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18 yr.	2	SECRET SECURITY INFORMATION		50X1-HUM	
COUNTRY	USSR (Sverdlovskaya a Oblasts)	nd Molotovskaya	REPORT		1
SUBJECT	<ol> <li>Zavod No. 518 at</li> <li>Solikamsk - Chuso Line</li> </ol>	Sumz Vodostroy vaya Railroad	DATE DISTR. NO. OF PAGES	3 December 195	3
DATE OF INFO.	Line		REQUIREMENT NO.	50X1-HUM RD	
PLACE ACQUIRED			REFERENCES		
		LUATIONS IN THIS REPORT		50X1-HL	
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fenced-in area about  $l_2^{\frac{1}{2}}$  km long and 500 to 800 metres wide. There was one large brick building inside this compound and the works were always guarded by military and civilian guards. At night, dogs were also used for guarding and were placed in 50-metre runs between wire fencing along the perimeter.

The ZAVOD stands somewhat off the road, and in the area between the road and the works a small landing ground has been constructed. This is used practically every day by a small U.2 biplane (KUKURUZNIK) which is used chiefly as a transport aircraft (see below).

On the opposite side of the road a railway runs parallel to it, with a railway station for the SUME settlement and also locomotive sheds.

A little way north of the ZAVOD is the MEDZAVOD (mainly a copper smelting plant)

Both ZAVOD No. 518 and the MEDZAVOD were connected to the main railway line and several industrial sidings fanned out inside the two compounds. There was also an interconnecting siding.

(a) Production

this ZAVOD was producing various copper and brass pipes and tubes (TRUBY), as well as MEL'KHIOROVYE (electroplated) TRUBY for aircraft, tanks and motor vehicles. this latter product was the most important: the pipes were silver in colour and the metal was soft, somewhat like lead.

These MFL'KHOROVYE TRUBY were transported every other day, and sometimes daily if stocks were ready, by the U.2 biplane to an unknown destination. \_\_\_\_\_\_ on one occasion the Director himself flew to MOSCOW in this plane, taking with him

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	sometimes flew to	to the Director of th	identally, this	biplane .	
	During the w cartridge and shel	ar this ZAVOD was swit l cases.	sched to the menu	facture of	
• •	copper smelting an normal copper ore, plant for re-melti material, includin some of thi cases exploded, de special part of th "suspicious object	worked in conjunction d re-melting plant. cld copper scrap was ng. This scrap cons g old shells. s scrap was being re-m stroying one of the fu e yard at the plant wa s", which were later t	Besides the sme also delivered t sisted mainly of melted, one of th rnaces. After s allocated for	lting of o this old war ]in 1949, 50 e shell this, a 50 these	X1-HUM X1-HUM
	elsewhere.	· · · · ·		50X1-HU	M
	on copper, other m	although this etals were also re-mel	plant was mainly ted here.		
:	(b) <u>Transport</u>	н то стала стал На стала с	· · · · ·		
	With the exc all supplies and d by the railway.	eption of the aircraft eliveries to No. 518 a	service mention nd the MEDZAVOD	ed above, were carried	· · · · · · · · · · · · · · · · · · ·
				· · · · · · · · · · · · · · · · · · ·	50X1-HUM
	for any such purpo	ses.	the CHUSOVAYA r.	lver used	
	(c) <u>Supplies of o</u>	re		50X1-HUI	М
	about 15 kilometre:	DD came direct by rail s SW of REVDA. DEKH	TYARKA is on the	rude copper , which is 50	X1-HUM
	a fa	airly large tar (DYOGO	I') producing pla	ant exists. 50)	(1-HUM
	Some other of	opper supplies came fr	om REVDA,		DX1-HUM
	(d) <u>Water supply</u>	•			
	irom the nearby SUN was another main so large natural lake two other sources w the works in some m	ith pumping stations, marshy area and another	USOVAYA River. y from REVDA, fro	There om the there were 50) orth of 50	K1-HUM X1-HUM
	to the works by pig	e-lines.			X1-HUM
•	There was thu these pumping stati	s a continuous supply ons (VODONASOSNYE STAN	of water, even w MTSII) were out o	when some of of action.	
	(c) <u>Setilement DOK</u>				
	POSYOLOK DOK,	south of the works or	the road to REA	/DA, was a	
			/se	ettlement	

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settlement belonging to the No. 518 Works and where most of the married workers and their families were billeted.

