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AIR INTELLIGENCE INFORMATION REPORT

AREA REPORT CONCERNS

POLAND

STEEL PLT "1 MAY" in GLIWICE (5017N/1840E)

SUMMARY (Enter concise summary of report in final one sentence paragraph. List inclusions at lower left. Begin text of report on AF Form 112a.)

I. Location, plt layout, plt history administrative data, description of bldgs and machinery, transportation means, security system, labor force, air-raid protection means, type of products, type and source of raw products.

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AF FORM 112
1 OCT 52

REPLACES AF FORM 112-PART I,
1 JUN 48, WHICH MAY BE USED.

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II. IDENTIFICATION DATA

Ref to Pt 1, Fig 1, Overlay of TCM 0232-9965-15-25M of GLIWICE-SOS-NOWIEC Area (5017N/1840E) locating this site.

1. STEEL PLT "1 MAY". Address: GLIWICE #4 WILENSKA Street. Plt belonged to category "Ausgesondertes Staatsunternehmen" (Selected Governmental Installation). Old plt, well known by its German abbreviation "VHO" (Vereinigte Oberhuettenwerke United Main Steel Plt). Plt did not suffer war damages, approx 80% of machinery was dismantled and taken to Russia in 1945 after the war, reconstr started and part of plt operated in 1946. Machinery at that time was delivered by a steel plt located in FRIEDENSHUETTE (coord unkn). Machines of German origin, new. Other machine tools came from machine tool plt "RAFAMED" located at RATIBOR (5005N/1812E) formerly Steel Plt HEGENSCHEID. Machines from Germany, CSR, RUSSIA, ENGLAND, FRANCE and other cities in POLAND. In 1957, plt received a Soviet 15m lathe rosted all over. Plt received 2 brand new ingots cutting machines with automatic control from a machine tool plt WALDRICH, located at SIEGEN, Bundesrepublik. Due to the automatic control, poles had great difficulties in operating them. Plt already had some lathes from Soviet Union with automatic control. S compared both the Soviet and West German machines and stated they were about equal as to quality, however, the Soviet machines were less complicated and would last longer. Manager of plt was MITRENKA, Joseph (?) born in RATIBOR, 60 years old, 170cm tall, grey hair, heavy set, member of Communist Party. Technical director was engineer PIETSZIK, FNU, 45 years old, 180cm tall, athletic figure, dark hair, member of Communist party, no knowledge of steel production. Commercial director was MAINKA, FNU, about 40 years old, 180cm tall, slender, dark hair, spoke good German. Director for Sale and Purchase was RUNDE, FNU, about 40 years old, 175cm tall, slender, dark hair, very much liked by laborers although party member, engineer by profession.

III. INSTALLATION INFORMATION

Ref to Fig 2, Memory Sketch of Steel Plt "1 MAY" in GLIWICE (5017N/1840E).

1. WISLENKA STREET

2. DRR ESG. Game from passenger station of GLIWICE located NW of plt, terminating at NE corner in plt. S heard that it was planned to extend RR to the freight yard of GLIWICE, located NE of installation. Standard constr, located on earthen embankment 6m high. All other RR lines in plt area were single track lines, rails even with surface. Most of tracks had two rails on one side, that RR lines could be used by ESG and small gauge RR trains.

3. MAIN ENTRANCE. Called Entrance #1. Secured by double wing iron gate, each wing 4m wide. Entrance guarded by 3 members of work-police, wearing dark-grey uniforms with red piping armed with sub-machine guns. All laborers had to present work-passes when passing the gate. S sometimes witnessed body-

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checks on workers. Nevertheless, it continuously happened that laborers smuggled materials, mainly alloys which were rare in Poland. All vehicles were searched. A laborer caught by smuggling was released immediately and taken over to police. S heard from co-workers that some guards could be bribed.

4. STREET SYSTEM. All streets in plt area 5m wide with small cobblestone pavement.

5. PLT ENCLOSURE. Masonry wall 2m high, except for NE side of plt, where there was a 2m high board fence.

6. ENTRANCE. It was used by people who did not work in the plt but picked up materials for private sector in GLIWICE. Such people had to ask for a limited pass in Guard House (Pt 8). With that pass, visitors of plt had to use Main Entrance (Pt 3). There was a separate mesh wire enclosure from Guard House (Pt 8) to this entrance, unauthorized persons could not enter plt.

7. BLDG. Brick structure, low angle tarpapered roof.

A. SECTION. Two-story, approx 50x15x6 to 8m. First floor divided into storage section and a laboratory. Storage section used for replacement parts of tools, rivets, screws, nuts, bolts, copper and brass sheets. Laboratory used for checking steel samples, modernly equipped, 2 men and 3 women and a storage section for electrical goods such as cables, wires (copper and aluminum) overhead line cables, underground line cables, switches, plugs, insulators, fuses bulbs, etc. Bulbs and fuses brought in partly from CSR, SOZKONGER and plts in POLAND. There was an extensive lack of copper cable. S once needed 320m copper cable of 1.5 sq millimeters and plt had to send a courier to WARSAW (5215N/2100E) for the cable, since no plt in Upper Silesia (SW Poland) could deliver such cable. S stated that overhead lines mostly consisted of aluminum wire and in some cases even plain iron wire.

B. Storage Section. Single story, 30x15x6 to 8m. Used for storage of fire proof bricks for furnaces in Foundry (Pt 87C) and for making molds.

C. Storage Section. Single story brick, 30x17x6 to 8m. Used for the storage of replacement parts for machine tools, cranes etc. S learned that there were no original replacement parts. They had to make such parts themselves. Small amount of such parts was made in a machine tool plt in Poland.

