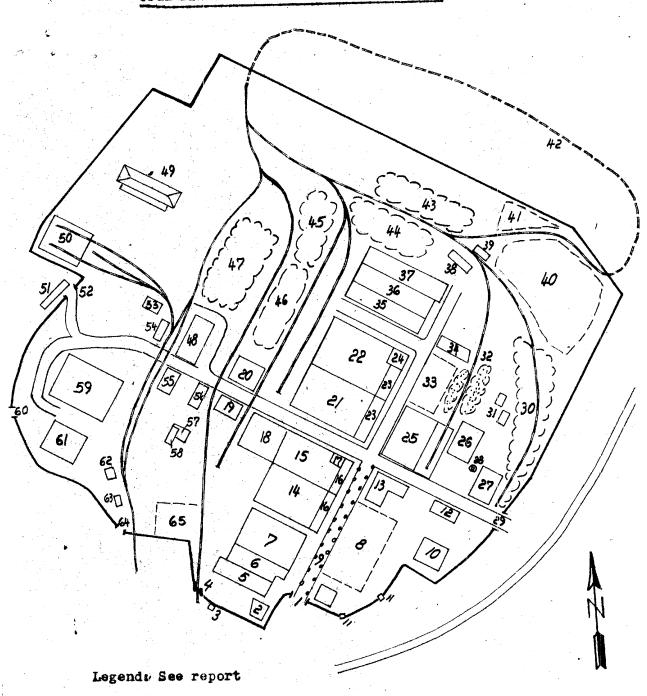
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- 31 Two sheds
- 32 Jump of foundry sand
- 33 Dump of light metal plates
- 34 Office building
- 35 Hilling shop
- 36 Drawing shop and press cutting shop
- 37 Lathe shop
- 38 Store of fire-clay bricks
- 39 Erick yard
- 40 storage dump of boards and planks
- 41 Storfe dump for timber
- 42 Projected railroad track
- so Joke dump
- 44 Scrap dump
- 45 Storage dump of facings for shipments
- 46 Storage dump of pig iron
- 47 Letal store and storage dump of dismantled machines to be installed in workshop Lo. 5
- Loading ramp for motors, here and at the storage dump of dismantled machines, source identified machines from the Stoever Plant.
- 49 Filling station for oxygen cylinders
- 50 Locomotive barn, operated since 1 kg 1946
- 51 Piesty
- 52 Gate Lo. 5
- 53 /eldin/ shop
- 54 Cement shed
- 55 Loading ramp
- 56 Loading rang
- 57 mailroad administration
- 58 Less hall
- 59 Sawmill

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- _ 1 _
- 60 Cate No. 4
- 61 Loiler house of the sawmill
- 62 Later station
- 63 Administration of plant railroad
- 64 Gate No. 3
- 65 File of automobile tires

Ural SIS Motor Vehicle Plant in MIASS



not to scale

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SOURCES



- 1. The Kirov Tractor and Tank Plant, also called "4TC", was east of Chelyabinsk (61°25'E/55°10'N), Chelyabinsk Oblast, north of the Omsk railroad line. The terminal point of a double-track streetcar line was at the northern plant entrance. Almost every workshop has a connection to the wide spread railroad net in the plant. The plant roads were well preserved, some having been recently repaired by PVs. The plant designation was in three large luminous letters over the entrance.
- 2. According to Coviet laborers more than 60,000 people worked in the plant and the many subsidiary installations in the city. The exact number was not determined. Each day seventy-five Kirov S30 tractors, tractor spare parts, and tanks were produced. The 4-cylinder diesel tractors, with an engine capacity of 80 hp, caterpillar drive, and a cruising speed of 9 kmh, were also produced with a snow plough and a planing device. The output of tanks and tractor spare parts was not determined.
- 3. The plant which, according to Soviet laborers, was constructed in 1933, was enlarged by one new workshop installed during October 1949. The construction of two steel structure workshops started in the summer of 1949. Soviets said they were

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43

RETURN TO RECORDS CENTER IMMEDIATELY AFTER USE JOB_56-300 BOX_4/

for the production of tanks. A Soviet foreman said that 23,000 laborers worked three and two shifts. General Salzmann, (fnu), was plant manager.

4. Sixty to seventy-five tractors per day have left the production line since the end of the war. The Kirov tractors had 4-cylinder engines with 35 hp. From October 1943 to October 1949, 16,500 tractors were produced. The wartime production of tanks was resumed in May 1949. The type was not identified but the gun had a caliber of about 122 mm, and the engine had six cylinders. The output was not determined.

Comment. The report gives the newest and best information received on the tractor and tank plant in Chelyabinsk. The attached sketch is considered to be correct as to the essential plant buildings. However, the second source also mentioned two steel structure workshops under construction south of the tank manufacturing shop, for tank production purposes, and a heating plant in the southern plant area. If the statements of the second source are correct, the output of the last year went far beyond the 1943 production schedule of 10,000 tractors. The annual output of 16,500 tractors seems rossible but a daily cutput of 75 tractors is considered too high. Other records indicated a weekly output of only 60 tractors prior to June 1948, presumably because the plant was being converted from tank to tractor production. It is believed that difficulties in the plant alteration were overcome by the end of 1948 or in early 1949. No details are available on the present tank production, but one report indicated that this production was resumed and that new buildings were under construction in order that the two production branches in the plant would be completely separated.

1 Annex: Kirov Tractor and Tank Plant in Chelyabinsk.

25X1A

Annex

Legend to Annex

A Kirov Tractor and Tank Plant

1 Entrance for PWs

la Road from PW camp 7602 to the plant

- 2 Small production shop for liquid ammonia, with two 20,000 liter containers.
- Power station, especially fenced in with barbed wire. Test station for materials, three-story building, 50 x 20 meters, with German and American machinery.

Administration

Entrance for civilians

- Management building, 60 meters long, four stories Bare structure of a new workshop, 200 x 30 meters. Rails for traveling cranes were fitted, the iron structure of the roof in the war part of the building was still under construction. No machinery had arrived. Soviets said that the departments No. 100 and 700 will be moved into this building, which was called "new tank building" by the PWs. 011 dump
- Full automatic turret machine department processing large steel pieces, crank shafts, and armored plates. This department was considered a convenient work place.
- Repair shop, high building visible from a great distance.

Model-making carpenter shop

- Sawmill with vertical saw-frame and drying installation.
- Two fuel oil containers, 7 meters in diameter and 7 meters high, with an above-ground pipe connection to the forge.
- Railroad sidings with Soviet and German locomotives rusting in the open
- Foundry, about 320 meters long, presumably with four spans. The furnaces were charged through funnels in the roof, from which light flames sometimes emerged. Production of motor blocks, gear casings and other castings. As the workshop being off limits for PWs, the installations were not familiar. Production data were obtained from transports leaving the workshop.

17 Forge No. 1 through 3, about 30 meters long 17a Annealing furnaces

- Department No. MK 10, equipped with machines for the production of pivots for tanks. The department was not in operation for a long period
- So-called Korpus Noi, production of casings for clutches, gear and stearing gears, with eight Soviet welding apparatus, three or four very large American milling machines, five meters high, and three smaller Soviet milling machines of the same type, eight conventional milling machines, boring machines and thread cutting machines.

Annex

Department No. 700, production of tractor and tank springs, with women laborers, processing of cylinder bushes, valve heads, bearing bushes, and, at the last, annealing of crank shafts. The department has nine electric annealing furnaces, six hordening bathes of

various types, and three sand blasts.
21 Department No. 100, processing of crank shafts for tractors, manufacture of connecting rods for tractors and tanks, with four automatic machines, four lathes, two special presses, five grinding machines and several polishing machines. Output per shift: 35 crank shafts for tractors, 5 crank shafts for tanks, 10 crank shafts for an older type tractor, 60 connecting rods. Source worked as a lathe operator and later as a clerk in the paymaster's office for this department.

Department No. 200

Tractor assembly department with two production lines, a small one for the manufacture of single parts such as rollers, springs etc., and a large one for the assembly of tractors. The se-called Skolotno - Stampo 1 and Skolotno Stampo 2 cutting body parts are also in this department.

Hardening shop with two large and six small annealing furnaces, 20 circular annealing furnaces with a diameter of $1\frac{1}{2}$ meters and a sand blast. Hardening of links for chains, chain bolts, cog wheels and tubes.

Chassis department

Diesel engine department, assembled engines were put on a metal plate and tested for a period of 50 minutes before fitted into the tractors. Heavy engines had a

two-cylinder auxiliary gasoline motor to start. Preparation installation for materials to be cut No. 18 through 27 are in one large building, about 400

150 meters large.

Tool department with several metal processing machines. Kanufacture of measuring instruments and gauges. The upper floor houses a canteen.

administration for the plant departments and for the shipping department

Cooling water installation with large concrete basin. The vater is tossed up in the air for cooling.

Material depot with railroad sidings

Raw material depot, mostly for the forge Hain shipping department for spare parts, 120 x 55 meters

Dump with section iron

Tank production shop, 700 x 150 meters with three spans and a black sheet-metal roof, and three gates at one small side. No details available,

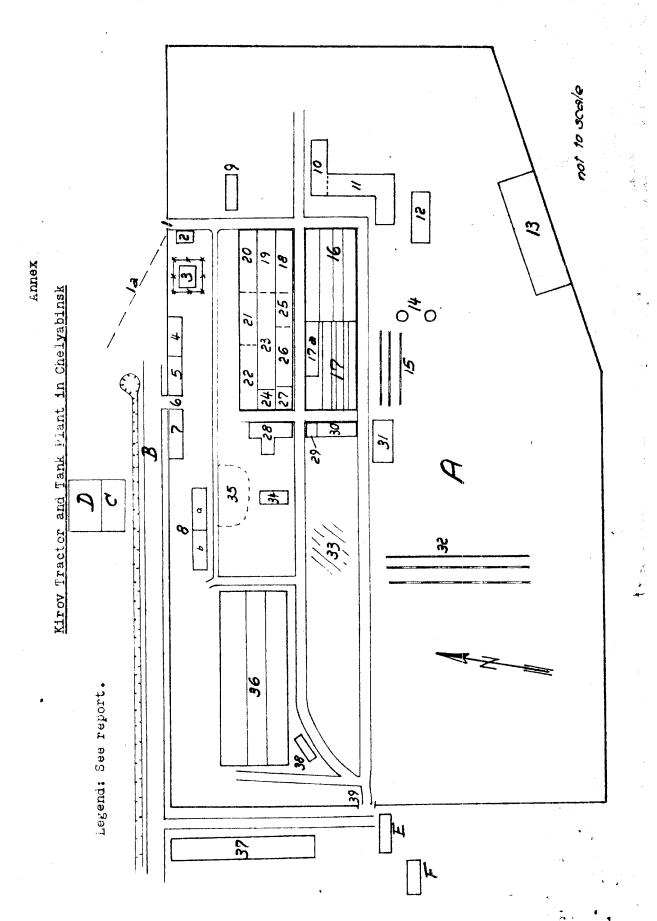
Presumably the construction department

Exit gate for tractors; other tractors leave the plant by rail.

Arnex

11

- B Main street, called Spartak, from the Red Square in Chelyabinsk in a northeastern direction to the main gate of the plant, 11 meters wide, modern construction with wide sidewalks. A trolley bus line was in the street and a double-track streetcar line beside the street. Both had their terminal points at the main gate.
- Auto bazaar
- Workshop manufacturing driver's cabins for tractors
- Wooden houses, quarters of guards Die manufacturing shop.



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SOURCE

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1. Location:

The tank and tractor plant Kirov is about 3 to 4 km east of the center of the town of Chelyabinsk (61°25°E/55°10N), at the end of a large asphalt road and a double-track streetcar line which terminates in a return bend in front of the main entrance to the plant.

2. History and organization:

a. The Stalina tank or tractor plant was converted to tractor construction in 1945. Tank construction was no longer observed. The old Stalina tractor was first produced, then the production of new S 80 series was started.

b. The history of the construction of the plant up to 1945 is unknown. Since that time shop (3) has been under construction but is not finished and its purpose was unknown.

3. Layout:

a. Surroundings: Flat, treeless terrain, partially built-up with widely dispersed buildings. From the east, a high-tension line goes to the transformer station. There is a lake 5 km east of the plant.

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b. Size, about 6 square km. The layout was dominated by the tract (3)-(2)-(9). (9) was the engine shop, (2) was emulti-sectional shop, 200 x 700 meters, with a belt conveyor for finel assembly. Piece parts were also made on the benches along the inner walls of the shop. Most noticeable was the administration building (1) which was 400 to 500 meters long and had four stories and a tower (la). The main approach read ran through (13) to (2) and centrally led to all parts of the plant. At the eastern side of (2) was the end of the belt conveyor for the final assembly. The tractors were parked there on a large side-street, ready for sale.

c. The mechanical equipment was chiefly of American or German origin (prewar deliveries). Only a Sew muchines were dismantled in Germany.

4. Labor:

An estimated 50,000 to 70,000 laborers for all shifts, including 50 percent women, many compulsorily drafted juveniles, and 3,000 to 4,000 convicts.