Most of them travelled by railway to work, but there was also a bus service organised by the ZAVOD.

## SOLIKAMSK - CHUSOVAYA Branch of the PERM Railway, with industrial details

This railway line is officially known as the SOLIKAMSK Branch (SOLIKAMSKAYA VETKA) of the Film Railway (PERMSKOF ZHELEZNOF DOROGI). It is a single track with a fair number of passing loops at stations and halts, and is of the normal Russian gauge (5 feet). With the exception of the section from UTYOS to CHUSOVAYA, the railway runs through difficult mountaincus country, where a second track could

be built only with great difficulty and expense.

The railway from MOLOTOV (PERM) to CHUSOVATA Junction and then to SOLIKAMSK is electrified throughout, using the normal overhead system. Electric locomotives (ELEKTROVOZY) are used for both passenger and goods work, but quite a number of steam locomotives are still in operation and are also available in case of current failures, which frequently occur in the summer months during the thundery period.

The automatic block system of signalling is now in operation from CHUSOVAYA to KIZEL and the ordinary semaphore (manual) from KIZEL to SOLIK MSK. Equipment for the conversion of the KIZEL SOLIKA-ISK stretch to the automatic block system has been ordered but not yet delivered.

Traffic consists chiefly of long heavy goods trains, sarrying mainly coal. There are also a very limited number of passenger trains for local service as well as fast (SKORIS) traffic to MOLOTOV (PERM).

## (a) SOLIKAMSK Station

SOLIKAMSK Railway Station is fairly large, with eight tracks and sidings, and is the northern terminus of the SOLIKANSX -CHUSOVAYA Branch Railway. It possesses the only brick-built station building on this branch; all other stations still have wooden buildings.

A locomotive shed exists at this station and is used for both electric and steam engines. Coal and water supply.

Signal boxes for the manual semaphore system in operation.

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Annexe 2 to this Appendix gives the track lay-out of this tation and sidings leading off to other points.	• •
At the northern end of the station three tracks lead off,	50X1-HUM
(1) This line leads to about 6 works situated in the town of SOLIKAMSK itself.	ng 50X1-HUM
/plan*	