D. Electrical Repair Shop. Single story brick, approx 30x18x6 to 8m divided into electrical repair shop and armature winding section. Latter section did not contain any machines. Spool's coils and armatures had to be wound by hand by approx 6 women. Armatures were wound with copper-wire. The electrical repair shop was used by approx 105 men and women per shift, who worked all over the plant repairing electrical facilities. This shop was equipped with a 5 tons crane traveling from N to S 5m high manually operated by means of chains. Furthermore there was a test stand for electric motors. Test stand had a maximum cap of 30 kilowatt. In SE part of section there were 3 transformers each with a cap of 6,380 volts and 1,000 kilovolt ampere, feeding 380 volts lines for administration, lathes and cranes. Oil cooled transformers of German origin. There was lack of oil. S stated that used transformer oil had to be collected and sent off for filtering purposes. Filtered oil was used again. All electric cables from the transformers were laid underground.

8. GUARD HOUSE. Single story brick bldg, approx 15x6x6 to 8m, low angle tarpapered roof.

9. GARAGE. Single story brick bldg, 35x15x5 to 6m, low angle tarpapered roof. Was used for 8 trucks, one bus and passenger cars of supervisory personnel. There was a small repair shop for these vehicles in SE corner of Bldg. Three auto-mechanics worked here.

10. TURN PLATE. Electrically operated steel structure, approx 10m in dia, even with surface.

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11. ROOFED AREA. Measured approx 42x5m, roofed with a low angle tarpapered structure in a height of 5m. It was used only for unloading fire-proof bricks, stored in Storage Section (Pt 7B).

12. BLDG. Single story brick bldg, approx 80x6x6m, low angle tarpapered roof.

A. Storage Section. Molds for the alloy-foundry were stored here as well as raw materials for foundry such as copper, brass, aluminum and bronze.

B. Battery Loading Station. Batteries were stored and re-loaded here. There had arrangement to change 10 batteries at the same time.

C. Civilian Air Defense Control Center. S learned that a high percentage of laborers was trained in civilian air defense, Equipment installed in control center was of Swedish origin. There was a big switchboard, microphone for loudspeakers installed in bldgs in plt area, two telephones, one connected with municiple telephone exchange in town and one for making calls inside plt area (by pushing a button, all telephones in plt rang and the control officer could speak to all offices the same time), push buttons for releasing an electrically operated siren, located on roof of High Tension Station (Pt 27) and for releasing a steam powered siren, located on roof of the Boiler House (Pt 45). S learned that the signals of the siren were just contrary to the former German. A steady tune meant alarm and an up-and-down tune meant all-clear. In case of emergency, all civilian air defense personnel of the plt would be under command of military town commander of GLIWICE. Although there is no war, this control center was occupied day and night.

D. Office. Housed dispatcher of transportation unit of installation.

E. Lavatory for men

F. Lavatory for Women

13. STORAGE AREA. Area was approx 40x20m, for open storage of all kinds, of materials such as fire-proof bricks, constr materials, pipes, wheels, axles etc.

14. ALLOY FOUNDRY. Single story brick, approx 30x20x6 to 8m, low angle tarpapered roof. Bldg equipped with three cranes, traveling in a height of 5m from E to W, manually operated. Bldg contained 4 to 5 gas operated furnaces of medium size, welding sets, grind-stones, a metal saw, and a kiln for drying molds, operated by gas. Foundry mainly worked with copper, brass, aluminum and bronze. Bushings cog-wheels, collector-shoe gears for cranes and various smaller parts were casted here. Casts were cleaned by hand. Approx 60 men and women worked here per shift.

15. METALLURGICAL INSTITUTE. Two-story brick bldg, approx 20x20x6 to 8m, low angle tarpapered roof. It did not belong to plt but to Polish Army for purposes unkn to S. S assumed that alloy metal assays will be tested here, since it was planned that Alloy Foundry (Pt 14) should later work hand in hand with this institute which was put in operation in Jun or Jul 1957. After institute was put in operation, S never entered again. First floor contained 8 small electric-furnaces, lathes, presses, rolls, a switchboard and workbenches. Furnaces and switchboard had been delivered and installed by Siemens an Austrian firm at VIENNA. Second floor divided into offices. Entrance only from Wislenka Street (Pt 1) guarded by same work-police than plt area. Approx 60 men and women worked here, as S observed during change of shifts. S heard that this institute belonged to a big organization of Polish Army, whose institutes were scattered around GLIWICE.

16. STORAGE SECTION. Single story brick, approx 30x10x6 to 8m, low angle tarpapered roof. Bldg equipped with a 5-ton crane, 5m high traveling from E to W. Bldg used for the storage of wheel-tires coming from the Hardening Shop (Pt 18A). These wheel-tires were tested here for coalescence and resistance

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of steel by a Swedish apparatus based on sound-ranging. No details. Four to 5 men worked here per shift.

17. MAIN ADMINISTRATION BLDG. Three-story brick bldg, approx 35x20x8 to 10m low angle tarpapered roof. Housed director's offices, calculation section, personal section, pay-sections, file-sections and Personnel-office. Plt employed a total of approx 3,000 men and women working in three shifts a day, 6 days a week.

18. HARDENING SHOP

A. Hardening Shop. Single-story brick, approx 40x12x6m, to 8m, low angle sheet-metal covered roof. Equipped with 2 cranes 7m high traveling from E to W, with cap of 20 and 30 tons. Shop used for hardening wheel-tires, cog wheels, pilot wheels for locomotives, axles, RR car wheels, and various smaller items. Shop contained 8 gas-operated pre-heating furnaces. Hardening (cooling and quenching of steel) performed with oil and water baths. Approx 15 to 20 men and women worked here per shift.

B. New Part of Bldg. Same constr details as Hardening Shop (Pt 18A) but with flat concrete roof. At E side of bldg there was a large steel sliding door, not yet in operation but soon will be used as hardening shop also.

19. YARD. Approx 13m sq.

20. SHEET METAL CHIMNEY. Belonged to Hardening Shop (Pt 18A). Chimney was approx 18m high on brick foundation 5m in dia and 2m high. 1m in dia connected with furnaces in Hardening Shop (Pt 18A) by underground canal.

21. WORKSHOP. Single story brick bldg, approx 200x13x12m, low angle tarpapered roof.

A. Casting Cleaning Section. Equipped with two cranes traveling from E to W 10m high with cap of 20 and 30 tons. Used for finishing wheel-tires which were prepared in Workshop (Pt 21B). Cleaning done by hand. Approx 10 men worked here per shift.