5. Production and capacity:

- 8. Power supply from outside.
- b. Delivery of raw-steel bars at (5). Except for precision parts, e.g. plugs, pumps etc., the tractors, including the engine, were finished there.
- c. In most sections two 10-hour shifts, furnece operation three 8-hour shifts. Thirty percent waste (could easily be made out as it was painted red), remarkably low efficiency.
- d. Casting and pre-processing in (5). In (9) final treatment and completion of engines. In (2) final treatment and completion of tractor chassis and builging-in of engines.
- e. Exclusively construction of tractor S 80. Weekly output 50 to 60 pieces (information from many fellow prisoners and source's own knowledge of belt-conveyor work in (2)).

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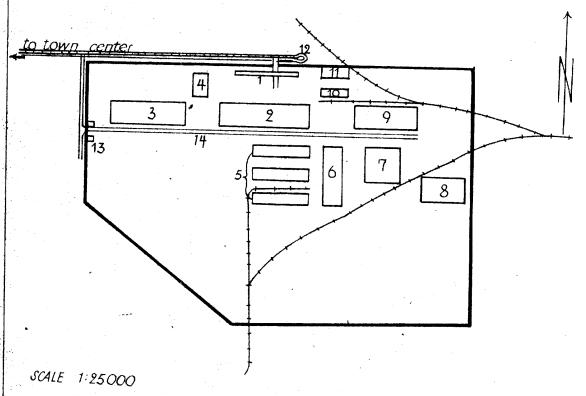
f. The capacity obviously was not fully used due to the slow change to the new series. Tanks were allegedly produced up to 1945; in November 1945, when source arrived, old-type Stalin tractors were built; the output at that time was hardly more than 10 pieces per week. At the same time the production of the new tractor was started. The production of 5 80 was raised from 50 to 60 pieces per week during the period from early 1946 to July 1948.

g. A conversion to tank construction will be possible at any time.

1 Annex: Tractor Plant in Chelyabinsk.

Alabar Kolly

Tractor Plant in Chelvabinsk



Legend:

- Four-story administration building, 1,500x60 feet with
- an eight-story tower

 Workshop for the production of tractors, assembly line system, 2,000x600 feet

 Building under construction

 Garage with filling station

- Three forges, presumably also mechanical shop. Raw steel was stored between the workshops
- Foundry, off limits to PWs Repair of machine tools
- Sawmill .
- Production of engines and assembly
- Lubricants dump
- Transformer plant
- Main entrance with terminal of streetcar line
- Main entrance with two guardhouses
 - Factory road

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25X1X SOURCE

- 1. The Kirov tank and tractor plant is about six kilometers from the center of the city of Chelyabinsk (61°25°E/55°10°N), in the middle of the industrial district. The plant is estimated to be between 25 and 30 years old. According to statements by Soviet workmen, the clant was considerably enlarged by the evacuation of other plants, said expansion work being done by PMs since 1944. For sketches of the plant, see Annexes 1 and 2*.
- 2. The tractor shop was estimated, by pacing, to be 1,000 meters long and 80 meters wide. The Korpus NOI section occupied one-third of the shop area, and was estimated to be 50 meters long and 80 meters wide. It contained about 25-30 milling machines, as well as six to eight welding apparatus for the production of tractor gear boxes and chaindriven tractor wheels. The remainder of the tractor shop was devoted to the assembly line production of tractors. The shop was subdivided into many sections, without partitions.
- The foundry and forge shop contained six Seton, and three 13-100 steam hammers. It also accompdated a tank assembly shop.**
- 4. The total labor force was estimated to be between 56,000 and 70,000 persons, working in three shifts. In cases where the fulfillment of prescribed output quotas were doubtful, additional shifts were ordered to work, including Sunday shifts. The tractor shop employed approximately 5,100 Soviets on three shifts, 660 of them worked in the Korpus NGI section of that shop.

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- 5. The manager of the plant, until the Summer of 1948, was Ceneral Salzmann, a member of the Supreme Soviet, and at the time city commandant of Chelyabinsk. He was relieved by another general for reasons of corruption. The engineers and machalniks (leading persons) were civilians.
- 6. The plant was surrounded by a high board fence topped with wire. Matchtowers were elected at intervals of 200-400 meters. Uniformed plant police occupied the watchtowers, and were posted at the entrance to the tank shop.
- The tractors produced at the plant were of the S-80 caterpiller type. Daily production of these tractors was estimated at 40-60. In February 1948, the wonthly total was estimated at 500-600 tractors, while in September and October 1948 the total was estimated at 3,600. These tracters were four meters long end 2.5 meters wide, and bore the letter "K" on the upper portion of the redistor casing. The prescribed monthly production quota of 3,600 gear boxes in the Korpus NOI section was fulfilled. The gear boxes were made of gray easting, ground inside. These boxes were one meter high, one-half meter wide, 25 millimeters thick (thinner where pressed out), and pear-shaped. In the center of the gear box was a 200 millimeter opening to accompdate a gear shaft. In the pointed end of the box was an opening 100 millimeters in diameter and 100 millimeters in depth. The outer wall of the gear box was threaded at 100 millimeter intervals. The chain-driven wheels produced were approximately 80 centimeters in diameter, and the tooth rim was 100 millimeters in width, with teeth spaced every 80 millimeters. The wheels themselves had eight spokes which were approximately 60 milli-meters thick. The bore of the hub of the wheel was 100 millimeters in diameter. Monthly quotas of 3,600 wheels were mot.
- 8. One source was told at antifa school that the daily production of tanks was sixty. Repairs were made on an unknown quantity of T-34 and JS tanks, ***

 The tanks observed had six small rollers. All edges of the superstructure were rounded off. The tanks mounted an AA machine gun of approximately 20 millimeters and a long-barrelled gun of unknown caliber and carried a crew of four. The tanks were larger than T-34s.

Comment:

Two separate sketches of the plant are submitted because of conflicting information provided by sources,

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25X1A

Comment:

The actual functions of the tank assembly shop as sompared with those of the main tank shop were not available.

2\$X1A ***

Comment:

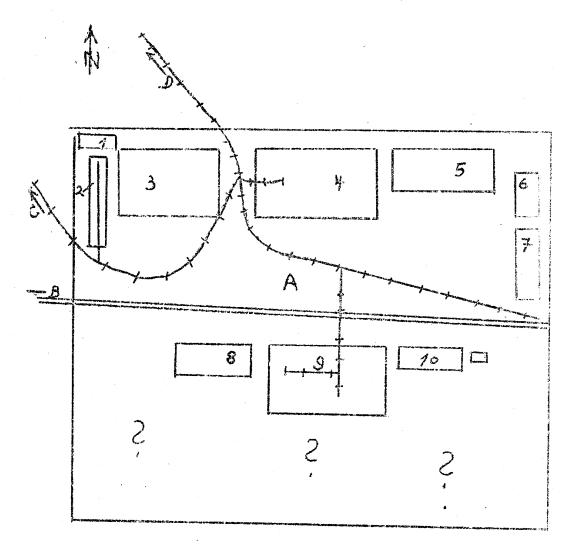
One source stated that, in his opinion, the deviets exaggerated the tank production figures. He believed that fifty percent of the tanks at the plant were under repair for he remembers having seen tank transports entering the plant.

2 Annexes: l_s) Kirov Tenk and Tractor lant, Chelyabinsk

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Kirov Tank and Tractor Plant, Chelyabinsk



Legend:

- Kirov Plant

 - Garage for motor vehicles, 150x60 meters
 Material depot, 300x60 meters, tractor and tank components
 Tank workshop, 500x100 meters
 Tractor workshop, 600x100 meters
 Foundry, 400x80 meters
 Sawmill
 Sawmill

 - Sawmill
 - Material depot
 - Open-hearth plant
 - 10 Administration
- Road to Chelyabinsk
- Double-track railroad line to Chelyabinsk station Single-track railroad line to Chelyabinsk station

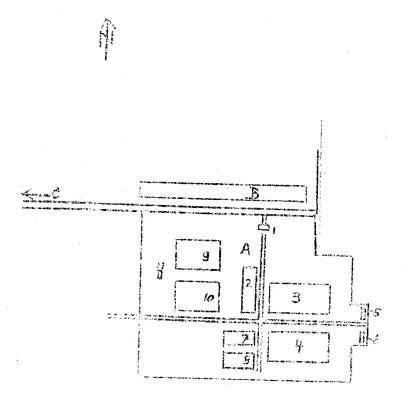
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Annex 2

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Kinox Tark and Tractor Plant Chalysbinsk



A Riccy Flace.

1 Administration
2 Lathe stop
3 Workshop for tractor builting
4 Foundry
6 Motor vehicle garages
7 Carpentry
10 Workshops for tank repair
11 Lifting platform
5 Settlement
6 Road to Chalyabinsk
11 To power station, about 1 bn

CONDENSATION.

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			3.		nen working in two, sometimes the very difficult to estimate the	
			4.	Production: Chassis	frames, rims, springs, ground	plates for airfields.
2	X1	ΙA		Comment:		
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				1 Annex: CHELYABIES	t is considered valuable, K "KPSIS" Motor Vehicle Apare I TION SECRET-CONTROL/US OF TOTAL	Parts Plant S ONLY

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Legend to Annex:

- 1 Pressing section and forge, 200 x 600 feet and very high, steel structure walled up with slag stones.
- 2 Main administration building
- 3 Rim section, 75 x240 x 600 feet, same type of structure as No 1, also production of gas generators
- 4 Oil bunker
- 5 Foundations for additions, construction work was stopped in 1945.
- 6 Spring section, 60 x 120 x 300 feet, same type of structure as No 1
- 7 Garage, 90 x 200 feet
- 8 Various workshops, 20 x 120 x 300 feet, same type of structure as No 1
- 9 Storage sites
- 10 Storage shed
- 11 Foundations for additions, construction work was stopped in 1945
- 12 Concrete factory (working place of source)
- 13 and 14 Guardhouses
- 15 Sheds, cantonment buildings and cabbage cellar
- 16 Direction of PW Camp No 7606, which is 1,500 feet apart.

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	1.	Location: Chelyabin					(61 ⁰ 25°	E/55 0 1	O'N)	
	2.	Plant ins	king depa	artment	which	new on	mposed	of the	follow	ing

- 2. Plant instellations: Source knew only the 600x300-foot metal-working department which is composed of the following sub-departments: Sizing section, pressing department, forge, hardening section, punching section, and subsidiary departments. The shop had three house tracks and three mobile cranes with a hoisting capacity of 25 tons each (for sketch of this workshop see Annex, sketch No.1).
- 3. Work force: A total of 2,000 Soviets and 300 PWs.
- Hamber of the production: Chassis frames, front axles, crankshafts, camshafts, valves, oilpans, cans, special plates for airfields. The production of such plates was increased until it accounted for about half of the plant output toward the end of the reporting period. For sketch of a plate, see Annex, sketch No. 2.

Comment:

- a. The existance of the plant was reported several times. It was called both a "Runway Matting Plant", and an "Automobile Accessories Plant".
- b. The workshop described in detail by source of this report is the plant main production shop.
- c. The report is valuable for comparison with previous information. Of special interest is the form of the "special plates for runways" as reproduced in sketch No. 2. These plates, the production of which was increased recently, are used for the construction of special runways.
- l Annex: "KPSIS" Motor Vehicle Farts Plant in CHELYABINSK.

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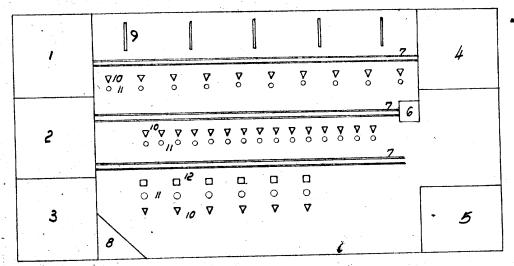
Legand to Annex:

- 1. Can shop
- 2. Test department
- 3. "ashing room
- 4. Section equipped with "Cincinnati" shears
- 5. Sizing section
- 6. Large hydraulic hammer for the treating of crankshafts
- 7. Craneways
- 8. Test station, testing of Brinell hardness
- 9. Toledo presses
- 10. Annealing furneces
- 11. Steam hammers
- 12. Jolting machines.