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	plant where old tanks (military vehicles) were down (PIRELIVKA). There was also a large the Works surrounded by a fence, which had about 6 c within the area with numerous interconnecting p various lengths and sizes. To work at these was considered dangerous by the local populatio to some poisonous fumes there. The labour em at these Works was practically entirely forced	mical himneys ipes of Works n owing ployed labour
•	from the numerous concentration camps (ITL) sur the town of SOLIKAMSK. there were some salt mines nearby and factories	processing 50X1-HUM
	the salt.	50X1-HUM
	(2) The destination of this track is unknown	
	(3) This siding proceeded into some woods nearby	
	<ul> <li>(4) A dead-end siding (TUPIK) used for loading and of material and stores for the various factorie works in this area. Food supplies for the numforced labour camps were also unloaded here.</li> </ul>	s and
	(5) A siding leading to the Soda Works These work were surrounded by a barbed wire fence and were by soldiers with red shoulder-boards. Dogs we employed for guarding.	rks guarded ere also 50X1-HUM
	(6) Main line track south to CHUSOVATA.	·
		• 50X1-HUM
	SOLIKAMSK is at the 27 km post is USOLSKAYA Railway Station, where the km post measurement fro CIUSOVAYA ends (at 206 km post) and a new numbering begins a as SOLIKAMSK:	m
	(b) USOLSKAYA Station	
	About 4 km before reaching USOLSKAYA a new line branch to the NE is now under construction. this new railway will go to KIROV (?).	50X1-HUM
	This large railway station is the official station for town of BERFZNIKI. It possesses a wooden passenger static locomotive and waggon sheds, coal and water supply and signa for the manual semaphore system in operation.	n.
	Annexe 3 gives the track lay-out of this station with the following points of interest marked t	shereon: - 50X1-HUM
•	(1) A siding leading to some works or factory.	50X1-HUM
	(2) A cuort siding used by the railway maintenance w (PUTREM).	nit
• `	(3) A short spare siding.	
	(4) Main line to SOLIKAMSK.	. •
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	(5)	Double track leading to SOLIVARNI.	
	(6)	Siding leading to the BEREZNIKI "Soda" Works. these works are some way away from this station, are very large, and stretch to SOLIVARNI Station. <u>Although they are</u> known	50X1-HUM
1		locally as Soda Works, the manufacture of soda was only part of their function,	50X1-HUM
·		Opposite the works on the other side of the railway there were several large tanks which were for storage . A pipe-line also led away from these works across the railway to some small works	50X1-HUM 50X1-HUM 50X1-HUM
•		in the distance. This pipe was built off the ground. These works were guarded by soldiers and forced	50X1-HUM
	()	labour was employed.	50X1-HUM
	(7)	A special siding used entirely by trains that arrived periodically for the "Soda" Works.	50X1-HUM
	(8)	Rcilway sheds. 50X1-HU	M
	<b>(9)</b> .	$\Lambda$ new goods station and sidings under construction.	
	(10)	Main line to CHUSOVAYA.	
•	()1)	A siding leading to a works or factory.	50X1-HUM
	(12)	Coal dump for steam locomotives. The Public Baths are situated nearby. a new passenger station will be built in this area and will connect with the main line in the neigh- bourhood of the new goods station new under constr- uction.	50X1-HUM
	(13)	A track triangle used for turning locomotives as there is no turn-table at this station.	
	(14)	Sheds for electric and steam locomotives.	
Soon over a stre	after cam.	leaving USOLSKAYA there is a small steel bridge	
double-tra	rack la cked, i	line that leaves USOLSKAYA Station at (5) (on the ay-out) and proceeds NW to SOLIVARNI is shown as but only one track is used for direct traffic and industrial line belonging probably to the "Soda"	
not far awa	ay fro	is a port on the river KAMA and <u>a jetty is situated</u> m the railway station	50X1-HUM

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	Annexe 4 represents the track lay-out of SOLIVARNI station: -	
	(1) A spare siding.	
	(2) The destination of this track is unknown	50X1-HUM
	(3) to the river jetty.	
	(4) Siding to the "Sod <u>a" Works which are about 150 metres</u> away. This linealso connects with a salt mine.	50X1-HUM
		1-HUM
	A small halt between BEREZNIKI and SHISHI, not marked	
	siding (Annexe 5).	
	(1) Main line to SOLIKANSK 50X1-HUM	
	(2) Siding	· · ·
	(3) Main line to CHUSOVAYA.	
	(d) SHISHI Holt	
	A halt with three loop lines and a siding. Annexe 6:	
	(1) A siding used for loading timber which is brought here by tractors from the nearby forests. 5	0X1-HUM
	(2) Main line to SOLIKAMSK.	
	(3) Main line to CHUSOVAYA.	
	(c) LYUZEN Halt	
· .		
	A shall halt with a passing loop and one siding. Annexe 7:	
	(1) Main line to SOLIKANSK	1
	(2) Main line to CHUSOVAYA	· .
	(3) Siding to Transformer Station.	
	(f) <u>YAYVA Station</u>	
	A small station with five loop lines and sidings. Water supply, tower and filling-up point at the SOLIKAMSK end of the tracks. A small steel flat bridge over the YANVA just before reaching the station.	· ·
	Annexe 8:	
	(1) A siding leading to Wood Finishing Works, general	• •
	carpentry and prefabricated houses (Finnish type).	
	(2) Main line to SOLIKAMSK.	
	(3) Spare siding.	

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# (4) Another spare siding.