B. Workshop. Equipped with two cranes of same type as in Casting Cleaning Section (Pt 21A). Furthermore, there were three wall-bracket cranes each electrically operated with a cap of 1,500 kilograms. Workshop used for preparing wheel-tires. Approx 50 to 60 men and women worked here per shift.

a. Two Vertical Drop Machines. Electrically operated, Polish origin.

b. Straightening Machine. Out of operation

c. Stamping Machine. CSR origin, type "SKODA" Used for stamping numbers into wheel-tires.

d. Two Rolling Machines. One German, one Polish origin. One always out of operation and under repair. Both were hot rolls for rolling out wheel-tires.

e. Press. CSR origin, type "SKODA", cap 6,000 ATU. Used for pressing pre-heated ingots into rough shape of wheel-tires.

f. Pre-Heating Furnace. Gas operated, used for pre-heating ingots.

22. WORKSHOP "B". Single story brick, approx 30x20x8m, low angle tarpapered roof. Used for cutting ingots. Equipped with a 25-ton crane traveling from N to S 5m high. Workshop only part in operation when S departed.

A. Office of Foreman

B. Two Electric Motors. Soviet origin, each with a cap of 125 KW, operating Lathe (Pt 22C).

C. LATHE. Soviet origin, 12m long. For further details ref to (Pt 1) paragraph II.

D. Two Automatic Machines. German origin, delivered by WALDRICH located at SIEGEN/Westfalia. Used for cutting ingots.

E. Two Electric Motors. German origin, operating the Two Automatic Machines (Pt 22D).

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16-55570-15

U.S. GOVERNMENT PRINTING OFFICE: 1949-O-318322

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23. LATHES SHOP. Single story brick, approx 30x10x6 to 8m, low angle tarpapered roof. Used for cutting steel blocks as long as Workshop "B" (Pt 22) did not work with full capacity. Shop equipped with lighter crane traveling from N to S in a height of 5m. Shop contained one English lathe type "NOBLE LUND" and 5 Polish lathes belonging to a steel plant located at LABAND (5020N/1837E). S knew that these lathes had to be given back. Approx 12 men worked here per shift. Shop cut steel ingots of circular shape partly 8 and 12m long and partly 30, 50 and 60cm in dia for export to Brasilia.

24. WORKSHOP. Single story brick, approx 170x20x18m, low angle concrete roof. Equipped with two cranes traveling from E to W 16m high one with a cap of 35 tons and one with a cap of 40 tons and two wall-bracket cranes, each with a cap of 1,500 kilograms. Approx 50 to 60 men and women worked here on preparing RR car wheels. RR car wheels were exported to USSR, India, Red-China, Egypt, Yugoslavia and used in Poland. These wheels differed slightly in size (S remembered approx 5cm as maximum). Wheels for Yugoslavia were used for electric-trains. S learned that beginning in 1958 RR car wheels will be made for export only.

A. Three Pit Heating Furnaces. Operated by gas, each measuring 20m long and 2.5 to 3m deep. Used for pre-heating steel ingots for further preparation. S once saw shafts for ships. No details. Ingots pre-heated in these furnaces were used under the Press (Pt 24D).

B. Drive-Out Type Furnace. Gas operated.

C. Pre-Heating Furnace. Same type and purpose as Pre-Heating Furnace (Pt 21B f).

D. Press. Same type and purpose as Press (Pt 21 B e)

E. Rolling Machine. German origin, old type.

F. Small Press. Polish origin, cap 3,000 ATU.

G. Storage Section. Used for cooling prepared parts and storage of round iron of various dia, ingots, steel blocks, etc.

25. WORKSHOP. Single story brick, approx 95x10x6 to 8m low angle tarpapered roof. Equipped with crane traveling from E to W 5m high with a cap of 5 tons. Workshop used for cutting ingots, turning RR car axles, and preparing smaller items. S seldom entered. Approx 30 men and women worked here per shift.

A. Workshop

a. Six Lathes. Polish origin, type "RAFAMED" for preparing RR car axles.

b. Metal Saw. Polish origin, saw-blade 1.2m long.

c. Vertical Lathe. German origin, old type, for re-

d. Drop Hammer. Polish origin

e. Press. Polish origin, cap of 6,000 ATU

f. Chimney. Sheet metal, 1.5m in dia on brick foundation. Chimney was 20m high (protruding the roof approx 12m) connected with underground canals with furnaces in Workshop (Pt 24).

g. Forge. Used for pre-heating smaller items.

B. Storage Section. Used for storage and packing smaller items such as axes, hammers, hatchets, etc.

C. Office

26. REPAIR SHOP. Single story brick, approx 30x20x10 to 12m low angle tarpapered roof. Used for repairing machine tools installed in plant. Shop contained one small gas operated pre-heating furnace, 1 lathe, 1 drilling machine, 1 milling machine, surface plates, workbenches and two small offices. Approx 15 men worked here per shift.

27. COMPRESSOR STATION, single story brick, approx 22x10x5 to 6m low angle tarpapered roof. Used for producing compressed air for presses installed in plant. Station contained 5 high-pressure compressors of CSR origin,

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type "SKODA". Bldg equipped with a manually operated small crane to lift compressors in case of repair. All pipes between compressors and presses laid underground.

28. BLDG. Brick bldg, approx 22x10m, low angle tarpapered roof.

A. Compressor Station. Single story, approx 8m high, contained 7 Polish compressors only 3 were in operation and 4 in reserve. Six compressor had a cap of 6 ATU, the other was smaller. Compressors were used for operating air vents in workshops.

B. Section. Two story, 8m high. In basement of bldg were 5 transformers each with a cap of 1,000 kilowatt-ampere transforming current from 6,000 to 500 volts. First floor contained all pipes and valves of Compressor Station (Pt 28A) and (Pt 27). Second floor of section contained switchboards and breakers of transformers in basement. On roof of this section was an electrically operated siren, part of civilian air-defense.