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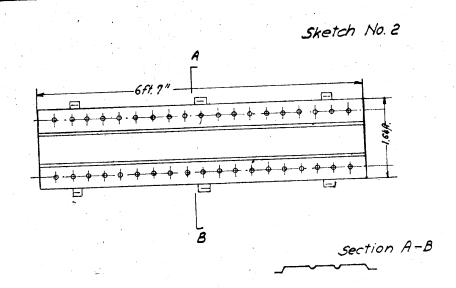
"KPSIS" Motor Vehicle Parts Plant in CHELYABINSK

Sketch No.1



scale |: 12,500

Legend: See report



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SOURCE		25X1X

- on and Steelworks were in the southwestern part of Asha (55°00'N/ 57018 E) Chelyabinsk Oblast, north of the railroad station of the main railroad line. There were spur tracks leading to the main railroad line. This was an old plant which had some extremely old installations. The date 1916 was inscribed on one snoke stack. Only the rolling mill and a slag concrete factory were new structures. The construction of the rolling mill allegedly started in 1940 but work on this project was suspended during the war and was not completed until 1948. *
- 2. The plant comprised a blast furnace department, an open-hearth steel department, a rolling mill department, a gas producer installation, a power plant, and several auxiliary and secondary departments. The plant was about 2 km long. Power was supplied by a plant-owned power station. **
- 3. The plant produced about 90,000 tons of pig iron and 70,000 tons of openhearth steel annually. The plant has also presumably produced rolled material since the completion of the rolling mill in 1748. Mowever, since sources left the plant in 1948, no information was available as to the amount and type of rolled materials produced. ***
- 4. The number of workers per shift was reported to be 800 to 1,000. Work was done in three C-hour shifts. In 1948, the following number of PVs worked in this plant: 120 in coal unloading and in the gas producer department, 27 in the open-hearth steel department, 45 in the blast furnace department and 12 specialists assigned to the construction of the rolling mill. The PAs worked in one shif only. The plant was surr unded by a wooden fence on the north, west and east sides and was guarded by civilian plant police.

Comment. For location sketch of the plant, see Annex 1. This sketch is based on a map of October 1940, scale 1:1,00,000, and on information from sources. A Soviet source stated that the plant was on the Asha River. 425 meters above the junction of the Sim River.

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Comment. For details on the layout and equipment of the plant, see Annex 2, based on information from sources.

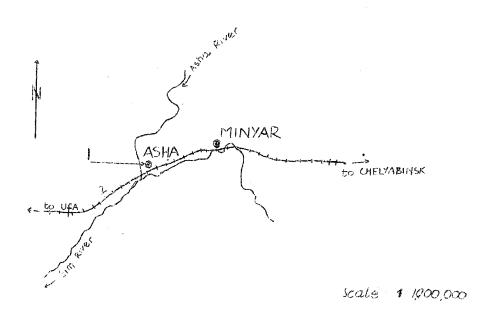
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Comment. According to previous information, the plant was built between 1896 and 1900 as a pig iron producing plant. The rich wood reserves near the Asha River and the pig iron deposits of the Bakal district provided the raw materials. Before World War I there were two blast furnaces with an annual capacity of 30,000 tons of pig iron each, and three open-hearth furnaces with a total annual capacity of about 40,000 tons. A large percentage of the pig iron and steel was shipped in ingots and as castings to the Minyar (55°04°N/57°34°E) Steelworks for further processing, the plant was recently modernized and in the

future will further process the pig iron and steel it produces.

25X1X

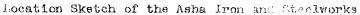
Location Sketch of the Asha Iron and Steelworks

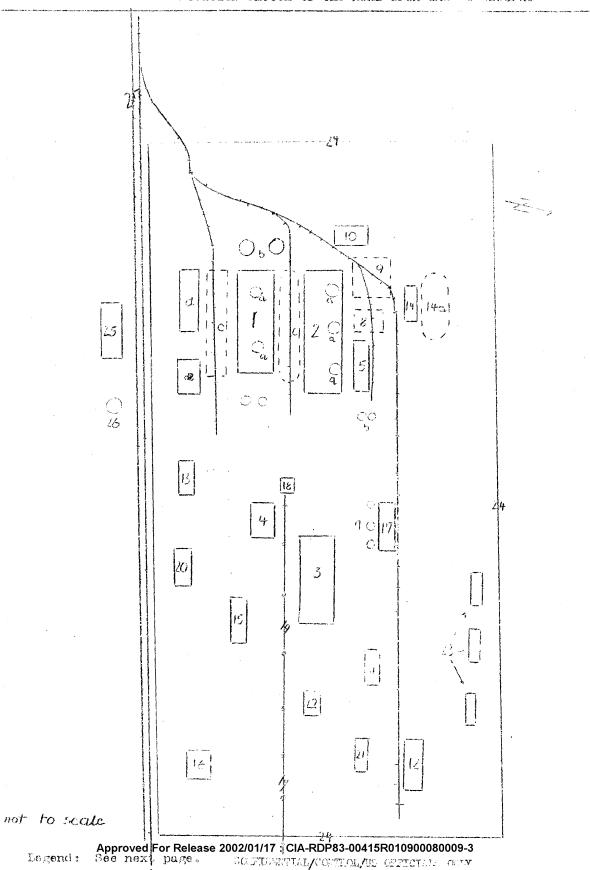


Lagend:

- 1. Asha Iron and Steelworks.
- 2. Double-track main railroad line.

Annex 2 ... 1 ...





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Annex 2

Legend:

- 1. Blast furnace department.
 - Two charcoal-fired blast furnaces with a total capacity of 300 to 350 cubic meters and an annual output of 80,000 to 90,000 tons of pig iron at a utilization degree (Ausnutzungsgrad) of 1,20. The furnaces were charged every four hours by a cable railway (Seilbahn). The charge consisted of charcoal, supplied by the local charcoal plant; iron ore, from the Bakal district, limefrom nearby quarries; scrap; limestone; and manganese. According to one source, 16 trucks of ore, 4 trucks of scrap, 2 trucks of limestone, and 18 trucks of coke were used for one charge. In addition to charcoal, coke was allegedly also used for charging the blast furnaces. The furnaces were tapped three times a day. About one third of the pig iron produced was processed in the plant-owned steelworks, and two thirds were shipped in ingot form to outside plants.
 - b. Hotblast stoves.
 - c. Ore dump.
 - d。 Pig iron foundry。
 - e. Compressor installation, used in connection with the hotblast stoves.
- 2. Open-hearth steel department equipped with 3 open-hearth furnaces (a) having capacities of 25 tons, 35 tons, and 15 to 50 tons respectively. They were fired with coal-gas and also with massut. Hanganese was added to the liquid iron and, according to one source, nickel was also added. The annual output was 65,000 to 70,000 tons in 1948. Ingot steel and steel castings were produced.
- 3. Rolling mill.
- 4. Power plant, equipped with four coal-fired boilers and 4 turbines, operated by water from the Sim River through an underground caral. The power plant supplied to town as well as the metallurgical plant.
- 5. Cas producer installation, equipped with 12 furnaces to produce coal-gas. Ten of these furnaces were constantly in operation, in rotation, while slack was being cleaned from the other two. Each furnace was refilled by a coal lift every 15 minutes. On top of the furnaces there was a pipeline, 60 to 70 cm in diameter, leading to the open-hearth steel department. When there was not sufficient gas pressure to fire the open-hearth furnaces, massut was used as additional fuel. Part of the produced gas was piped into gas tanks through pipelines 30 cm in diameter. According to one source, each furnace consumed 6 to 8 cubic meters of coal in one 8-hour shift.
- 6. Two gas tanks.
- 7. Oil tanks.
- 8. Coal dump.
- 9. Scrap dump.
- 10. Hanganese ore dump.
- 11. Spare parts warehouse.
- 12. Mechanical repair department, equipped with 15 ordinary lathes, 3 turret lathes, 2 milling machines, 8 multiple spindle drilling machines, and 2 shaping machines. This department did plant repair work only.

Annex 2 1

- 13. Fitting shop (Schlosserei) and forge. One source, a blacksmith by profession, who worked in the forge for 8 months, stated that it was a boiler forge. A welding shop was housed in the same building.
- 114. Sawmill. According to one source it had only one saw frame. The mill produced for plant requirements.
- 14a. Wood dump.
- 15. Pattern making shop. This installation was reported by only one source, a carpenter, who was employed in this shop.
- 16. Slag block factory, operated for plant requirements.
- 17. Brickyard.
- 16. Limestone crushing plant.
- 19. Cable railway used to convoy material to the crushing plant.
- 20. Administration building.
- 21. Ration supply depot.
- 22. Kitchen.
- 23. Warehouses.
- 24. Fence.
- 25. Railroad station.
- 26. Water tower.
- 27. Double-track main railroad line.

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- The Metallurgical Plant in Chelyabinsk (55°10°N/61°25'E), Chelyabinsk Oblast, was 16 to 18 km northeast of the town on the eastern bank of the Mas River. The large Ssozgorod residential settlement was built about 1,200 to 1,500 meters west or soutwest of the plant. According to Soviet workers, it was planned to develop this settlement into a completely new suburb. The entire industrial complex of this area was called "Bakal". The metallurgical plant was generally called "Letalzaved". The number of this plant was not known. The administration building and certain railroad cars displayed the firm's mark which consisted of the three letters P.Z within a black circle. (1)
- 2. One source stated that in 1946, the coking plant consisted of two batteries of 60 to 62 ovens each, which were housed in two wings adjoining the central building housing the coal distributing installation. There were two smokestacks nearby. The plant was said to be a modern American type plant. The incoming coal shipments were about 5,000 tons daily. Overhead gas pipes, 1.5 to 2 meters (sic) in diameter, lef from the coking plant to the various installations of the plant. There were two large and several small gas and oil tanks southeast of the coking plant. Another source reported that a third batterye with 60 to 62 evens was completed in 1948 and was put into operation on 1 May 1949. The third smokestack was built by a new mothod. (2)
- 3. According to Soviet civilian workers, the blast furnace plant was built during the war. There were two blast furneres, each about 20 meters high and 6 to 7 meters in diameter. Each blast furnece was charged 28 times during an eight-hour shift. Two tappings were made at irregular intervals during the same poriod. The molten iron was collected in special buckets. Two buckets were used for each furnace during each tapping. In the foundry, the molten iron was poured into molds, $400 \times 200 \times 200$ rm, which were rigidly fixed on a conveyor belt. The glowing ingots were loaded on railrost cars at the end of the conveyor belt and were cooled in a large shower installation. The blast furnaces were reportedly equipped with inclined electric hoist. No preparations for the construction of an additional blast furnace were observed. (3)
- The plant-owned electric power static; covered an area of about 250 \times 100 meters and was surrounded by a fence. It camprised a new boiler house, an old boiler house, a compressor station, a coal-lump and some subsidiary buildings. The old

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boiler house was equipped with four coal-fired horizontal boilers. Boiler Wo 4 was put into operation in January 1949. The new boiler house, equipped with three vertical-tube boilers, was not in operation as of the end of 1949. The electric power station was equipped with three turbines, including one modern American steam turbine which was installed in the winter of 1948 and 1949. There were high-voltage lines carried on wooden poles within the metallurgical plant. One source reported that a long-distance transmission line, which was carried on wooden poles within the plant and on steel towers outside the plant, came from Chelyabinsk to the electric power plant, although this same source stated that the plant-owned power station supplied the entire metallurgical plant with current and steam. The capacity of the power plant was not known but it was reported that power failures were very rare. There were four large sheet-metal smokostacks on the roof of the boiler house which were visible at a great distance, (4)

- According to one source, the open-hearth department covered an area of 300 x 150 meters. Another source estimated that the plant area was only 150 x 50 meters. The main building of the open-hearth department, which was said to have been the largest building in the entire plant prior to the construction of the new rolling mill, was equipped with 5 or 6 open-hearth furnaces as of October 1949. One source stated that a total of ten furnaces were scheduled to be installed in this building. Two sources reported that there were only two furnaces in operation as of April 1948 but that by November 1949, five furnaces were in operation. On the west side of the main building were five smokestacks which were 60 to 80 meters high.
- 6. One source reported that there was an electric steel department housed in a square building about 100 x 100 x 20 meters and equipped with five spur tracks. This department cast steel ingots which were about 1 meter long, 350 sq mm on top and 200 sq mm at the base. A gas line, 4 meters above the ground, led to this department. Another source reported that there was a steel foundry, 125 x 60 meters, equipped with four electric furnaces and several sidings. (5)
- 7. One source, who worked in the plant as a construction worker in 1949, stated the the old rolling mill was built in 1943. This date was engraved on a stone over the entrance. This rolling mill was housed in a steel and brick structure, about 200 x 40 x 20 meters, with a steel roof and with skylights. There was a brick smokestack, about 60 meters high, on the eastern side of the building. Source had no information as to the equipment of this rolling mill. A gas pipe, h meters above ground, led to this building. Source frequently obser ed railroad cars leaving the mill loaded with round iron and double-T girders of various sizes. (6)
- 8. According to one source, the new rolling mill was built on a fenced-in area of about 1,000 x 200 meters. This was a steel structure, completed in October 1949, with two workshop sections arranged at right angles. The north-south section was about 500 meters long and the east-west section was 200 meters long. This was the largest building of the plant. Another source stated that the new rolling mill was about 1,500 meters long and 300 meters wide and was still under construction in November 1949. A third source reported that, according to Soviet foremen, the new rolling mill was to be equipped with a rolling mill train 750 meters long and that machinery from a German rolling mill was to be installed. According to this source, the building was a steel structure and was still under construction in August 1949. (7)

3

9. One source estimated that the plant employed 3,000 to 4,000 workers per shift. Near the plant were two male convict camps and one female convict camp with a total of about 4,000 convicts in the three camps. Part of these convicts worked in the metallurgical plant. Another source stated that all the 1,300 inmates of PN camp 7623/29 worked on the reconstruction of the plant as well as on the construction of the settlement and on road building. Work was done in three shifts. No information was available as to the production figures for this plant. (8)

25X1A Comments.