(5) Main line to CHUSOVAYA.

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- (6) A siding used for loading railway sleepers. They are also impregnated at this spot.
- (7) Siding to the SHPALOREZKA, where railway sleepers are made.

The last two locations are outside the railway station area.

### (g) <u>VILVA Station</u>

This station is composed of three loop lines and sidings. Water tower and filling-up point at SOLIKAMSK end of the tracks.

#### Annexe 9:

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- (1) This siding leads to a quarry where rocks (SHCHEBEN) of various colours are mined.
- (2) Main line to SOLIKAMSK.
- (3) L siding where large glass bottles of acids in baskets were loaded and unloaded onto a narrowgauge railway. Some of these bottles had labels with skull and cross-bones on them.
- (4) Main line to CHUSOVAYA.
- (5) and (6). Sidings to a quarry. The rock (SHCHEBEN) is taken by the railway to the Soda Works at SOLIKAMSK, SOLIVARNI and USOLSKAYA.
- (7) A siding used for shunting.

## (h) KOPI Station

A station with four loop lines and two sidings, also a branch line to LUNEVKA. Water tower and point at the CHUSOVAYA end of the station.

KOPI Station is the official station for the town of ALEKSANDROVSK, which lies to the north.

Annexe 10:

- (1) Main line to SOLIKAMSK.
- (2) Siding to Transformer Station.
- (3) Main line to CHUSOVAYA.
- (4) Branch line to LUNEVKA, about 8 km away, a small settlement where a guarry and a brewery are located.

the material mined SHCHEBEN.

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(5) Sidings to three works. Small electric locomotives and waggons for mines are produced here. Also small lathes (STANKI). Most of the items produced by these three works already packed in wooden orates and loaded onto open platform railway, two to three orates. 50X1-HUM

### (i) RASIK Halt

A small steel bridge over a stream just before entering this halt from the north. This halt consists of three loop lines and a siding.

Signal box for the manual semaphore system in operation. Single type of semaphores in use here on each of the tracks and operated by the box at the SOLIKAMSK end of the tracks.

Annexe 11:

- (1) Main line to SOLIKAMSK.
- (2) Siding used for loading of timber by forced labour. Two large forced labour camps, one for men and the other for women, are situated close to this station.
- (3) Main line to CHUSOVAYA.

#### (j) KIZEL Station

A large passenger and goods station and the H.Q. of the SOLIKAMSK - CHUSOVAYA Branch of the PERM Railway.

This station possesses a locomotive shed, water and coal supplies and from here to CHUSOVAYA the signal system is entirely automatic block system (SVETOFORY).

Annexe 12:

- (1) A coal train forming station called PREDKIZEL.
- (2) MYASOKOMBINAT, a meat factory producing various meat products, including sausages.
- (3) Shunting lines used only by coal trains.
- (4) Siding to four coal mines, including FRUNZE, LENIN and VOLODARSKIN Mines.
- (5) Further west of this point the RUDOREMONTNIX ZAVOD is situated. it does produce alumin-
- 50X1-HUM
- ium cooking utensils and other metal ware.
- (6) Main line to SOLIKAMSK, with steel bridge over the road.
- (7) Locomotive turn-table.
- (8) Railway authorities' polyclinic.

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- (9) Maintenance office of the Railway.
- (10) and (11) Railway hostels.
- (12) KIZEL Railway Station.
- (13) BLCKPOST: main signal box for the automatic block system in operation.
- (14) Railway Administration offices (UPRAVLENTE ZHELEZNON DOROGI).
- (15) Railway communications office (KONTORA SVYAZI).
- (16) Five store houses along a siding.
- (17) Railwaymen's Club.
- (18) Main line to CHUSOVAYA, small bridge at the exit.
- (19) Siding used by the maintenance gangs (PUTREM).
- (20) Railwaymen's stores and shop.
- (21) Steel footbridge.

a lathe works (STANKOVYY ZAVOD) is 50X1-HUM located outside KIZEL towards the next station, OBOGOTITEL. These works manufacture lathes and other machinery and are situated near a POSYOLOK called DOMINNYY UGOR.