29. STORAGE BLDG. Single story brick, approx 22x12x4 to 5m, low angle tarpapered roof. Used for storage of replacement parts and raw materials used in Repair Shop (Pt 26).

30. WORKSHOP. Single story brick, approx 95x16x15m, low angle tarpapered roof. In basement of bldg there were old German built air-raid bunkers which had been renovated and modernized. Bunkers were divided into concrete chambers with double doors. Bunkers were equipped with air ventilator system and telephone. Concrete ceiling of bunkers was thickened. Bunkers were 5m deep. S heard that in case of emergency, plt management will use these bunkers were underground connections to air-raid bunkers located under open space W of Compressor Station (Pt 27).

A. Workshop, for production of dies for presses installed in plt, shafts for ships, drillings on shafts for ships, and bigger cog-wheels of bronze. Shop equipped with 2 cranes traveling from E to W 10m high each with a cap of 20 tons. Approx 40 men and women worked here per shift.

- a. Workbenches
- b. Four Lathes. Polish origin
- c. Drilling Machine. US origin
- d. Vertical Lathe. Polish origin, table 3m in dia.
- e. Dressing Rooms.

B. Offices

C. Workshop. Approx 40 men and women worked here per shift.

- a. Six lathes, partly CSR, US, German and Polish origin.
- b. Four Planning Machines. Polish origin
- c. Shaper. Polish origin, type "RAFAMED".
- d. Metal Saw. Polish origin, blade 1.2m long.
- e. Milling Machine. US origin, new S was informed

delivered by UNNRA.

- f. Two Slotting Machines. US origin, firm in Florida

Model around 1900.

- g. Vertical Lathe
- h. Vertical Lathe. French origin, type "BERTHIER".
- i. Three Milling Machines. CSR origin, type "MARS"

for milling cog-wheels of bronze.

- j. Magnet Plate, for polishing purposes.

31. STORAGE BLDG. Single story brick, approx 22x18x4 to 5m, low angle tarpapered roof, for the storage of tin-pipes, metal sheets, wires, etc used by plumbers for maintenance and repair of bldgs in plt.

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32. WATER BASIN. Concrete structure, newly constr, approx 12x8m unkn depth since always filled with water. Used for collecting warm waste-water for cooling purposes. Connected with New Pumping Station (Pt 33) by underground pipes.

33. NEW WATER PUMPING STATION. Single story concrete, approx 10x8x6m, low angle concrete roof. Pumps not yet installed when S departed. S heard all other pumping stations in plt area will be dismantled after completion of this one. S heard it was planned to put pumping station in operation in 1958.

34. ENTRANCE. Secured by a double wing iron frame mesh wire gate, guarded by work police in Guard House (Pt 37).

35. SRR SMALL GAUGE RR. Came from Plt leading to a freight and shunting yard for small gauge RR approx 1km SE of plt. Only part of axles (finished) from a plt in FRIEDENSHUETTE used in this installation were brought on this RR.

36. WELL. No details

37. GUARD-HOUSE. Single story brick bldg, approx 3x3x3m, low angle tarpapered roof occupied by 3 members of work-police guarding Entrances (Pts 34 and 38).

38. ENTRANCE. Secured by single wing iron gate. Entrance only used by laborers of plt.

39. PUMPING STATION. Single story brick, approx 4x4x3m, low angle tarpapered roof. In basement of bldg were 4 centrifugal water pumps of Polish origin each with a 40 kilowatt electric motor. No further details. Close to pumping station was newly renovated wooden water-cooling tower approx 8m sq and 28m high.

40. BRIDGE CRANES. Each had a cap of 20 to 25 tons, 12m high. Cranes equipped with electro-magnets.

41. STORAGE AREA. Area was approx 85x15m, for open storage of steel ingots and blocks used in Workshops (Pt 21 and 24). Steel ingots and blocks were brought to storage area from Steel Foundry (Pt 87).

42. CRANE SUPPORT. Consisted of steel-I-beams approx 10m apart and 12m high. The two lines of steel beams were approx 10m apart.

43. SHOEMAKERS SHOP. Single story brick, approx 4x4x4m, low angle tarpapered roof. Three shoemakers worked here.

44. BLDG. Two-story brick, approx 30x5x8m, low angle tarpapered roof. Second floor housed offices and mess hall. First floor was divided.

A. Plumber's Shop. Used by plumbers working on maintenance and repair of water, heating and drainage facilities in plt. Shop contained drilling machines, one lathe, grind-stones and workbenches. Approx 30 men and women belonged to the plumber's crew per shift.

B. Repair Shop. Used for the repair of precision tools and measuring instruments used in plt, contained no machines except a watchmaker's lathe. Other repairs, laborers used machines installed in Plumber's Shop (Pt 44A). Approx 20 men and women worked here per shift.

C. Section. Contained main-valve and distribution point of gas pipes leading into plt. Main gas pipe line from municipal gas works of GLIWICE terminated here. Section contained switchboards, valves, slide-valves and gas-meters. Approx 10 men and women worked here per shift.

45. BOILER HOUSE. Single story brick bldg, approx 15x15x20 to 25m, flat concrete roof. Contained three coal fed boilers with traveling grates. Boiler housed used for heating purposes and producing warm water.

46. STORAGE AREA. Approx 25x10m, used for open storage of coal used in Boiler House (Pt 45).

47. BRICK SMOKESTACK. Approx 35 to 40m high, 2.5 to 3m in dia on top and 6 to 8 dia on bottom. Smokestack was connected with Boiler House

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(Pt 45) by underground concrete canal.

48. PUMPING STATION. Single story brick, approx 6x4x4m, low angle concrete roof. Contained 6 centrifugal water pumps and one hydraulic pump for water used in Boiler House (Pt 45). Each pump had its own electric motors. Entire equipment was of Polish origin. S learned part of pumps had been manufactured in plt "ALTE HUETTE" in GLIWICE.

49. BATH HOUSE. Two-story brick, approx 10x10x15m, low angle tarpapered roof, used by plt laborers and civilians living in that area. Entrance on NW side towards plt was guarded by member of work-police.