(1) For location sketch of this plant, see Annex 1. This location agrees with previous information and is believed to be correct. Ssozgorod is an abbreviation of Ssotsialicheski Gorod (Cocialist Town). The name "Bakal" refers to the town of Bakal, Chelyabinsk Oblast. The ores treated in the metallurgical plant were supplied from Bakal. For layout sketches of the plant, see Annexes 2, 3, 4 and 5. Annex 2 is based on information supplied by one PW who was a mechanical engineer and who worked in this plant as a construction worker from 1945 until October 1949 and later worked as an engineer in the power plant and other installations of this plant as well as working in the Typlopribor Plant.

as a construction worker. This source apparently left the plant prior to the alleged construction of the third battery of ovens in the coking plant. A who worked in 25X1X the plant as a laborer between February 1947 and June 1948. Annex 5 is based on information provided by a PW who worked in the plant as a laborer from 1946 to June 1948 and later worked on road construction within the plant until November 1949.

(2) The daily consumption of 5,000 tons of coal by only the two batteries of ovens in the coking plant appears to be exaggerated. However, with three batteries of ovens in operation, the coking plant would probably consume more than 5,000 tons of coal.

(3) It is known from previous reports and from Soviet press reports that two blast furnaces with a capacity of 1,300 cubic meters each were installed in this plant during the war. A third blast furnace was scheduled to be put into operation by the end of 1950. No information as to the capacity of this furnace has been obtained. A Soviet press report stated that, in the early part of 1969, the output of the two blast furnaces reached a utilization coefficient of 1,10 at a standard of 1,24, which meant that each 1,10 cubic meter of furnace capacity yielded 1 metric ton of pig iron within 24 hours.

(h) No definite information has yet been obtained as to the equipment of the two boiler houses. It is possible that in the future the new boiler-house will be used to produce electricity and the old boilerhouse to supply hot steam for the plant.

(5) According to previous reports, the capacity of the electric steel furnaces is 30 metric tons each, and the total annual production is 150,000 tons. All four furnaces were put into operation during the war, after having been moved from the electric steel plant in Neginsk (55050°N/38°28°M). district of Moscow.

(6) According to previous information, this mill was equipped with three mill trains with rollers having diameters of 800 mm, 150 mm and 300 mm respectively. The annual output of this rolling mill was reported to be 100,000 tons of rolled products.

(7) From the descriptions given by sources, it appears that the new relling mill is the blooming mill which was scheduled to be built under the original plant of this plant.

(8) Based on available information, it is estimated that the entire metallurgical plant would produce annually 650,000 tons of pig iron with two

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blast furnaces, 700,000 tons of open-hearth steel with five open-hearth furnaces, 150,000 tons of electric steel, 100,000 tons of rolled products in the old rolling mill only, and 1,000,000 tons of coke.

5 Annexes: Five sketches on ditto.

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Annex 2.

... 2 ...

Legend:

- A. Metallurgical plant at Chelyabinsk.
 - 1. Coking plant with three batteries of ovens.
 - 2. Blast-furnace department with two blast furnaces.
 - 3. Plant-owned electric power station, 250 x 100 meters surrounded by a fence.
 - a. New boilerhouse, not yet in operation.
 - b, Old boilerhouse, in operation.
 - c. Compressor station.
 - d. Coal dump.
 - 4. Open-hearth plant with 5 or 6 open-hearth furnaces.
 - 5. Concrete and asphalt plant roads, 6 to 8 meters wide.
 - 6. Old rolling mill.
 - 7. New rolling mill under construction, building site 1,000 \times 200 meters.
 - 8. Lime processing department.
 - 9. Track system with about 10 railroad tracks.
 - 10. Railroad for slag removal. The tracks were on an embankment.
- B. PW Camp 102/29, number later changed to 7623/29.
- C. Former PW Camp 68/1, now a civilian camp.
- D. Soviet convict camp.
- E. Typlopribor plant.
- F. FSU-Fabrichno Savedskoye Uchilishche (Plant trade school).
- G. Brickfactory, Ogne Upory.
- H. Streetcar line from Chelyabinsk.

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Annex 3 / - 2 -

Legend:

- 1. Coking plant:
 - a. Central building with coal distribution installation.
 - b. Two smokestacks.
 - c. Two batteries of ovens.
 - d. Two large and some small gas and oil tanks.
 - e. Coal dump.
 - f. Coal conveying machinery.
- 2. Blast-furnace plant with two blast furnaces.
- 3. Crane installation with American made traveling crane.
- i. Electric power plant.
- 5. Pefrigerating plant.
- 6. Two cooling towers.
- 7. Brick factory.
- 8. Spur tracks.

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Annex h

Legend:

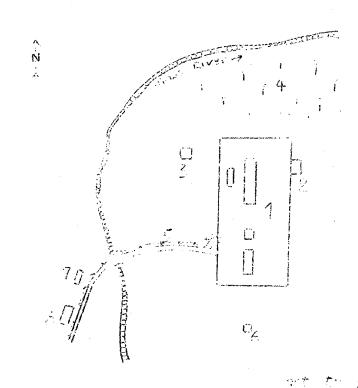
- 1. Coking plant with three smokestacks.
- Bunker area, about 1 km long with twelve pocketshaped bunkers which were 5 meters deep.
- 3. Two blast furnaces.
- h. Two stone buildings, two-story structures.
- 5. New four-story workshop, not yet in operation.
- 6. Administration building.
- 7. Warehouse.
- 8. Kitchen.
- 9. Cooling installation, also swimming pool.
- 10. Foundry.
- 11. Railroad sidings.

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Annex 5

Legend:

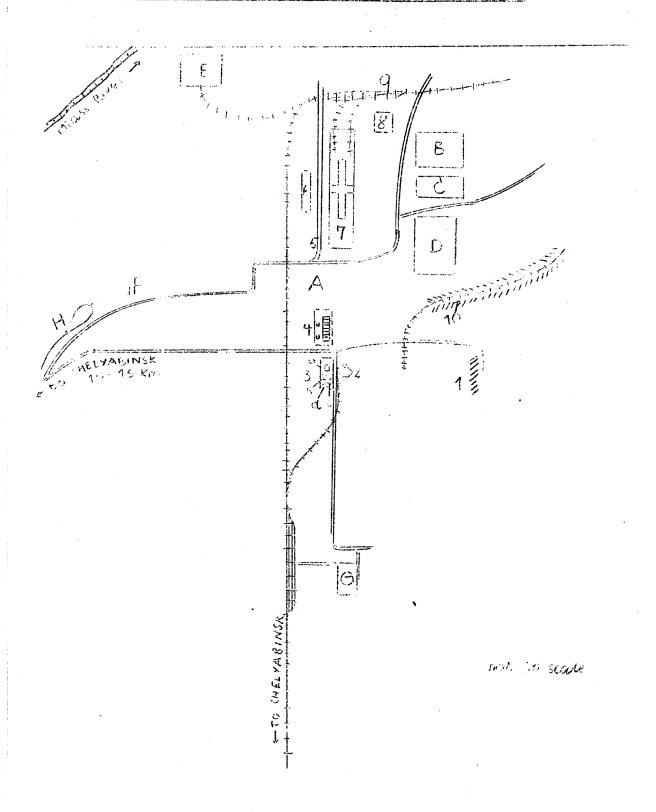
- A. Metallurgical Plant at Chelyabinsk.
 - 1. Ore dump.
 - 2. Blast furnace plant with (a) two blast furnaces.
 - 3. Electric power plant.
 - h. Open-hearth plant, the skeleton of which was completed in 1946. Five furnaces were in operation by the end of 1949.
 - a. Five smokestacks.
 - b. Five furnaces.
 - 5. Warehouse.
 - From foundry, 150 x 65 meters, with (a) two cupola furnaces and one small furnace for non-ferrous metal casting.
 - 7. Machine shop, 150 x 65 x 25 meters, equipped with numerous metalworking machines, including turning and boring machines.
 - 8. Administration building, 20 x 10 x 25 meters, adjoining the machine shop.
 - 9. Electrical department, 70 x 25 x 20 meters, building completed but machinery not yet installed. (Probably a department for the installation and maintenance of the electrical equipment of the plant.)
 - 10. Forge, 70 x 25 x 20 meters.
 - 11. Steel foundry, 125 x 60 meters, with four electric furnaces and several sidings.
 - 12. Heating plant (Thermische Abteilung), 50 x 25 meters, equipment not known.
 - 13. Old rolling mill, 70 x 25 meters, equipment not known.
 - 14. New rolling mill under construction, building site 1,500 x 300 meters.
 - 15. Lime processing plant with three lime kilns.
 - 16. Gas mains.
 - 17. Steam pipeline.
 - 18. Sentry.
- B. Ssozgorod residential settlement,
- C. Soviet convict camp.
- D. Civilian settlement.
- E. PN Camp 7623 with 13 huts.



Legend:

- Metallurgical Flant.
 PW Camp 102/29, later renumbered 7623/29.
 Teplopribor Plant. 2.
- 3.
- 5.
- Wooded range of hills.
 Road and streetcar track to Chelyabinsk.
 Brick factory which produces refractory brick.
 Galvanizing plant. 6.
- 7.
- 8.
- Paint shop.
 Airfield, situated on hill.

Layout Skotch of the motal lurgical Plant at Chelyabinsk, as of October 1949.

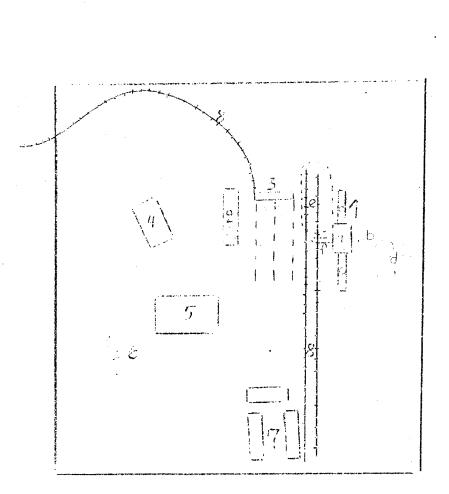


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Layout Sketch of the Southern Section of the Lettliurgical Flant at Chelyabinsk



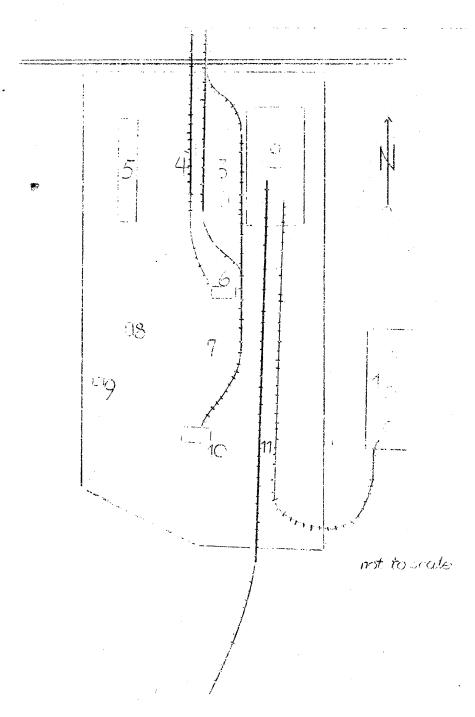
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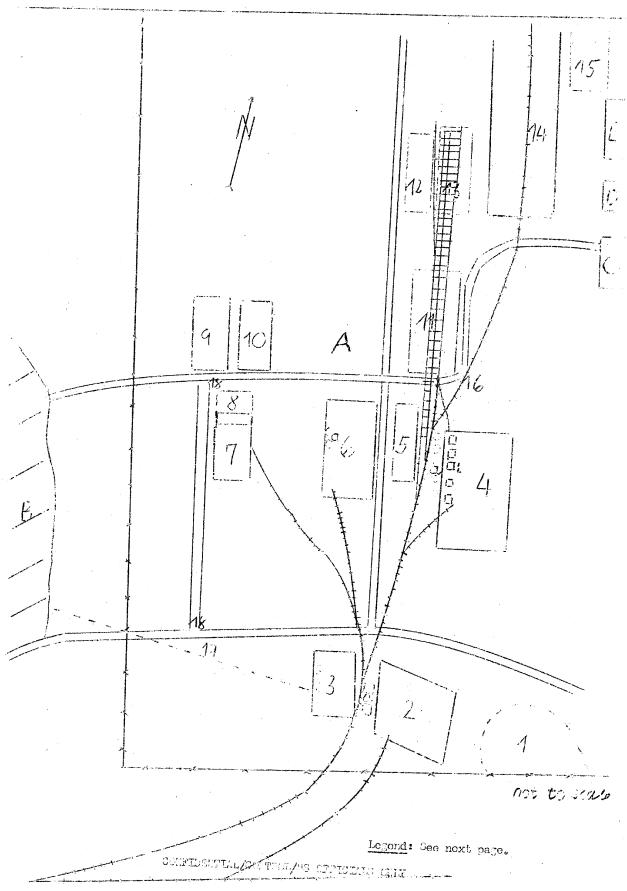
Layour Match of the Southern Section of the Metallurgical Plant at Chelyabinsk as of June 1948.