KIZEL station is at km post 113 from CHUSOVAYA, where the numbering begins.

(k) OBOGATITEL Helt

This halt is 110 km from CHUSOVAYA and serves a settlement called KOSPOSH. The halt possesses 4 loop lines (5 tracks altogether), with two sidings.

Annexe 13:

(1) Siding serving several coal mines.

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- (3) Main line to SOLIKAMSK.
- (4) Main line to CHJSOVAYA.
- (5)

(6) Wooden passenger station building.

(1) NYAR Halt

A halt with four passing loops and two sidings.

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#### Annexe 14:

- (1) A short spare siding.
- (2) Main line to SOLIKAMSK.
- (3) Siding connecting four coal mines and a settlement (POSYOLOK).
- (4) Main line to CHUSOVAYA,
- (5) Wooden passenger station building.
- This halt is 104 km from CHUSOVAYA.

#### (m) POLOVINKA Station

UGLEURALSK. It possesses five passing loops and three sidings, and a new branch line to MOLOTOV still under construction.

Annexe 15:

- (1) Main line to SOLIKAMSK.
- (2) The new branch line to MOLOTOV under construction, which is expected to be opened this year. Goods traffic was supposed to be operating on this new line last year, but owing to heavy falls of earth at several newly-built outtings it was found impossible to bring this line into operation. This new line has teen built entirely by Soviet Army Engineer Units (Railway Troops).
- (3) An unloading ramp next to a store house (9).
- (4) Wooden passenger station building.
- (5) Siding serving a number of coal mines.
- (6) Main line to CHUSOVAYA.
- (7) This station is being enlarged and new tracks are being laid in this area.
- (8) Siding leaving into the forest where forced labour were loading timber.

The station has a water tower and filling-up point for the steam locomotives.

## (n) NAKLONNYY Halt

A small halt with one passing loop and a new industrial siding under construction.

#### Annexe 16:

- An industrial siding under construction and not connected to the main line yet. It will lead to 18 ccal mines which are now being opened up and will be in operation in 1954-55.
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(2) Main line to SOLIKAMSK

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- (3) Wooden passenger station building.
- (4) Main line to CHUSOVAYA.
- (o) <u>GUBAKHA Station</u>

A large station with 12 tracks and a side line leading to the ZAVOD KOKSOKHIM.

This station is officially known as Lower GUBAKHA Station and possesses a BLOKPOST, locomotive sheds and coal and water supply.

Annexe 17:

- (1) Sheds for electric locomotives (ELEKTROVOZOV).
- (2) VAGONOLOVITEL.
  - the railway line coming in from the CHUSOVAYA direction is very "bumpy" and badly laid and maintained with a number of "humps" in it. When heavy coal trains pass over this section \_\_\_\_\_\_ owing to these "humps" frequently become un-coupled and for safety are then diverted to this deadend siding (TUPIK).
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- (3) A siding leading to several coal mines about 4 km away.
- (4) Main line to CHUSOVAYA.
- (5) Wooden passenger station building with two platforms.
- (6) BLOKPOST, main signal box for the automatic block system in operation.
- (7) The GUBAKHA ZAVOD KOKSOKHIM and the GRES on the river KOS'VA. A private siding leads from the main line to the ZAVOD, where it fans out into six industrial sidings, inside this large complex. The ZAVOD is a chemical and coking plant producing various by-products from coal, including saccharine. It is a large brick-built complex of several buildings with 2 or 3 square-shaped cooling chimneys. The KIZEL GRES is a hydro-electric power station on the river KOS'VA and adjoins the Chemical and This is the largest power station Coking Plant. in this area and is supplied with coal from the numerous coal mines in this district. The electric power produced is supplied to the local industrial enterprises, to the electric railway system and for general use in the towns and settlements.
- (8) Main line to SOLIKAMSK.

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(9) This siding leads to 2 or 3 ccal mines situated by the river KOS'VA.