50. WELDING SHOP. Single story brick, 10x8x5m, low angle tarpapered roof. It contained 5 electric-welding machines of Polish origin and 10 autogenous welding apparatuses. Welding shop worked for Workshop (Pt 30A) and repair and maintenance of facilities installed in plt area. Approx 15 to 20 men and women worked here per shift.

51. WEIGHING MACHINE had a cap of 100 tons.

52. FIRE DEPARTMENT. Single story brick, approx 8x6x12m, flat roof. On NW corner of roof, a brick tower approx 2m sq, protruding from roof, 6m serving as fire lookout, occupied day and night by member of fire brigade. Fire department had one modern and one old ZIS type fire truck. The professional fire-brigade was composed of 10 members per shift.

53. REPAIR SHOP. Single story brick, approx 10x5x4m, low angle tarpapered roof, was used by electricians and mechanics working on repair of machines installed in Steel Foundry (Pt 87). Section did not contain any machines. Approx 60 men and women in this maintenace crew per shift.

54. SMITHY. Single story brick, approx 5x5x4m, low angle tarpapered roof. It contained 2 forges, workbenches with anvils, and vises. Belonged to Molding Shop (Pt 87B).

55. FURNACE SECTION. Single story brick, approx 62x15x12m, low angle roof, tarpapered. Equipped with 2 cranes traveling from N to S 10m high, each with a cap of 10 tons. Section contained 2 gas operated furnaces for drying molds. No details. Approx 40 men and women worked here per shift.

56. MOLDING SHOP. Single story brick, approx 62x15x12m, low angle tarpapered roof. Bldg equipped with two cranes traveling from N to S, 6m high each with a cap of 10 tons. S learned mainly RR car wheels were molded here. Casts were cleaned by compressed air. 2 blasting machines installed in S part of bldg. Approx 40 men and women worked here per shift.

57. OFFICE. Single story brick, approx 10x5x4m, low angle tarpapered roof. Housed foremen of Molding Shop (Pt 56).

58. BRIDGE CRANE. 6m high cap of 6 tons, and equipped with hooks.

59. CRANE SUPPORT. Consisted of steel-I-beams approx 10m apart. Two lines of beams were 8m apart.

60. STORAGE AREA. Triangular shape. N and S sides each approx 50m long, W side approx 30m long used for open storage of coal, mainly as reserve for Boiler House (Pt 45) and locomotives of plt.

61. BLDG. Single story brick, approx 30x10x8m, low angle tarpapered roof.

A. Carpenter Shop. Contained circular saws, band saws, lathes, planes, drilling milling machines and workbenches. Used as model-shop for repair and maintenance of bldgs and furniture installed in plt. Approx 50 men and women worked here per shift.

B. Storage Section. Storage of lumber, in Carpenter Shop (Pt 61A).

62. STORAGE AREA. N side was approx 55m long, E side was approx 40m long and S side was approx 35m long for storage of coal.

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63. ENTRANCE #3. Secured by a double wing iron frame mesh wire gate, guarded by 3 members of work-police. Same procedure as described under Main Entrance (Pt 3).

64. BLDG. Single story brick, approx 12x10x5m, low angle tarpapered roof, divided into storage section for working-clothes and guard section. Entrance #4, going thru bldg had 2 guards. Entrance could only be used by laborers. Same procedure as described under Main Entrance (Pt 3).

65. BICYCLE STAND

66. MESS HALL, Two-story brick bldg, approx 20x10x6 to 8m, low angle tarpapered roof. First floor housed kitchen second floor divided into canteen and mess hall.

67. BRIDGE CRANE. 12m high cap 35 tons, equipped with chains and hooks. Crane used for lifting RR cars from DDR ESG (Pt 2) down to terrain of Pt area in case Traveling Platform (Pt 72) was too busy.

68. CRANE SUPPORT. Consisted of steel I-beams approx 10m apart and 12m high. Two lines were approx 10m apart, extending over DDR ESG (Pt 2).

69. TRAVELING PLATFORM. Electrically operated. Used to shift RR cars from Traveling Platform (Pt 72) to various tracks passing Crane Support (Pt 68).

70. LOCOMOTIVE SHELTER. Single story brick, approx 15x10x6 to 7m low angle tarpapered roof. Two sets-of-pulleys installed but no machinery. Pt owned 5 old Polish steam locomotives, for small gauge RR minor repairs made in pt. General overhauls or bigger repairs performed either in RR repair pt in BRESLAVL (5106N/1702E) or POZNAN (5225N/1658E). Two RR tracks, small gauge, terminated in this shelter.

71. STORAGE BLDG. Single story brick, approx 10x5x5m, low angle tarpapered roof. For storage of winches chains, steel cables and other replacement parts for cranes and transport system. Also accessories for kitchen stored here.

72. TRAVELING PLATFORM. Measured 25x15m. Led from embankment of DDR ESG (Pt 2) down to terrain of pt. Used to move RR cars. Traveling platform was a steel constr, electrically operated. RR cars rolled or pulled by Bridge Crane (Pt 67) from this traveling platform onto Traveling Platform (Pt 69) for further movement.

73. REPAIR SHOP. Single story brick, approx 10x10x5m, low angle tarpapered roof. Divided into plumber and painter shop. Laborers working here maintained bldgs crew of laborers responsible for maintenance of worker's settlements in vicinity of pt. Approx 100 men and women worked per shift approx 30 maintained worker's settlements.

74. STORAGE AREA. Approx 55x15m, the open storage of scrap iron.

75. CRANE SUPPORT. 12m high steel I-beams approx 10m apart two rows of beams approx 15m apart.

76. TWO BRIDGE CRANES. Cap of 25 tons, equipped with grabs to unload RR cars with scrap iron.

77. WEIGHING MACHINE, weighing scrap iron and iron ore to change furnaces in Steel Foundry (Pt 87C).

78. SMALL GAUGE RR

79. CRANE SUPPORT Steel-I-beams approx 10m apart and 12m high. Two rows of beams approx 5m apart.

80. STORAGE AREA. Approx 20x10m, open storage of iron ore part of which came from SWEDEN, USSR and POLAND. Iron ore dumped by RR cars.