Legend: See next page.

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Northern Section of the Metallurgical Plant at Chelyabinsk as of Jovember 1949.



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SOURCE

1. Location :

The expansion to the power plant in Mizel (57°38'E/59°04'N), Molotov Oblast, is southwest of the main railroad station, east of the railroad line to Beretsniki.

2. Installations:

The plant covers an area of about 225 x 103 meters. The power plant has existed for a long time but his been expanded since the Spring of 1947. This work was not completed in Narch 1949. The buildings are in a good condition. The plant did not have railroad connection but was to get one in 1949. The approach road is paved. The new machinery which was scheduled to be installed in the turbine house in 1949 was expected to arrive from Germany (Soviet statement). The equipment for the transformer station was also of German origin (see Annex).

3. Work force :

One hundred PWs and 15 civilians were assigned to construction work.

4. Capacity :

Unknown.

25X1A

Comment:

a. The new section of the power plant in Kizel, bordering on the old power plant on the north, was mentioned for the first time in the town sketch furnished by another source. *
The data or the location of the plant as contained in this report

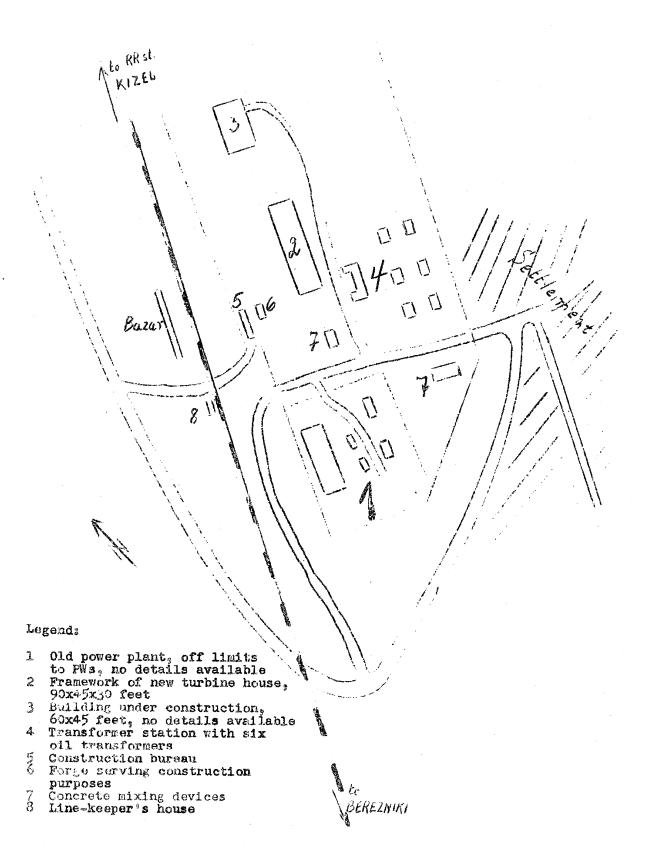
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is in agreement with the town sketch. In order to eliminate mistakes relative to the statement "east of the reliroad line to Beretsniki" reference is made to the fact that this line, when leaving the main reliroad station of Kizel, at first runs in a southern direction then turns north after a loop to the west.

- b. The new section apparently is a considerable expansion of the power plant. When it starts production the capacity of the power plant will be greatly increased. The old power plant had a capacity of 100,000 kw/h.
- c. The reported expansion of the plant requires confirmation.
- 1 Apnex: Layout Sketch of the Kizel Power Plant.

Layout Sketch of the Kizel Power Plant



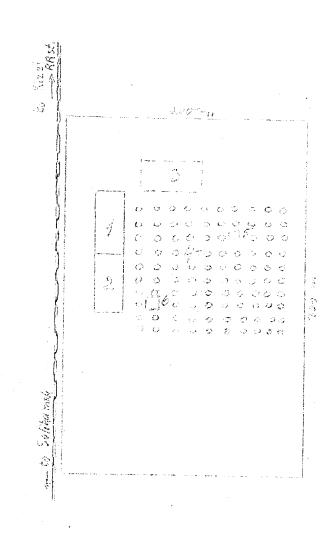
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	Location:
	One and a half km southwest of the town center of Hizel (57038'E/59004'N), Molotov Oblast, northeast of the old power plant and east of the railroad line to Solikamsk.
2.	Plant installations:
	Start of construction: Fall of 1948. For status in Nevember 1949 see Legend on the attached sketch.
3.,	lork force:
	One hundred and twenty PWs and 10 to 20 Soviets working on the construction.
25X1A	Comment:
	a. Previously reported to be a power plant * rather than a transformer station; the new installation under construction needs clarification.
	b. This report gives a good survey on the present stage of construction. Although agreeing with previous information ** on the two large buildings under construction, the actual plant layout cannot be determined unless further information is received.
	1 onex: New Transformer Plant under Construction at the Power Plant of Kizel.
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Her Grassformer Plant Under Construction at the Power Plant of Kizel



Induction to

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- without equipment
 Exhibiting same as No. 1 above still without root
 Exercisions for a third building of presumably the same size
 from sformer station, outdoors insvallation, 100:100 maters.
- sant sasel masts, l'é motors high, with two aras, placed at ad netero distance
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÷		The paper mill and bank-note printing house are located in the southern section of KRASNCKAESK (55045'E/58'08'N), Molotov Oblast, on the northern bank of the Kama River.	
	2,	Plant installations:	
		The factory was constructed in approximately the early nineteen-thirties. A new sottlement northwest of the plant was under construction during the period of observation. The plant consists of two separate sections, the paper mill and the bank-note printing shop, the latter also being surrounced by a high wall. All machiner, was of German origin. Electric power is supplied by the power plant north of the factory. Both plant sections have railroad spur tracks. For plant layout see Annex.	
	3.	mork force:	
		About 3,000, mostly women. An increasing number of workers have been employed since 1947.	
	L.	Production:	
		50 percent of production was paper for the bank-note printing house, the remainder copy-books, pads and writing paper, so far as could be observed by source.	
25X1A		Comment:	
	•	a. The plant layout of the KRASECKAESK Paper Combine reproduced on the attached sketch is considered to be probably true. The two reports on	

- this object previously transmitted were regarded as very incomplete.
- b. The cellulose and paper combine on the southeas ern town border of KHASH KAMSK, which has been known under the name of "Kama" since 1941, in clearly seen as being located between the town bolder and a large shunting station, south of a large power station.

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c. The so-called bank-note printing house was also reported by previous sources to be just west of the paper mill. No details on this factory have been received, hosever, as the factory area has been specially guarded and blocked.

1 Amex: KRASNCKAMSK Paper Mill and Bank-note Printing House.

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Legend to Annex:

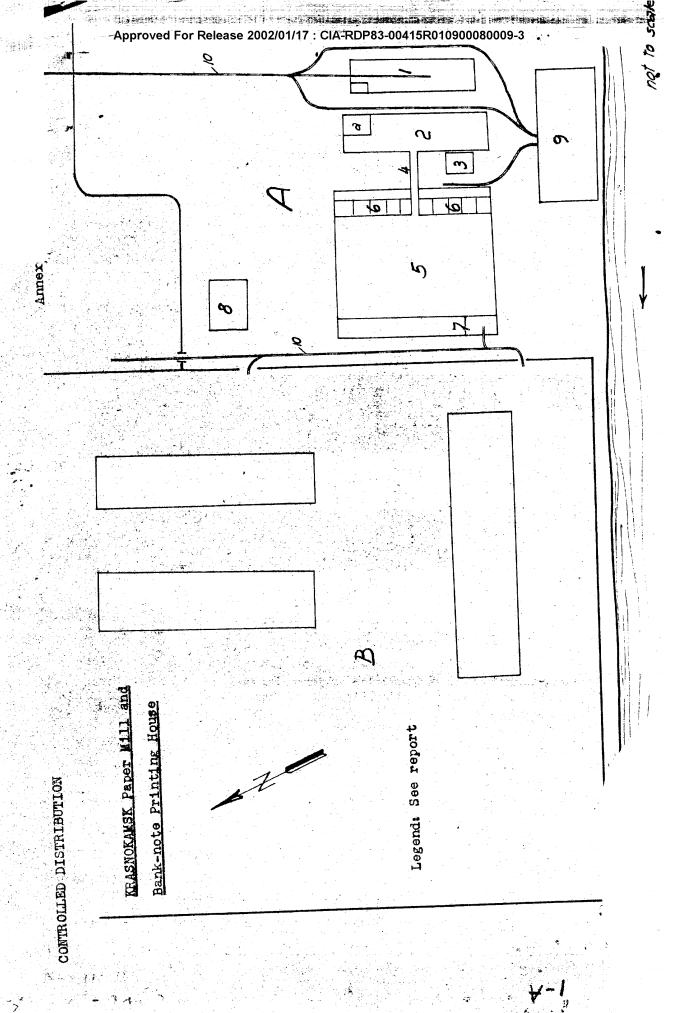
A Paper Mill

- 1 Wooden ore shed, 60 feet wide, with a capacity of seven to eight 60-ton carloads on the longitudinal sides. Storage of sulphur and iron ore. Crushing of sulphur and conveyance of sulphur and iron on an underground conveyor belt to the processing department.
- 2 Processing department, 70-foot wide brick building, vanited roof, somewhat longer than the one shed with two sulphur calcining furnaces (a).
- 3 Limekiln, about 120 feet high.
- 4 Conveyor gangway to the large workshop
- 5 Large paper processing department, three-story brick building 60 x 240 x 240 feet, with flat concrete roof and some skilights.
- 6 Gellulose chambers, each 15 x 20 feet, separated by thick concrete walls.
- 7 Bank-note storerocm
- 8 Administration building, three-story brick building
- 9 Wood wadhing plant (on the bank of the river), three story brick building, 120 fest long, large water basin for the washing up of the wood on ground floor.
- 10 Railroad spur tracks

B Bank-note printing house:

Source saw from outside only three large, white coated, three-story brick buildings, each several hundred feet long, with sentries posted on the roofs. Some cantenment buildings were also located in the area.

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SOURCE

1. Location:

Hertheast of Igumnovo (43°38° H/56°14° N), Gorki Oblast, about 36 km west of Gorki, north of railroad line and road Gorki-Moscow.

2. plant Installations:

- a. The Eulon Chemical Plant is comprised of two sections, the eastern one of which existed before 1939 and produces plexiglass.
 - b. The construction of the western section started in September 1947. Boilers from the Leuna plant in Lersoburg were installed here. The essential parts of this section were completed by the middle of 1949. After the first scheduled deadline on 1 May 1949 was not met for unknown reasons, operation was planned for late 1949.
 - c. The total length of the plant is about 32 km. Source did not obtain details on the eastern section. A railroad connection is available. Power was supplied through underground transmission lines by the power plant, located on the other side of the railroad line.

 For plant layout see innex.

3. Kork Force:

600 to 800 Pys and several hundred Loviet laborers working on the construction. Labor for the production had not arrived in July 1949 only a few, presumably foremen, were appointed to their future jobs.

4. Production:

The eastern plant section produces plexiglass. Source did not know any details on the intended production of the western section which

PLASSIFICATION COME IDENTIFIE CONTROL/US OF FIGURES ONLY

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was under construction. According to Pys statements, it was gasoline.

Comment:

a. The combined chemical plants in Dzerzhinsk are known from prever times. They are east of town, on both sides of the rail-road line to Torki. The limits of the individual plants were not definitely determined at the end of the war. To indicate the location, the sketch supplied by a previous source is transmitted as annex 2. This source reported on the power plant and also furnished a presumably correct diagrammatic survey of the arrangement of the individual installations.

Both sketches egree on the location of the Rulon plant.

- b. The fact that, in recent years, the plant was modernized by the installation of machinery from the German Leuna Plants, was known. New constructions are reported for the first time, a fact which makes report particularly valuable.
- e. The "old" plant section which source could not examine is reproduced on a German aericl photograph, dated July 1942. At that time the plant was designated No 148.
- 6. The very detailed data on the new plant section are still to be confirmed.
- s. A Prayda issue of the Suarer of 1949 stating that the plant sainly produced bulletproof safety class for the air armament industry confirms the reported production of the old factory.
- 2 Annexes: (1) Rulon Chemical Plant in Dzerzhinsk-Iguanovo (2) Chemical Combine Dzerzhinsk.

