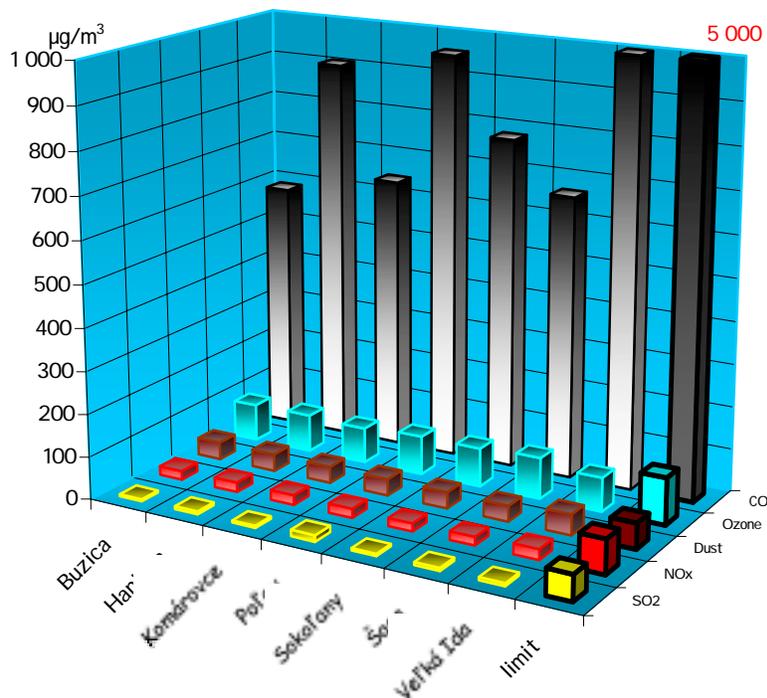


Environmental State Summary '2001
in USSKe surroundings
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MEASURING DATA OF EMISSIONS IN USSKe SURROUNDINGS

Measuring point	Pollutant (Average Yearly Concentration)				
	CO ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	Ozone ($\mu\text{g}/\text{m}^3$)	Dust ($\mu\text{g}/\text{m}^3$)
BUZICA	586	5	21	87	41
HANISKA	905	7	23	88	40
KOMÁROVCE	642	5	23	83	39
POĽOV	957	15	22	91	39
SOKOLANY	778	5	19	91	38
ŠACA	664	7	20	97	37
VELKÁ IDA	1 155	7	25	80	48
LIMIT	-	60	80	110	60

- *The pollution limit is specified by Statutory Order #92/1996 of Codex from March 19, 1996 as amended by the Statutory Order #473/2000 of Codex from December 20, 2000, Appendix #6.*