81. TWO CRANES. Bridge crane with cap of 3 tons, used to pull small cars on Small Gauge RR (Pt 78) loaded with iron ore and scrap iron into Steel Foundry (Pt 87C).

82. STORAGE BLDG. Single story brick, approx 15x5x8m, low angle tarpapered roof. Used for storage of furnaces in Steel Foundry (Pt 87C). 3

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mixers of Polish origin. Approx 20 men and women worked here per shift.

83. REPAIR SHOP. Single story brick, approx 15x5x8m, low angle tarpapered roof. S seldom entered, heard that laborers working here repaired machines and equipment installed in Steel Foundry (Pt 87).

84. CRANE SUPPORT. I-beams approx 10m apart and 8m high. Two rows of beams were 10m apart.

85. STORAGE AREA. Approx 50x10m open storage of ingots casted in Steel Foundry (Pt 87).

86. TWO BRIDGE CRANES. Cap of 20 to 25 tons, equipped with an electromagnet.

87. STEEL FOUNDRY. Single story brick bldg, approx 54x50m, low angle tarpapered roof.

A. Storage Section. Approx 18m high, equipped with 2 bridge cranes traveling from E to W 12m high, cap of 10 tons equipped with hooks. S observed steel ingots from Molding Shop (Pt 87B) were cooled and molds cleaned here. Did not contain any machines. Approx 40 to 50 men and women worked here per shift.

B. Molding Shop. 25m high. Equipped with 4 bridge cranes all traveling from E to W. Two of them were 18m high cap of 60 tons and two traveling 12m high cap of 5 tons. The bigger cranes moved cradles with liquid steel. All cranes equipped with hooks. S observed steel casted into fire-proof brick molds. Approx 40 to 50 men and women worked here per shift.

C. Steel Foundry. Approx 28m high, equipped with two fully-rotating cranes traveling from E to W 12m high cap of 20 tons, used to charge 3 gas operated Siemens Martin Furnaces. Two furnaces had cap of 60 tons and one a cap of 40 tons. One of the furnaces already converted from manual to automatic control. S observed entire furnace had been dismantled down to the foundation and newly built-up. The conversion was completed on 25 or 28 Dec 1957. S learned other furnaces will be converted. Furnaces were charged from top. Furnace tapped every 5 or 6 hours. Except for equipment belonging to furnaces, there were no machines. Approx 100 men and women worked here per shift. Three brick smokestacks each approx 2m in dia on top and 5 to 6m in dia on furnaces, protruded from the roof of section for approx 30m.

D. Section approx 6m high, divided into a laboratory for the foundry, offices of foremen, lavatories and dressing rooms.

88. RR CAR REPAIR SHOP. Single story brick, approx 20x10x15m low angle tarpapered roof. Repair of small gauge RR cars belonging to Plt. Bldg equipped with a bridge crane traveling from E to W 7m high cap of 10 tons. Bldg contained metal scissors, bending machines, 2 lathes, 2 forges, workbenches and dressing rooms. Approx 20 men and women worked here per shift.

89. ADMINISTRATION BLDG. Single story brick, approx 8x6x6m, low angle tarpapered roof. Divided into administration offices, a laboratory and a first aid station of Steel Foundry (Pt 87)

90. WATER BASIN approx 7x5m, serving as fire-pond.

91. BLDG. Single story brick, low angle tarpapered roof.

A. Storage Section. Approx 25x10x5m, storage of fire-proof bricks, used in Steel Foundry (Pt 87)

B. Smithy. Approx 12x5x6 to 8m. Contained one drilling machine, 2 welding sets and 2 forges. Unkn repair purposes.

C. Transformer Station. Approx 5x5x5m, contained 3 oil-cooled transformers of Polish make. Section not yet completed when S departed. Transformers were delivered and installed by mechanics of plt located in KATTOWICE (5016N/1903E). Transformer station will later serve all equipment of civilian air defense such as telephone system, loudspeaker sirene, emergency lighting, air vents etc.

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92. NEW WATER TOWER. Constr in 1957. Brick tower approx 30 to 35m high and 15m in dia. Water pumped into containers in tower by pumps installed in Pumping Station (Pt 48). Tower had flat concrete platform on top secured with an iron railing 1.2m high. Anemometer and telephone installed on top. Platform will be used as air-raid lookout in case of emergency. S heard it was not planned to install AA guns on platforms.

93. LATHE SHOP. Single story brick structure. Used for finishing RR car wheels, axles and complete wheel-sets in addition, various smaller unimportant items.

A. Repair Shop. Approx 15x8x3 to 4m, low angle tarpapered roof. Used for repairing machines installed in entire Lathe Shop (Pt 93). Section was divided into repair shop, welding section and a storage section for replacement parts.

B. Administration. Approx 22x8x3 to 4m, low angle tarpapered roof. Divided into offices of the Lathe Shop (Pt 93)

C. Workshop #1. Approx 52x8x8m, low angle tarpapered roof. Equipped with two cranes traveling 6m high from E to W a cap of 3 tons, equipped with chains and hooks. Section used for rough preparation of RR car axles. Approx 15 men worked here per shift.

a. Three Lathes. Polish origin, type "PORIMBA"

b. Lathe. Polish make, for cutting circular steel blocks axles into correct sizes.

c. Three Metal Saws. Polish origin. Blade was 1.2m long. For rough cutting of ingots into approx sizes.

d. Drilling Machine. Polish origin. Drilling already out steel blocks for axles, blocks could be held by chucks of lathes.

D. Workshop #2. Approx 52x8x8m, low angle tarpapered roof. Equipped with two cranes traveling 6m high from E to W cap of 3 tons, equipped with chains and hooks. Section used for turning RR car axles. Approx 15 to 20 men worked here per shift.

a. Eight Lathes. Polish origin, type "PORIMBA". Used for rough turning of axles.

b. Automatic Machine. Under dismantling when S departed. A already removed all electric cables and wires from machine. S heard machine was too old.

c. Storage Area. Axles roughly prepared in Workshop #1 (Pt 93C) were stored for further preparation.