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COMPIDENTIAL-COMPROLVUS OFFICERALS ONLY 3/annex 1

Legend to ; nnex

Rulon Chemical Plant

- He partment No 108, 60x27 meters, equipped with two large boilers
- 2 per rtment no 112, 54x18 meters, distributor system. for the stem pipeline from the power plant
- 5 Department 40 105, 54x18 meters, poter station with transformers, compressors and switchboards. Like ring plant with square basins, insulated with asbestoe and peat slabs.
- 4 Department so 104, 36x13g meters with 30 meter high smoke-stack, probably boiler house; three furnaces were constructed here
- 5 Department No 102, 54x18x30 meters, equipped with four steel boilers in vertical position, purpose unknown
- 6 Department No 101, 72x36x37½ meters, six stories. The middle section is not roofed, the workshop is equipped with various kinds of boilers.
- 7 pumping station, connected to department No 101 and the boilers no thof the pumping station by above ground pinelines.
- 8 Four outdoor boilers, 4_g^2 meters, 7 meters in diameter. Two boilers are brick lined, all four boilers are separately forced in and surrounded by 1_g meter earthen wall.
- Wenty pumping points in a shed ith radiroud tracks goin; through. Thenty additional pumping points are on both sides of another radiroud line outdoors. Both spar tracks end shortly beyond the pumping points.
- le Building, purpose unknown
- Il Four boilers in vertical position, 4% meters high, 10 to 12 meters in diameter, constructed of five amount thick sheet metal, insulated with place wood, on stout concrete foundations: The area is surrounded by an earth wall, 1.8 meters high. Thrue parallel underground pipelines lead to No 13
- pumping station with several electric motors, presumably pumping station of No 9 above
- 13 About 16 boilers (source did not remember the exact number), each 3% meters high and 3% meters in diameter. The area was surrounded by a six feet high earth wall.

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CONFIDENTIAL-CONTROL/US COFFICULES ONLY 2/innex 1

- 14 Department No 103, 72x27x36 meters, five stories, All stories house various boilers
- Department No 106, 54x18 meters, equipped with three large boilers, 13g meters high end 6 meters in diameter (source worked on the construction). A surface pipeline leads from here to No 17.
- 16 Department No 118, 36x13.5 meters, pumping station for cooling water, equipped with several rotary pumps and on either side of the station one concreted basin, each 12x42x42 to 5 meters.
- Department No 119, cooling tower, about 36 meters high and 13½ meters in diameter with pipeline connection to department No 105 (item No 3), department No 166 (item No 15) and department No 118 (item No 16).

All plant departments are intercornected by underground pipelines, 3 to 13½ am in diameter. The above ground pipelines rest on iron pillars and are recorded on sketch (as far as source was able to recall them.)

- 18 area of the old plant
- 19 Pa Camp 110 7117/7
- B power plant
- C Yava Chemical Plant.

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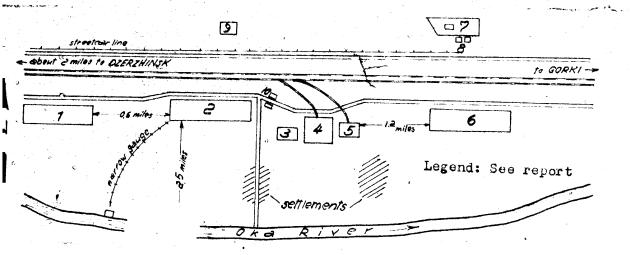
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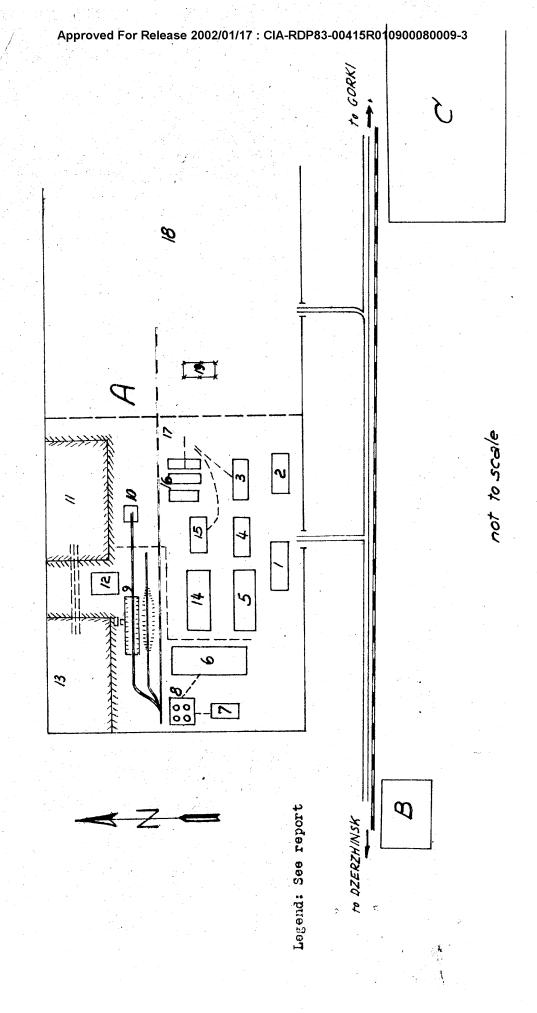
- 1 Kalimin Chemical Plant
- 3 stroi Chemical Plant
- 3 Oka Chemical Plant
- 4 power plant
- 5 stalmost Plant (presumably mechanical department of the power plant)
- 3 Yava Chemical Plant
- 7 Rulon Chemical Plant and Py camp
- 3 Sky scrapers
- 9 Large bakery
- lo pli camp.

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Ohemical Combine DZERZHITSK



"Rulon" Chemical Plant in DZEKZLINSK-IGUMNOVO



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Krasnokansk Oil Field: (58°05*N/55°36*E)

- 1. The Krasnokamsk (Molotov Oblast) oil field surrounds the entire town. There are oil derricks on open lots in the city area itself.
- 2. As the result of random drillings this district was opened in 1934, It was discovered before the war that this district had one of the richest deposits in the Ural area. The oil strata are very productive. Projuction is accomplished exclusively by pumping. Gushers were not tepoed. Drillings and production are complicated by the great depth of the cil strata, which is 3,400 meters below the ground. Only about one hundred derricks are said to have existed before the war. During the time of observation the number increased from about 800 to almost 1,5%. Larly in 1949 60 additional drilling and producing derricks mere under construction in the section close to the Kama River, lost of the derricks are wooden structures but the drilling implements are mainly modern rotary drilling units of American make. The quality of the crude oil is said to be excellent and to contain more than 40 percent light fractions. The district is developing rapidly. Promising oil fields have been discovered as far as the region around Severokamsk, also located on the Kama River. Pipe lines, about 30 cm in diameter, lead from the drilling sites to the refinery.

Krasnokumsk Refinery

3. The oil refinery is north of the town, close to the Kama River. It is a small refinery, operated on the principle of tube distillation. No details were available on the number of columns. No special gasoline refining or cracking installations were observed. A large number of tanks, for collecting the crude oil pumped through the main pipe lines to the refinery, and for storing the finished products, are in the refinery area. The tanks for finished products are about 8 to 10 meters

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in diameter and somewhat smaller in height.

4. The refinery has no power station, only a transformer station. Power is supplied from a plant south of the freight station. This power plant is equipped with machine installations, including several large crude oil turbines, which were dismantled in the Soviet Zone of Germany. The refinery has a large pump work station with several intermediary stations, and a large pipe line to the freight station through which the finished products are pumped. Tanks and filling I installations are also at the freight station. Only a part of the crude oil output is processed in the refinery. The remainder, as well as the finished products, are shipped away in oil tankers, and in tank cars. River landing sites and spur tracks, with adjacent tanks and filling stuipment, were provided for such shipping. A great number of tank cars were always seen at the railroad station. *

25X1A

Comment. The Arasnokansk refinery is known to be the refinery evacuated from Grozpy during the war. The total annual capacity was about 180,000 tens. There have been no reports on special installations such as gasoline purifying, lubricating-pil refining, or cracking. This is believed to be a simple distillation plant, where crude cil is only topped and fractionated before shipment.

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On the northwestern border of KRASNCKAMSK (55°45' E/58°09'N), Molotov Oblast.

Installations:

The power plant covers an area of 1,200x750 feet and is surrounded by a board fence. Its expansion was begun in 1946. A fifth boilar was installed in February 1947 and placed in operation in July 1948. Excavation work was under way in August 1948, and the foundations for a sixth boiler (a reserve boiler) were laid. A fifth turbine was installed at the same time. The plant has a sour track, its building are in a good condition (see Apper) spur track, its buildings are in a good condition. (see Annex).

- 3. Work Force: In 1948, 300 Soviets and 30 PMs.
- Cutoata

According to Soviets, the expansion of the power plant was to raise its power output to 100,000 kilowatts:

25X1A

Comment:

- a. Report fully confirmed and supplemented two previous reports on the important KRASNCKAMSK power plant.
- The attached sketch furnishes a good survey of the power plant and the surrounding industrial objects. Report, which agrees with the essential data of previous reports, is the best yet received, and its sketch can be considered factual.
- 1 Annex: Power Plant in KRASNOKAMSK

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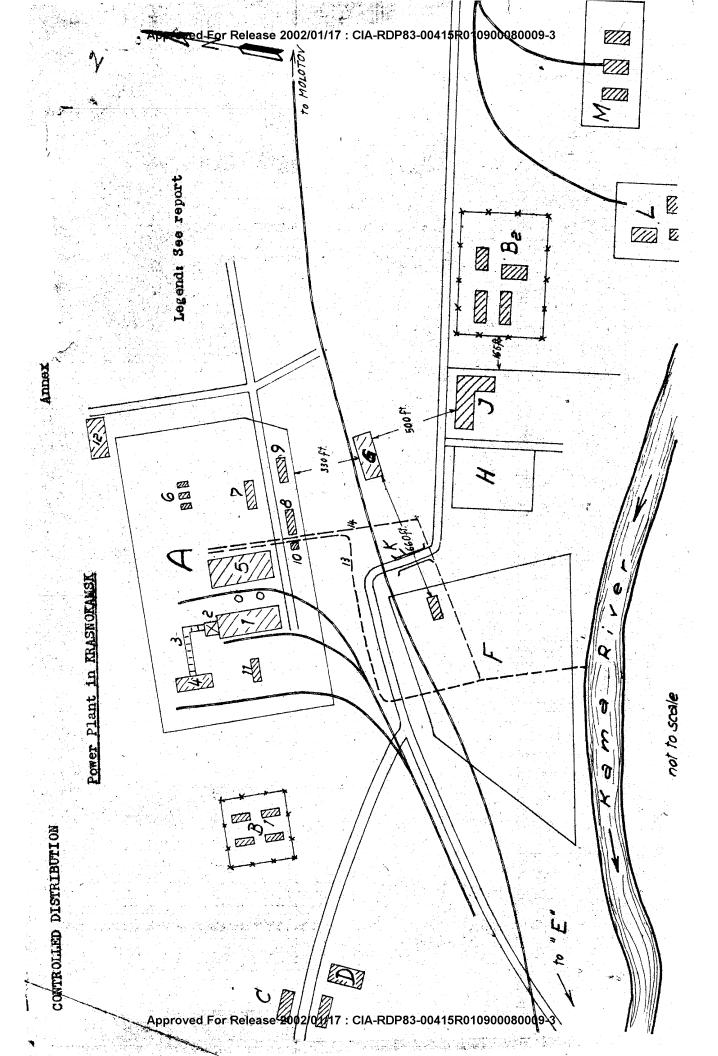
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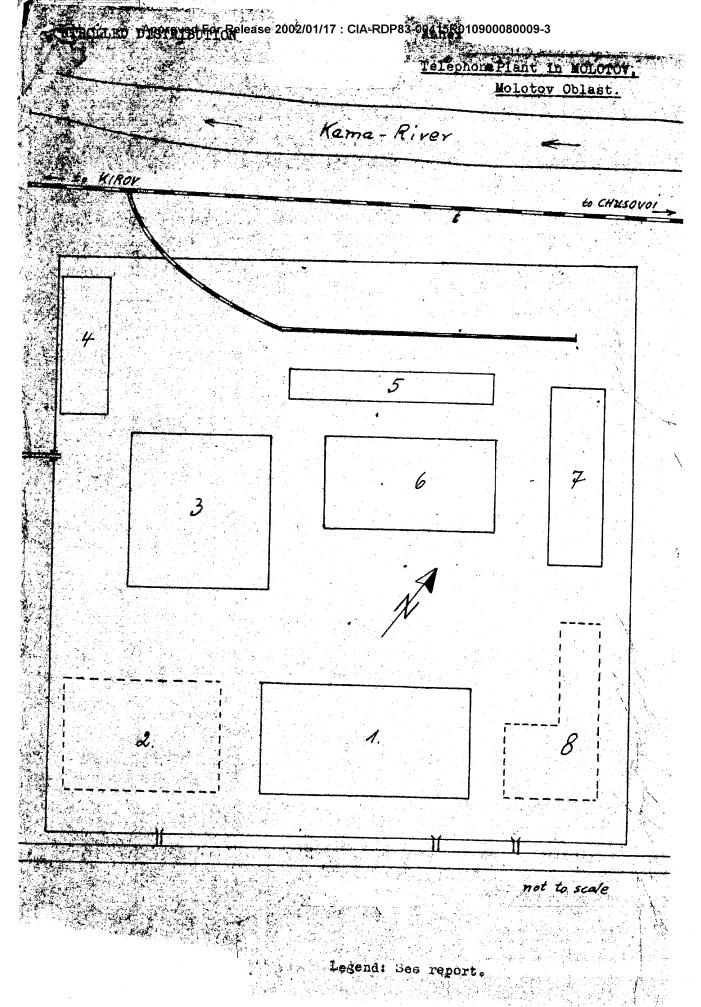
- A Power Plant
- l. Boiler house, 600x150x120 feet. Five coal crushing plants, two brick smoke stacks, 200 and 350 feet high
- 2 Coal hoist and coal crushing plant
- 3 Coal conveyer plant
- 4 Coal bins
- 5 Surbine house, 480x90x90 feet
- 6 Pransformer station
- 7 Hechanic' shop for repair work
- 8 Carage
- 9 bpace parts magazine
- 10 Porge
- 11 Hechanical workshop
- 12 oil pump with underground boilers, operating for the power plant
- 13 and 14 Pige lines from the Rama River to the power plant
- B PV Camps:
- 1 7207/8
- 2 7207/1
- C Dwelling blocks
- D (il dump
- E Harbor of LHASHOKAMSK
- F Faper mill
- G Railroad station of KRASMOKAHSK
- H Sieve and riddle factory
- I Iread factory
- K Road overpass
- L Sawmill
- M lime kiln