(10) This line leads to the Upper GUBAKHA Station, about 1 km away towards SOLIKAMSK, and serves three coal mines located there.

A short distance south of GUBAKHA Station the line crosses a two-span steel bridge over the KOS'VA river.

all bridge spans

(p) <u>KOS'VA Halt</u>

A small halt with two passing loops and a siding to a coal mine. There used to be a third loop line, but it is no longer in use and the points at both ends have beer removed.

Annexe 18:

- (1) A siding leading to a coal mine.
- (2) Main line to SOLJKAMSK.

used on this railway were of a standard length.

- (3) Main line to CHUSOVAYA.
- (4) Wooden station building.
- (5) A disconnected passing loop no longer in use.
- (q) NAGORNAYA Halt

A halt with four passing loops (five tracks altogether) and iwo sidings.

Anneze 19:

- (1) A short siding used for cleaning and maintenance of locomotivez.
- (2) Sidings to local coal mines.
- (3) Main Line to SOLIKAMSK.
- (4) Main line to CHUSOVAYA.
- (5) Water tower with filling-up point at X.
- (r) RAZVEDKA Halt

This used to be a halt with two passing loops, but they have been disconnected and the points taken away. At present there is just one main track; the other two are covered with weeds, and will in due course be removed altogether. No track lay-out is annexed for this disused halt.

(s) <u>US'VA Station</u>

A small station with six tracks and four sidings.

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Annexe 20:

- (1) Main line to SOLIKAMSK.
- (2) Siding used for loading and unloading.
- (3) A store house next to (2).
- (4) Wooden station building with one platform.
- (5) Main line to CHUSOVAYA.
  - (6) A siding to a coal mine lying very close to station. this mine was opened up before the Revolution.
- (7) A new siding leading to an area where 23 new coal mines are in the process of being opened up. This should be completed within the present Five-Year Plan, i.e. by 1955.
- (8) Siding to a transformer station.

South of this station there is a two-span steel bridge over the river US'VA.

#### (t) MAKHOVATNYA Halt

This is another disused halt. At present there is only one main track and the passing loops have been removed. A short siding to a transformer station.

This halt is usually called MAKHOVATKA by the locals.

No track lay-out has been annexed for this halt.

(u) <u>BASEK Halt</u> BASSEG

A small halt with a passing loop. Two other loop lines have been disconnected and points removed.

Annexe 21:

- (1) Main line to SOLIKAMSK.
- (2) Main line to CHUSOVAYA.
- (3) Two disconnected passing loops due to be removed altogether.

#### (v) BASKAYA Station

This station possesses eight tracks, several sidings and four shunting sidings for coal trains. It serves the local coal mines and a settlement called CREMYACHLX

Annexe 22:

(1) Siding leading to a coal mine.

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- (2) Siding to a locomotive shed for 3 or 4 locos.
- (3) This siding serves a number of coal mines.
- (4) Main line to SOLIKAMSK.
- (5) A short siding where a number of carriages belonging to maintenance gangs (PUTREM) are stationed.
- (6) Water tower with filling-up point at X.
- (7) Main line to CHUSOVAYA.
- (8) Shunting lines used by coal trains.

## (w) ZAGOTOVKA Halt

A small halt with a passing loop line and three sidings.

Annexe 23:

- (1) A siding where the electricians (KONTAKTNIKI) maintaining the electric railway have a small depot and workshops. Their DREZINA (railway inspection trolley) with a ZIS engine on it is parked here.
- (2) Main line to SOLIKAMSK.
- (3) A short siding used once weekly by the VAGON-LAVKA, a visiting mobile shop for the railway staff. This \_\_\_\_\_\_shop moves all along the line and supplies the railway staff with shopping facilities.
- (4) Main line to CHUSOVAYA.
- (5) A siding into the forests.

km before reaching ZAGOTOVKA from KIZEL.

(x) UTYOS Station

A small station with a total of five tracks and two sidings.