E. Workshop #3. Same constr details as Workshop #2 (Pt 93D) for finishing RR car axles. Approx 20 men worked here per shift.

a. Nine Lathes. Polish origin, type "PORIMBA". Each 5 to 6m long.

b. Two Lathes. New machines arrived at plt in Nov 1957. Used for cutting threads on RR car axles for electric trains and exported to Yugoslavia.

C. Milling Machine. English origin, old machine for milling a slotted hole into axles and exported to Yugoslavia.

F. Workshop #4. Same constr details as Workshop #2 (Pt 93D) Used for cleaning and checking turned axles. Approx 10 men worked here per shift.

a. Three Polishing Machines. Polish origin.

b. Test Stand. Polish origin. Testing axles for defects. Done by magnetizing the axles with low tension of 240 volts. A mixture of oil and certain powder (unkn to S), was spread over magnetized axle and steel could be checked for fractions etc.

G. Workshop #5. Same constr details as Workshop #2 (Pt 93D), but 20m wide, without cranes. Several RR tracks laid into surface of shop on which complete wheel-sets were manually moved. Section employed approx 30 men

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and women per shift, engineers from different countries, took over products in this section. S learned all engineers spoke German.

a. Test Stand. Same as Test Stand (Pt 93 Fb) but for complete wheel-sets.

H. Workshop #6. Same constr details as Workshop #2 (Pt 93D). Used for turning wheel-tires wheels and complete wheel-sets. Shop employed approx 70 men and women per shift.

a. Five Vertical Lathes. Old machines, Polish and German origin, for preparing wheel-tires.

b. Press. Polish origin, cpa 3,000 ATU, for hydraulic pressing of cold wheels on cold axles.

c. Finishing Lathe. Polish origin, German prototype. For profile finishing of complete wheel-sets.

d. Polishing Machine. Polish origin, for polishing axles.

e. Two Finishing Lathes. Same use as Finishing Lathe (Pt 93 Hc)

f. Centering Machine. Old German machine, type "HEGEN-SCHEID". For centering complete wheel-sets.

g. Balancing Machine. Manufactured by pnt itself. Yugoslavs asked for machine to balance their wheel-sets for electric trains because of capacity of electrical contact of wheels. Capacity of contacts measured in ohm. S did not remember cap in ohm, was somewhat like 0,0005 ohms.

h. Polishing Machine. Polish origin for polishing axles exported to USSR.

i. Finishing Lathe

j. Press. Same as Press (Pt 93 Hb)

k. Two Rolling Machines

l. Pre-Heating Furnace. Polish origin gas operated

used for making wheel-tires red hot had to be hotly fitted on the wheels by order of Russians.

m. Automatic Machine. German origin, type "MAGDEBURGER" hydraulically operated, for turning RR car wheels, equipped with 6 supports and 7 disks.

n. Small Vertical Lathe. Polish origin, for centering purposes.

o. Five Vertical Lathes. Polish origin, type "PORIMBA" for turning wheels.

I. Workshop #7. Same constr details as Workshop #2 (Pt 93D) Shop employed approx 80 men and women per shift.

a. Five Vertical Lathes. German and Polish origin, for turning wheel-tires.

b. Five Finishing Lathes. Same as Finishing Lathe (Pt 93 Ho)

c. Polishing Machine. Polish origin, for polishing axles.

d. Press. Same as Press (Pt 93 Hb)

e. Four Induction Furnaces. Polish origin, electrically operated. Same use as Pre-Heating Furnace (Pt 93 Hl)

f. Two Vertical Lathes. Polish origin, type "PORIMBA" for turning cylinders for RR car wheels which had bushings.

g. Automatic Machine. Same as Automatic Machine (Pt 93 Hm).

h. Five Vertical Lathes. Polish origin, type "PORIMBA" for turning wheels.

i. Drawing Machine. Polish origin for drawing wheel-

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tire wheels.

94. BLDG. Two-story brick, approx 50x10x6 to 8m, low angle tarpapered roof. Divided dressing room for men and women.

95. MASONRY WALL.

96. CRANE SUPPORT. Steel I-beam approx 10m apart and 10m high. Two rows of steel beams approx 15m apart.

97. TWO BRIDGE CRANES. Cap of 15 to 20 tons.

98. STORAGE AREA. Approx 65x15 to 18m, for open storage of axles, wheel tires, RR car wheels, complete wheel-sets, iron parts, pipes, angle iron, round iron etc.

99. BLDG. Two story brick, approx 25x10x6 to 8m, low angle tarpapered roof. First floor a storage section for sheet metal, angle iron, round iron, rivets, nuts, screws, bolts. Tools to repair machines installed in Lathe Shop (Pt 93) and muriatic acid in carboys. Second floor divided into calculating office of plt and a section dealing with accidents. No details.