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	######################################	Telling of the	SAMPLE AND STREET
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	SCURCE		
	1.	location:	
		the telephone manufacturing plant, designated Zavod No 629 i located in the northwestern part of MCLCTOV, Molotov Oblast (55°15' E/58°01' N), about 600 feet from the Kama River. The railroad line to KIROV is between the plant and the Kama River.	3
	2.,	Plant Installations:	
		The plant consists of brick buildings of which two were stil under construction.	1
		A Railroad connection was available. Power was supplied be power station located outside the plant. For plant layout stances.	у а е е
	3.	Work Force:	
		About 1,000 Soviets and 90 PWs.	
	4,	Production:	
		Field telephones, occasionally regular telephones.	
25X1A		Comment:	
		a. The plant was described in two previous reports. A sket attacked to one of these gave the location in detail.	ch

b. The plant layout as shown or the attached sketch corresponds with the information forwarded with the sketch of an earlier report. The legen to the attached sketch furnishes specific deteils on the size and type of construction of the plant building.



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SOURCE		
	one assembly shop, one department for a one wood drying installation, and one a opur tracks to the main railroad line a	plant-owned power station. There were
2.	The Uralvagonzavod produced about six p	passenger cars per day in 1947 and early s" was ten cars per day but by 1948 and
		four-axle 60-ton freight cars, 12 meter
	cuced open, tiltable freight cars for d	, with side flaps. The plant also proceed shipmont, called "Hopper" cars;
	and without special equipment for carry	led "Gondoin" cars: 60-ton flat cars wi
	raids time the production shifted to re	roduced T-34 tanks until early 1946, at ailroad car construction. In March 1946
	production of this new model, which res	
		d for tank construction except the engir
	Tagil Ironworks. 38	e ingot steel was supplied by the lizhni
3.	Reports as to the number of employees	varied between 30,000 and 60,000. work
		as surrounded partly by a wall and partle power plant and the steel foundries we
	guarded by special sentries. The plan	ot was guarded by plant police.
		information this plant was number 163 a cation sketch of the plant, see Annex 1.

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For layout sketch of the plant, see Annex 2, based on information from all sources.

Comment. This plant, which is the largest railroad car plant in the U.S.S.R., was scheduled to have an annual output of 60,000 railroad cars. The production figures indicated by sources are therefore credible. Platear production had already reached the provar volume by 1947. However, an increasing amount of the available capacity is probably being utilized for tank construction which has gained momentum since 1949. According to the Boviet press, the construction of covered 50-ton freight cars was resumed in July 1948. A new allmetal tank car nade of alloy-treated steel was being developed. It is possible that a new model of the T-34 tank was being built as indicated by sources. According to previous reports, T-34 tanks were produced in this plant during the entire war and the annual output then exceeded 10,000 tanks. The monthly production of only 50 units, indicated by sources, for the beginning of 1949, appears to be extraordinarily low.

was 40,000 in 1944. The number of employees reported by sources therefore appears to be credible. According to a Soviet press report of November 1947 one Skachkov, (fnu), was manager of the plant.

2 Annexes: Two sketches on ditto.

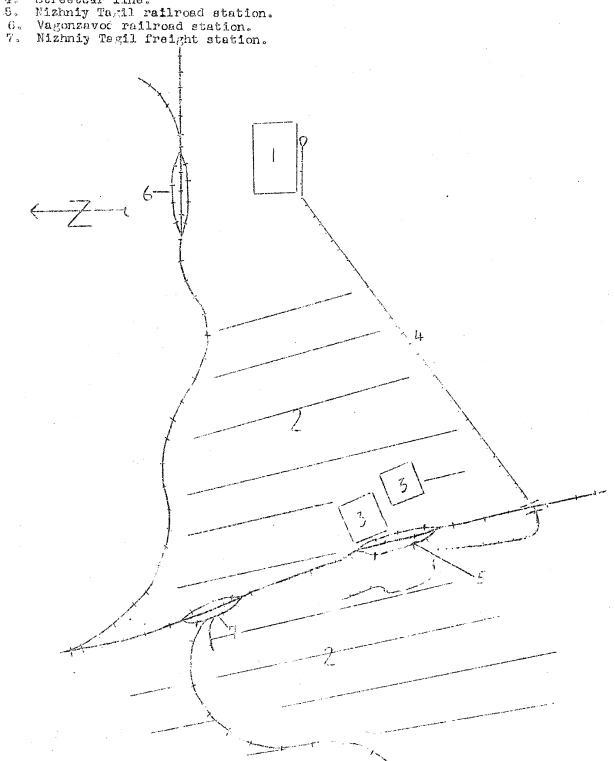
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Location Sketch of the Uralvaconzavod in Mishmiy Tanti

Legend:

- Uralvagonzavod.
- Nizhniy Tagil.
- New metallurgical plant. Streetcar line.



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Annex 2

Layout Sketch of the Ural.vagonzavod. Legend: See next page. 14 17 3 12 9 6 2 Approved For Release 2002 01/17 : CIA-RDP83-00415R010900080009-3

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Annex 2

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Legond to Annox 2:

- 1. Small steel foundry, Department to 550, equipped with six electric steel furnaces with carbon electrodes. Four furnaces were kept in operation while the other two were being repaired. The daily output was approximately 500 tons of castings, mainly wheels and bearings for tanks. The foundry was also equipped with a six-ton crane and six traveling cranes.
- 2. Large steel foundry, Departments No 563 and 507, equipped with ten open-hearth furnaces. Armor plates, exho blanks, bogic wheels for tanks and railroad car wheels were cast in this foundry. Also, railroad car wheels were assembled in this foundry.
- 3. Foundry for railroad car wheels, Department No 590.
- 4. Axic latheshop, equipped with about 90 lathes. One source, who was employed as lathe operator in this shop in 1948, reported that three lathes produced 45 bogic wheels per shift. Axios and wheels for railroad cars were also produced in this shop.
- 5. Latheshop.
- 6. Forge and pressing department, equipped with several punches, ten to fifteen steam nammers, five hydraulic presses, drop forges, and six to eight annealing furnaces. The forge allegedly had an annual capacity of 247,000 axles.
- 7. Welding shop, equipped with electric welding apparatus.
- 8. Spring section, Department No 630, equipped with 25 presses, ranging from 60 to h00 tons, 25 pneumatic hammers of six tons each, and eight forging machines. Plate and spiral springs as well as small parts such as bushing caps (Duechsen-Deckel), flaps (Klappen), etc. were produced. Structural steel parts for chassis were also cut in this department.
- 9. Two purching shops, each equipped with four large punches.
- 10. Ascembly department, composed of various sections connected by conveyor belts. The equipment included Russian, American and, since summer 1946, German machinery. Railroid cars and tanks were assembled here. Administrative offices and a precision machine shop were on the upper floors.
- 11. Underground tunnel, leading from workshop building No h to the large assembly shop. The tunnel was allegedly 18 meters wide and was used to deliver componer t parts.
- 12. Department for bogic whoels, comprising a latheshop for preliminary work, a latheshop for precision work, a department for fitting the rubber on the wheels and a rubber department.
- 13. Small sawmill.
- 14. Large savmill.
- 15. Good drying installation.
- 16. Forer plant, coal- and peat-fixed. The CETS station was allegedly outside the plant fence, about 2 km northwest of the plant near the Vagonzavod railroad station. It had six iron swokestacks and a large coal elevator. This plant also supplied the bakelite factory and the Vagonzavod settlement.
- 17. Workshop building, use unknown.

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· L		2	5X1X
	SOURCE		3
		1. Jocation: The Kirova Eachine Flant in located on the north-vester border of Kopeysk (61038'E/55")6'N) Chelyabinsk Dhast. (For location see Annex 1).	
		2. Plant installations: The plant has been in the process of intergement since construction. According to Soviet statements the production is very important for the coal mining of the entire district. For this reasts it continued the same type production as during the war, Source observed the construction of a new foundry, scholuled to be committed by I May 1949. But even the base framework of this project was not completed by August 1919. There was a rail-load connection. Details on power source were unknown. For plant layout see Annex 2).	
		3. Tork force: Several thousand Soviets and 250 PWs. Work was done in three shifts.	•
		4. Froduction: Mining machines, conveyor mechines, water pumps, contilators, dreagers and small implements.	3
25X1A		Comment:	
		a. The Kopeysk mining machinery plant has been frequently reported. According to statements by varius sources, the plant was given the number 25. It was transferred from Gorlovka/Ukraine to Kopeysk in 1941, and it previous designation "Kirov No. 258" was changed to the new number.) ==

Source was mistaken when he stated that peacetime production continued during the war because of its importance for the mining district. It is known from credible reports, that the plant produced bombs, mortar barrels, and stillery shells in 1941. It seems possible that the present plue of the plant

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:	1.	Location: The Kirova Machine Flant in located on the north-testery border of Kopeysk (61038°E/557)6°N) Chelyabinsk Dblast. (For location see Annex 1).	
	2,	Plant installations: The plant has been in the process of inlargement since construction. According to Soviet statements the production is very important for the ceal mining of the entire district. For this reasts it continued the same type production as during the war. Source observed the construction of a new foundry, scheduled to be completed by 1 May 1949. But even the base framework of this project was not completed by August 1919. There was a rail-toad connection. Details on power source were unknown. For plant layout see Annex 2).	
	3.	York force: Several thousand Soviets at 250 PWs. Work was done in three shifts.	
	4 0	iroduction: Mining machines, conveyor mechines, water pumps entilators, dredgers and small implements.	¹ 2

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Comment:

a. The Kopeysk mining machinery plant has been frequently reported. According to statements by various sources, the plant was given the number 25. It was transferred from Corlovka/Ukraine to Kopeysk in 1941, and its previous designation "Kirov No. 258" was changed to the new number.

Source was mistaken when he stated that peacetime production continued during the war because of its importance for the mining district. It is known from credible apports, that the plant produced bombs, mortar barrels, and similarly shells in 1941. It seems possible that the present when of the plant

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b. The attached sketches give the best description received thus far of location and plant layout. The building block in the northwestern corner of the plant or attached sketch seems more credible than on previous sketches.

As to the new foundry under construction, another source reported the same location (outside of the plant area). It can be assumed that the production of this foundry will be considerably increased.