Annexe 24:

- (1) Main line to SOLIKAMSK.
- (2) A tunnel 1.25 metres long north of the station, but further away than drawn on this Annexe.
- (3) A siding outside the station to a gypsum quarry.
- (4) A siding used for unloading of gypsum brought by rail from (3) for the Alabaster Works located here.
- (5) Main line to CHUSOVAYA.

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50X1-HUM

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50X1-HUM

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(6) Siding to transformer station.

(7) Alabaster Works (kilns).

(y) ANTXBARY Halt

A large halt with seven tracks and a short siding.

Annexe 25:

(1) A short siding used by maintenance gangs (PUTREM).

- (2) Main line to SOLIKAMSK.
- (3) Main line to CHUSOVAYA.

This station is at 10 km post from CHUSOVAYA.

On leaving this station towards CHUSOVAYA a small concrete bridge over the CHYORNAYA River is passed.

(z) CHUSOVAYA JUNCTION Station

50X1-HUM

50X1-HUM

50X1-HUM

this important railway junction as it was outside the SOLIKAMSK Branch administration

it was a large railway junction where the SOLIKAMSK Branch joined the main line of the PERM Railway going east and west. As already stated, the line is electrified to the west just beyond MOLOTOV (PERM) and also to the east

This station possesses locomotive sheds, water and coal supply and a large number of sidings.

On the line to MOLOTOV the railway crosses the CHUSOVAYA River by a four-span steel bridge.

4. <u>Signalling apparatus</u>

As already stated above, the SOLIKAMSK Branch has the automatic block system (SVETOFORY) in operation from CHUSOVAYA to KIZEL and the normal semaphore (SEMAFORY) system from KIZEL to SOLIKAMSK. The latter section is due to be converted to the automatic block system in the near future.

#### Details of apparatus used

(a) Semaphores (SEMAFORY). Normal from KIZEL all the pas one-arm sem all clearar by the tele

Normal two-armed semaphores in use from KIZEL to SOLIKAMSK. At RASEK Halt all the passing loops are equipped with one-arm semaphores. On this section all clearances for trains are effected by the telephone by one duty man to another.

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- 17 -APPENDIX B (b) Discs (DISKI). These discs are fixed to some of the semaphores about half way up the standard and on the opposite side to the arms. When visible they allow the train to proceed up to a station. Invisible, road open. 50X1-HUM Warning discs (PREDMPREDITELNIE DISKI) are placed 500-700 (c) before a semaphore and give the engine-driver the indication whether the semaphore beyond is open or shut. These discs are fixed on top of a separate standard and when visible mean that the semaphore is against the train (shut) and when flat OPEN it is open. SHUT (d) Warning shields (PREDUPREDITEINIE SHITY). These shields are placed before the warning discs, and have one, two and three diagonal lines across them as one nears the warning disc. (e) Electric Signals (SVETOFORY), in operation between KIZEL and CHUSOVAYA, are placed at about 12-km intervals. It is a disc on a standard with four apertures for amber, green or red lights. The meaning of the combination of lights in use at present is as follows: One amber light = can move on main line, but with care. Two amber lights = track open to siding or passing loop. One green light = main line open. One red light = STOP. (f) Whistle sign (SIGNAL DAT'). This is an amber disc on a standard with a black letter C in the middle and the engine-driver must sound his whistle when passing this sign. (g) Warning signal, railway gangs working. Before reaching a gang working on the line one comes across a yellow (amber) disc, which means that the

The whole section of the SOLIKAMSK Branch is connected by telephone The telephone lines run parallel to the railway track, but a little off it, and being frequently close to the forest are periodically cut by falling trees during storms.

train is entering the section where work is

with a similar disc but with a green line

End of section is marked up

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in progress.

across.