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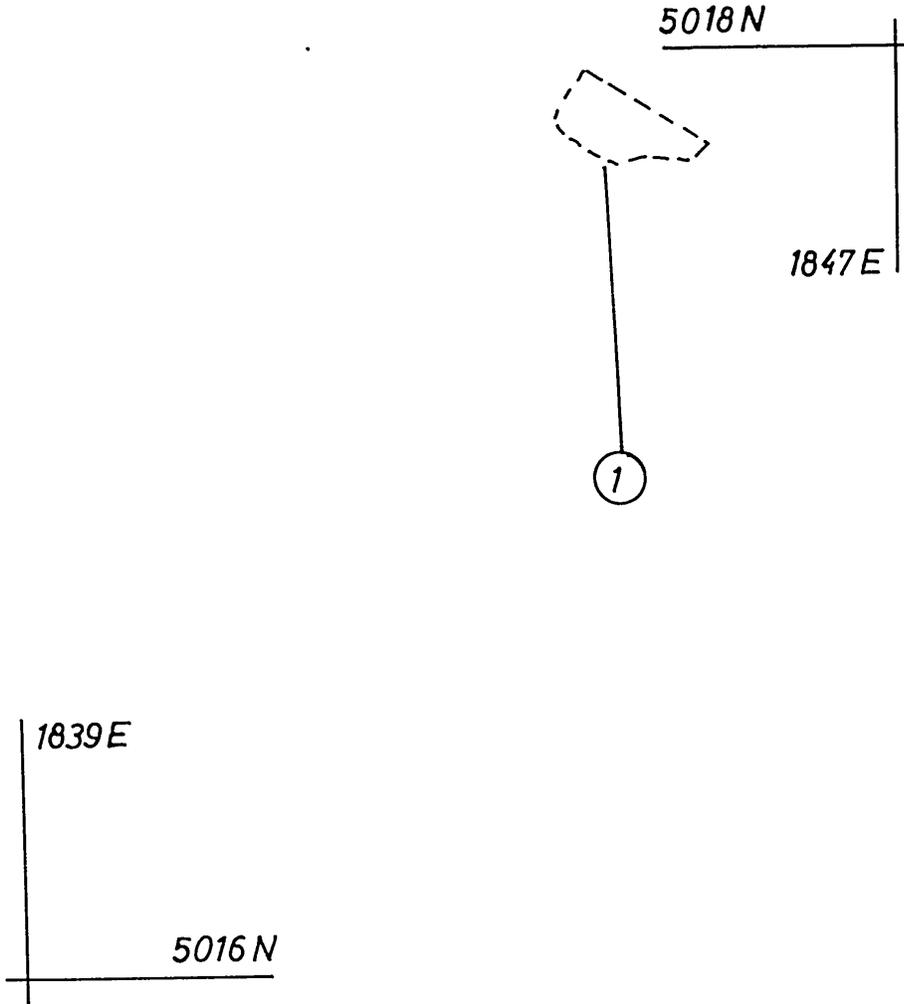
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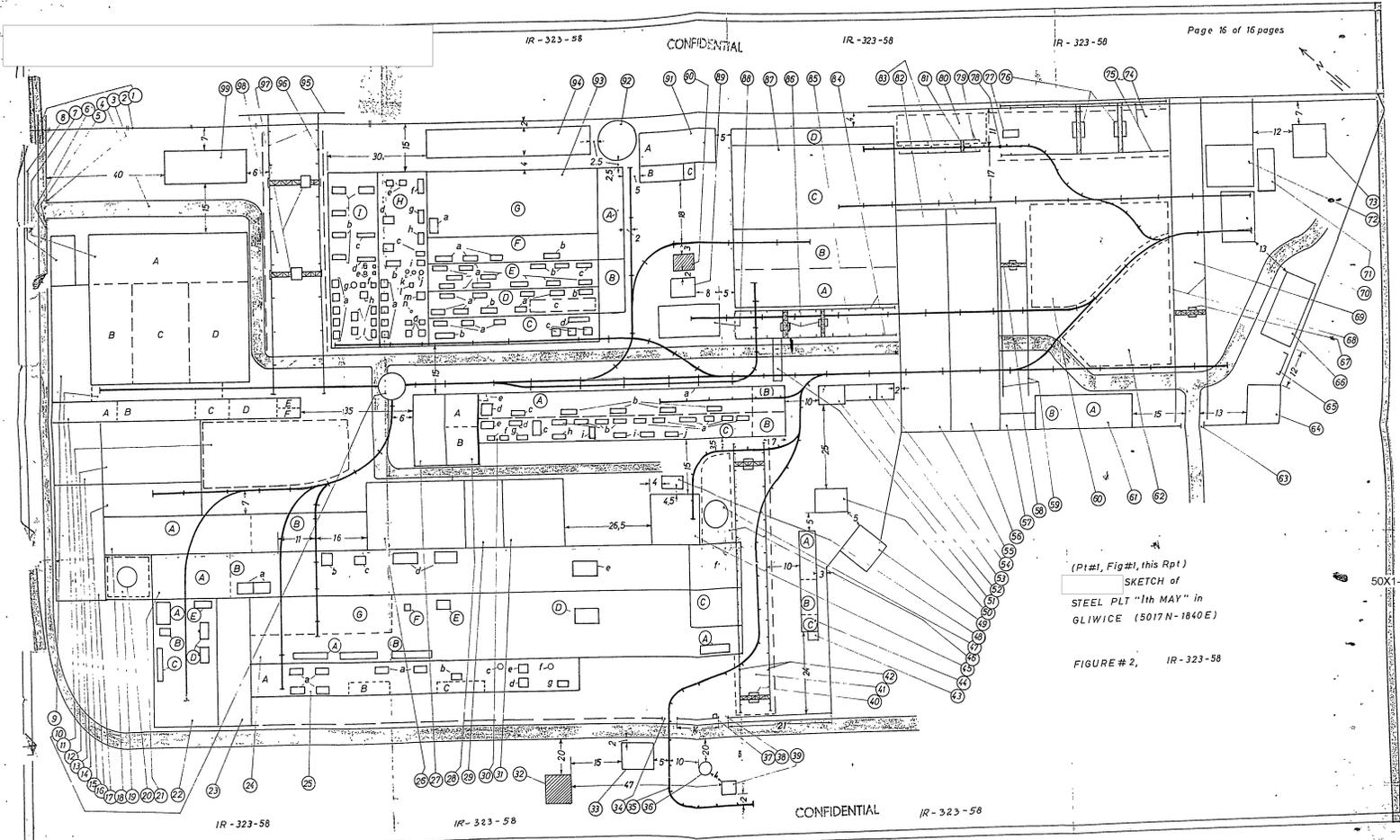


OVERLAY OF TCl. 023209965015-25M OF
GLIWICE-SOSNOWIEC AREA
(5017N/1840E)



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(Plat, Fig#1, this Rpt)
SKETCH of
STEEL PLT "1th MAY" in
GLIWICE (5017 N-1840 E)

FIGURE # 2, IR - 323 - 58

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