2 Annexes: 1.) Kirora" Lachine Factory No.25 in Kopeysk.

Legend to Annex 2:

- 1 Fattern making parpenter shop
- 2 Lathe shop projucing locks for oxygen cylinders
- 3 Filling station for Dxygen cylinders
- 4 Distarsary
- 5 -sembly site for monthly overhaul of large dredge
- 6 Boiler house
- 7 Smokestack of boiler house
- 8 Metal dump
- 9 Metal-cutting shop, saving
- 10 Department No. 5, manufacture of large ventilators
 a. Office (total length about 54 meters)
- 11 Test stand
- 12 Forge, 54 meters long
 - a. Office
- 13 Bathing establishment
- 14 Small shop
- 15 Carpenter shop
- 36 Bakery and two warehouses

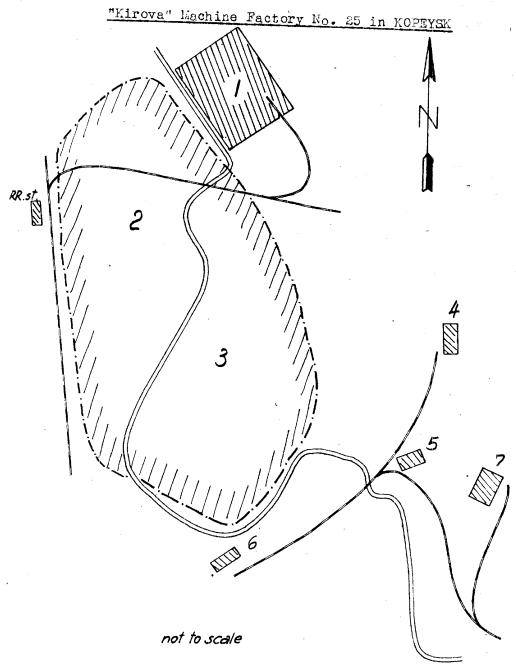
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- 19 Department No. 1, same as item No. 18 above
- 20 Devertment No. 3
 - a. Lathe shop
- 21 Dapartment No. 3, manufacture of water pumps and ventilators
 - a. Office
 - b. Milling shop
- 22 Small molding shop
- 23 Bronze furnace
- 24 Large molding shop
- 25 Two smelting furnaces
- 26 Bessemer converters
- 27 Aluminum furnace
- 28 Brass furnace
- 29 Two electric furnaces for smalling steal
- 30 Technical Office and laboratory of foundry
- 31. Iluce where molds are broken from the casts a. Transport line
- 32 Drying and hardening furnace
- 33 Drying furnace
- 34 Small molding shop
- 35 Mechanical workshop
- 36 Core making shop
- 37 Office of foundry
- 38 Sand grinding shop
- 39 Cld sand dump
- 40 New sand dump
- th. Metal weste dump

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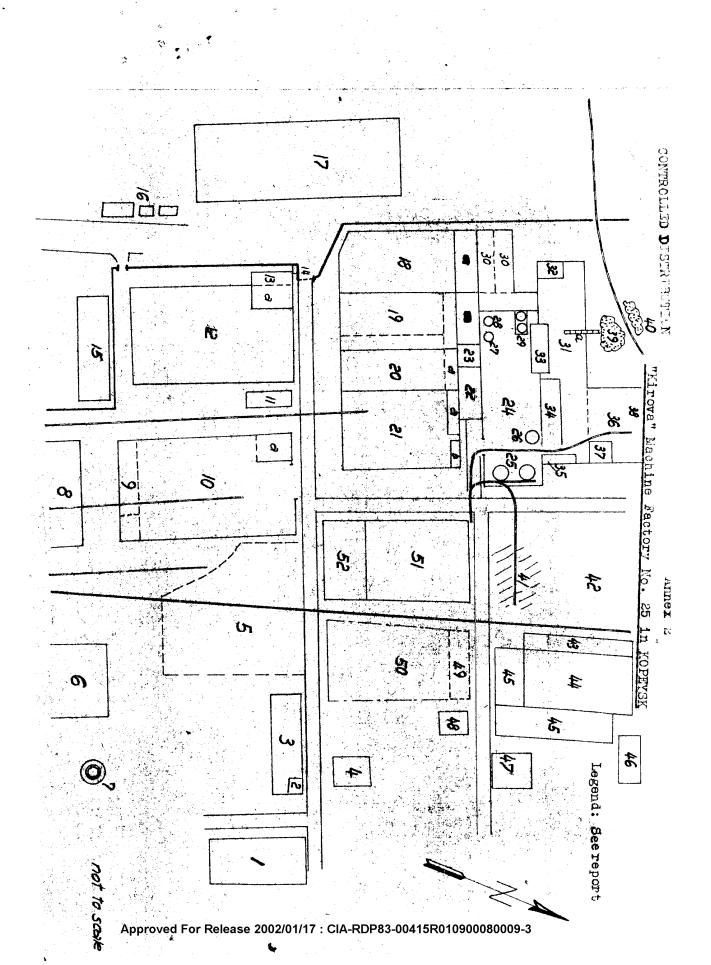
- 43 Machine tool department with crafting office on the second floor
- 44 Department No. 2, menufacture of small mining implements
- 45 Annexes of department No. 2
- 46 Sawmill
- 47 Plant fire department
- 48 Toilets
- 49 Storage of facings
- 50 Large storage site
- 51 Hardening shop
- 52 Machanical department (Building 51 and 52 together 54 meters long).



Legend:

Legend:

1 "Kirova" Machine Factory
2 KOPEYSK, "Lower Part"
3 KOPEYSK, "Upper Part"
4 Mine No. 201
5 Mine No. 204
6 Loading station
7 Mine No. 43



OPIC SM-Kirovic	a kachine Factory in I	Kope y sk	- of Calment year (resp. placebooks, "Subgraphy privacy (Albert 1970) 1970, 1974; is 1870/1970.	
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REMARKS				
C			25X1X	

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Location:

The SM Kircyka Plant in KCPEYSK (61°38'E/55°6' N) Chelyabinsk Oblast, is on the eastern edge of the town, about 900 feet from the Azitilenina main street. The official plant designation is SM-Kirovka Machine Factory, but local residents call the plant Factory No 25.

Plant Installations:

a. Soviet workers stated that the plant was constructed during World War II and equipped with machinery transferred from a plant in the Ukrainian SSR. The first enlargement, including the tool fitting shop, was completed by early 1946. The construction of a new foundry started in late 1947 although the old foundry was capable of fullfilling the requirements of that time. The production of the new foundry will about triple the present plant output.

- The older buildings are brick structures with flat wooden roofs covered with roofing paper. The new buildings are iron structures lined with masonry and but with the same type roofs as the old buildings. An old coal shaft, about 74 feet deep, which was east of the plant, was no longer in operation. A large industrial plant was to the south.
- c. The machine factory had the following departments:

Department No 1: Manufacture of coal cutters

Manufacture of chain links for coal cutters Department No 2:

and single parts
Assembly of centrifugal pumps and processing
of single parts for ventilators Department No 3:

Assembly of ventilators, and electric wel-Department No 4:

ding shop

Processing of iron parts Department No 5: Department No 6: Manufacture of coal cutters

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3. Jork Force:

About 3,500 laborers and 200 PVs working in three shifts

Production:

25X1A

Coal cuttore, ventilators, contribugel pumps, and rolls for conveyers.

domment:

- a. This information confirms and supplements two former reports. The assumption advanced in previous comments that this plant was formerly designated kirov No 258 is confirmed.
- b, Contradicting other records, source located the new foundry outside the plant area, and reported the plant departments in the northwest plant section to be detached individual buildings. In spite of these variances the purpose of the workshops generally agrees with all information. The significant asymmetrical shape of the old foundry was also reported by all other sources. Further information is required to obtain a clear picture on the actual plant layout.
- 1 Annex: "SM-Kirovka" Hachine Pactory in ROPEYSK

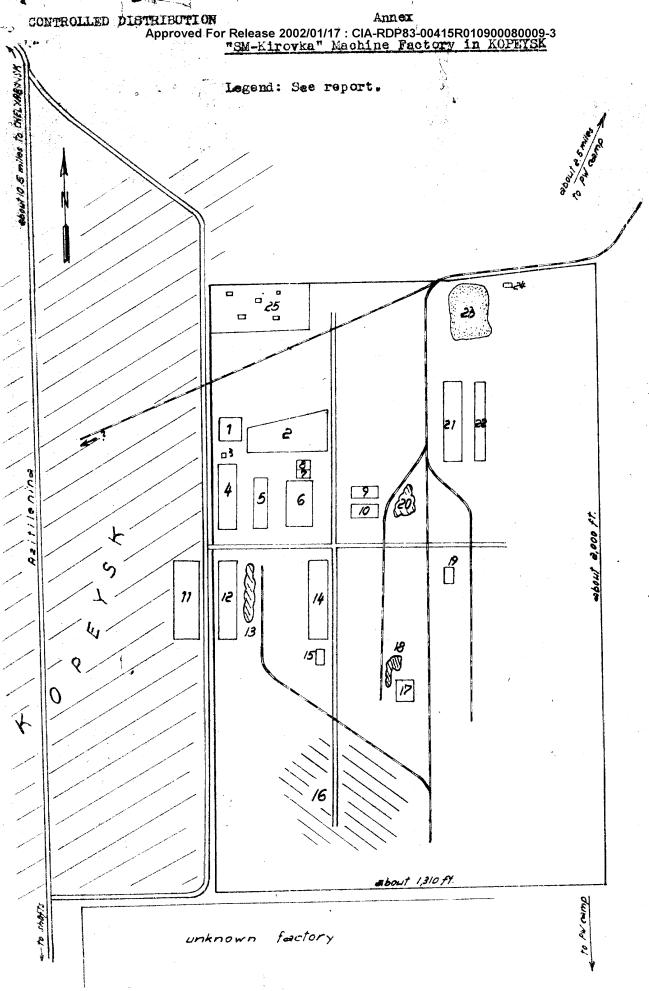
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Legend to Annex

- I Main office, 60x60x40 feet, white building with slanting tile roof
- 2 Cld foundry, 240x60 feet
- Trunsformer station.
- A Department No 5, 150x45x45 feet
- 5 Department Lo 1, 150x25x25 feet
- 6 Deportment No 3, 135x60x45 feet
- 7 bleetrical repair shop, 35x35x25 feet
- 8 Compressor shop
- 9 Wirdening shop, 75x30x25 feet
- 10 Repair shop, 75x30x45 feet
- 11 New foundry, 240x60x75 feet, with one main department and two branch departments, still without roof and installations
- 12 Forge, 240x45x45 feet
- 13 Coal dump
- 14 Department No 4,: 240x45x45 feet
- 15 Department No 5, 45x20x45 feet
- 16 Storage for iron, oil, and gasoline
- 17 Boiler house with slanting tile roof, 60x45x50 feet
- 18 Coal dump
- 19 Carpenter shop, with slanting tile roof, 45x25x15 feet
- 20 Coal dump
- 21 Tool shop, 240x45x45 feet
- 22 Department No 2, 240x25x36 feet
- 23 Lumber storage
- 24 Sawmill
- 25 Wooden sheds, garages and warehouses.

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		-		
	SOURCE			
		1.	Location:	
			The plant is locat (60°40' E/56°50' N	ed in the northern section of Sverdlovsk
		2.	Plant installation impossible to surve where he worked:	s: Of the very extensive plant area, which was ey, source reported the following departments
			Department 31, p Department 53, p Department 80, 1	ress cutting shop clishing shop athe shop
			according to sovie northeast, supplies workshops see anne	t statements, the Sugres Fower Flant to the d the current for the plant. For sketches of ex.
1		3.	Nork force: No de	tails available.
		4.	Production: Casts twin-cylinder block	of various kinds, driving wheels for V-belts,
25X′	1A		Co ment:	
			a. The Ural Lash I The location is st	lant in everdlovsk was repeatedly reported.
			b. This report and evaluation, consider	the sketch will be useful for the plant dered with other information. A series of small picture of this exten-

- reports will be required to obtain a final picture of thisive lant.
- 1 Annex, Elueprint: Ural Mash, Ordzhonikidze Plant for Meavy Industrial Machinery in Sverdlovsk.

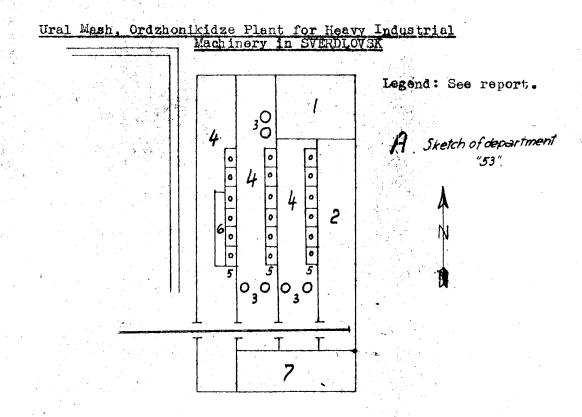
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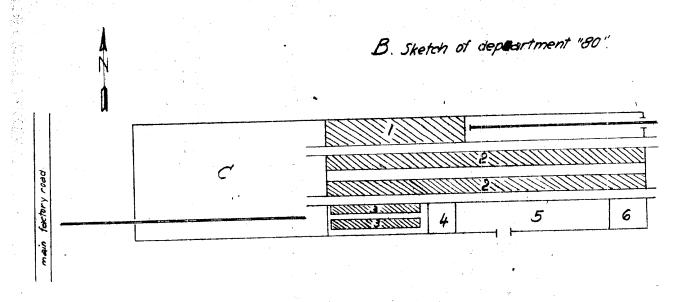
Lagend to Annex:

A Department No. 53: 90 x 45 meters, four longitudinal sections;

polishing shop

- 1 Tools supply
- 2 Fitting shop with three traveling crenes
- 3 Six polishing drums
- 4 Polishing shops with three 30 ton traveling cranes each
- 5 Three sets with five to six sand blastings for polishing
- 6 Welding shop
- 7 Office, kitchen and messhall
- B Department No. 80: Lathe shop, 90 x 30 meters, solidly constructed building
 - 1 12 to 15 boring and turning mills, about 1.8 meters in diameter
 - 2 Two rows with many lathes, drilling machines and milling machines
 - 3 15 to 18 lathes
 - 4 Office
 - 5 Welding shop
 - 6 Carpenter shop
- C Plant department No. 31: Press cutting shop, 58x30 meters, Annex of department No. 80, equipped with large press cutting machines and flywheels.





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