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50X1-HUM

C

50X1-HUM<sup>-</sup>

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	5. Locomotives in use	
	Although the entire SOLIKAMSK Branch is now electrified, quite a number of steam locomotives are still in use and also kept for	
	emergency.	
	(a) <u>Electric locos</u> : Only one type of electric locomotive is in operation both for passenger and goods traffic. They are very powerful and possess twice the tractive power of the S.O. (SERGO ORDZHONIKIDZE) steam engines. They have a 0 - 6 - 6 - 0 wheel arrangement with two overhead pick-ups (PANTOGRAF). They possess six motors each, one for each axle. When pulling a normal load	
• •	these locos have only the back pick-up raised, the other one is lowered flat on the roof. With heavy coal trains both pick-ups are raised and in operationeach pick-up supplies current for three of the six motors.	50X1-HUM
	of 96 one of these locos pulling a coal train which with steam requires 2 S.O. locomotives to perform the same work.	. 50X1-HUM
	Electric locomotives are painted either green or blue.	50X1-HUM
-	(b) <u>Steam engines</u> : Steam locomotives are still remained in fair numbers, probably owing to the insufficient numbers of electric locos as yet available and also as a stand-by in case of current failure which frequently occurs, especially in the thundery weather in the summer months.	
	The commonest steam engine in use is the S.O. (SERGO ORDZHONIKIDZE), a large and powerful but slow locomotive. it has a 2 - 10 - 2 wheel arrangement	50X1-HUM
	The other types in use were the S.U., a 2-8-2 passenger loco, and pre-Revolution locomotives (the "EMKA", OVECHKA" and "SHCHYUKA"). The latter two were of 0-10-0 wheel arrangement with tender	50X1-HUM
	All passenger engines were painted green and goods locos black.	
	they used to have quite a number of German goods engines in operation in this area, and converted to the Russian gauge. they seem to have been type 50 or 52 cf the German Railways, built	. 50X1-HUM 50X1-HUM
•	during the war. In 1951 they were all transferred elsewhere, probably to some new railway line	50X1-HUM
	(a) There is a duily fast (SKORYY POEZD) train between MOLOTOV and KIZEL, drawn by an electric loco.	· · ·
-	(b) Also a daily passenger train (PASAZHIRSKIP POEZD) from SOLIKAMSK to MOLOTOV and vice versa. The two trains meet at UTYOS station at about 0400 hours. Electric traction.	50X1-HUN
	/(c)	• •

50X1-HUM

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		(c) A slow electric train (DACHNYY POEZD) between OHUSOVAYA and SOLIKAMSK. Daily service in both directions.	
•	۱.	(d) Five times in each direction between SOLIVARNI and YAWVA. A workman's train pulled by S.U. steam locomotive.	
		(e) Twice a day in each direction between KOPI and LUNEVKA. Locally called "the Express", pulled by an EMKA or OVECHKA steam engine or any other "old crock" available.	1-HUM
Υ.		There used to be another fast train to MOLOTOV called MOLOTOVSKAYA STRELA but it has now been cancelled.	
		50X1-	HUM
		7. <u>Miscellaneous Informatica</u>	•
		(a) Town of KIZEL	
		A rough sketch of the town plan is attached at Annexe 26 to this Appendix, and is self-explanatory.	50X1-HUM
		GUBAKHA was started in 1952 and should be completed within the present Five-Year Plan, i.e. by 1955.	
·		There are some bus services run by the MIZEL UGOL and its mines for their workers, but no municipal transport service what-	50X1-HUM
		(b) Tractor Works at NIZHNIN TAGIL' 50X1-	HUM
		NIZHNIF TAGIL'; during the war it built tanks.	50X1-HUM
		(c) KAMA GES	
		A new hydro-electric power station has been under construction on the river KAMA and is due to be completed and put into operation within the present Five-Year Plan.	
		(d) Forced Labour 50X1-HUI	N
		labour camps in this industrial area.	
		there were numerous camps, and especially around SOLIKAMSK. These political prisoners were employed at a number of works and factories such as the Chemical Works at SOLIKAMSK and the "Soda" Works at BEREZNIKI, as well as on timber work in the forests.	<b>)</b>
		The prisoners were of various nationalities	50X1-HUM
		Finns, Estonians and others.	50X1-HUM
		Up to 1950 many ex-VLASOVITES were also in this area, but they were all removed to an unknown destination.	

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