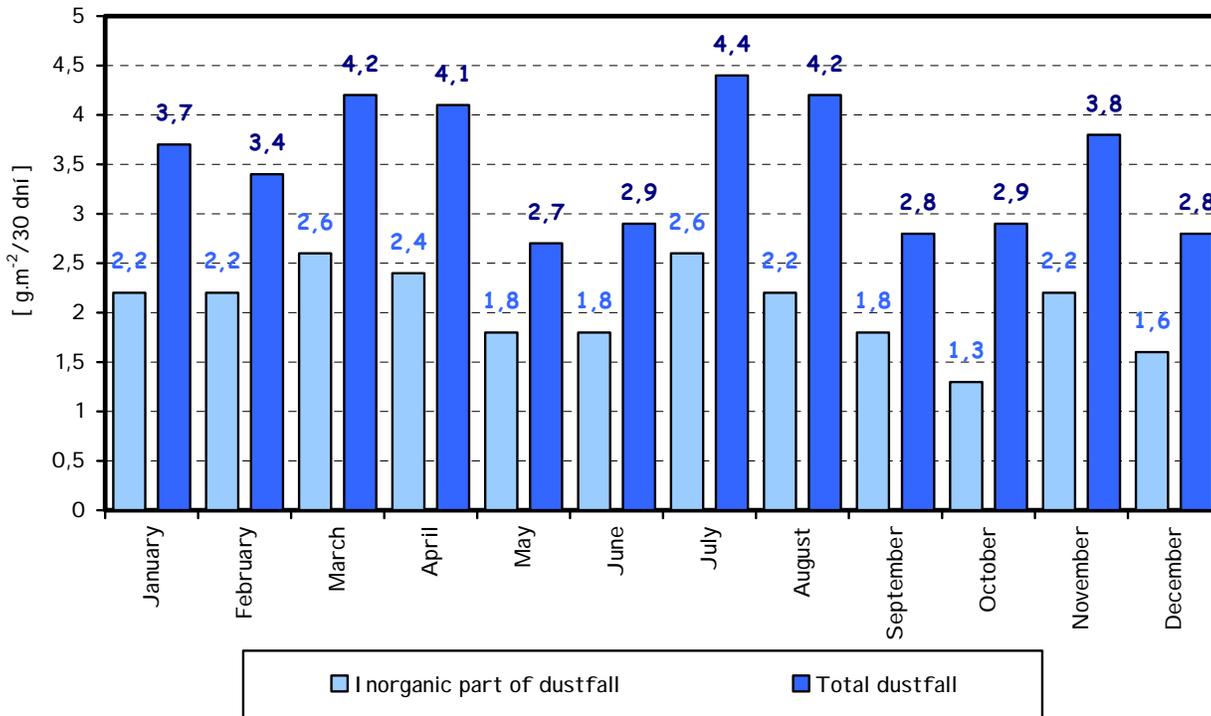
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A DUSTFALL IN USSKe SURROUNDINGS

Dustfall	LIMIT (g.m ⁻² / 30 days)	Average Monthly Concentration											
		Jan.	Feb.	Mar.	Apr.	May	Jun	Jul	Aug.	Sep.	Oct.	Nov.	Dec.
Total	12,5	3,7	3,4	4,2	4,1	2,7	2,9	4,4	4,2	2,8	2,9	3,8	2,8
Inorganic part	-	2,2	2,2	2,6	2,4	1,8	1,8	2,6	2,2	1,8	1,3	2,2	1,6

➤ *The limit is specified by Mandatory measure of Department of Health of SSR, part #5 - 8, from 1981.*

LIMIT 12,5 g.m⁻²/30 days





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CONTAMINATION OF WASTEWATER

RECIPIENT : Sokol'any stream

Indicator	Unit	Measured data	Limit
pH	-	8,75	6 - 9
Conductivity	$\mu\text{S.cm}^{-2}$	1 103	1 400
Cyanides	mg.l^{-1}	0,02	0,2
Phenols	mg.l^{-1}	0,01	0,1
Oil Substances	mg.l^{-1}	0,52	1,5
Total Iron	mg.l^{-1}	0,80	3,0

- *The limit is specified by District Office Košice - County, Decision #2000/04499-OŽP/Kš from November 8, 2000.*

	Actual Amount	Limit
<i>Total amount of purified wastewater discharging into Sokol'any stream</i>	<i>28,420,179 m³/year</i>	<i>32,000,000 m³/year</i>
<i>Total amount of purified wastewater returned into U.S.Steel Košice, s.r.o.</i>	<i>3,582,924 m³/year</i>	<i>-</i>



Environmental State Summary '2001 in USSKe surroundings

(according to law #17/1992 of Codex about environment as amended)

The results of valid pollutant`s measuring made by authorized measuring groups to detect an adherence of emission limit and amount of exhausted pollutants on DP:

Blast Furnaces

Measuring Point	Pollutant	Evaluation	Measured Amount
Ore Bridge BF#1, EO 11	Solid (S)	✘	13,230 kg.h ⁻¹
Ore Bridge BF#1, EO 12	S	✔	8,866 kg.h ⁻¹
Ore Bridge BF#1, EO 13	S	✔	5,190 kg.h ⁻¹
Ore Bridge BF#2, EO 21	S	✔	2,690 kg.h ⁻¹
Ore Bridge BF#2, EO 22	S	✔	7,714 kg.h ⁻¹
Ore Bridge BF#21, EO 23	S	✔	7,308 kg.h ⁻¹
Ore Bridge BF#3, EO 31	S	✘	22,949 kg.h⁻¹
Ore Bridge BF#3, EO 32	S	✔	5,371 kg.h ⁻¹
Ore Bridge BF#3, EO 33	S	✔	3,458 kg.h ⁻¹
Coke Drading plant - Coke Tower, EO 24	S	✔	6,320 kg.h ⁻¹
Spil Station, EO 84	S	✔	8,742 kg.h ⁻¹
	1 st group, 2 nd sub-group of pollutants	✔	2 nd Fee Class (As, Cr, Co, Ni, Sb, Mn, Pb, Zn) 50,6767 g.h ⁻¹
	2 nd group, 3 rd sub-group of pollutants	✔	
Cook&Ore Drading Plant, EO 85	S	✘	14,913 kg.h⁻¹
	1 st group, 2 nd sub-group of pollutants	✔	2 nd Fee Class (As, Cr, Co, Ni, Sb, Mn, Pb, Zn) 33,8338 g.h ⁻¹
	2 nd group, 3 rd sub-group of pollutants	✔	
Coke&Lime Gringing Plant, SGA	S	✘	13,021 kg.h⁻¹



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The results of valid pollutant`s measuring made by authorized measuring groups to detect an adherence of emission limit and amount of exhausted pollutants on DP:

Blast Furnaces

Measuring Point	Pollutant	Evaluation	Measured Amount
Cooling Agglomeration Belt #3, EO 3	Solid (S)	✓	0,066 kg.t ⁻¹ agl.
Cooling Agglomeration Belt #4, EO 4	S	✓	0,061 kg.t ⁻¹ agl.
Cast House BF#2, EO 25	S	✓	0,0997 kg.t ⁻¹ Fe
	SO ₂	✓	0,1532 kg.t ⁻¹ Fe
	NO _x	✓	0,0074 kg.t ⁻¹ Fe
	CO	N/A	0,0908 kg.t ⁻¹ Fe
	1 st group, 2 nd sub-group of pollutants	✓	2 nd Fee Class (Ni, Mn) 0,5032 g.t ⁻¹ Fe
	2 nd group, 3 rd sub-group of pollutants	✓	
Cast House BF#3, EO 34	S	✓	Not Measured
	Cd	✓	Not Measured
	SO ₂	✓	Not Measured
	NO _x	✓	Not Measured
	CO	N/A	Not Measured
	1 st group, 2 nd sub-group of pollutants	✓	Not Measured
	2 nd group, 3 rd sub-group of pollutants	✓	Not Measured
Cast House BF#3, EO 34	S	✓	0,0869 kg.t ⁻¹ Fe
	SO ₂	✓	0,1105 kg.t ⁻¹ Fe
	NO _x	✓	0,0028 kg.t ⁻¹ Fe
	CO	N/A	0,1938 kg.t ⁻¹ Fe
	1 st group, 2 nd sub-group of pollutants	✓	2 nd Fee Class (Ni, Mn) 0,3197 g.t ⁻¹ Fe
	2 nd group, 3 rd sub-group of pollutants	✓	



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The results of valid pollutant`s measuring made by authorized measuring groups to detect an adherence of emission limit and amount of exhausted pollutants on DP:

Metallurgy Secondary Production

Measuring Point	Pollutant	Evaluation	Measured Amount
Spiral - Welding Machine #1, 2 & plasma cutting machine	Solid (S)	✓	0,00104 kg/t of pipes
A Coating Line EI SENMANN EC tank - vent #1	4 th group, 3 rd sub-group of pollutants	✓	0,003 kg.h ⁻¹
A Coating Line EI SENMANN EC tank - vent #2	4 th group, 3 rd sub-group of pollutants	✓	0,025 kg.h ⁻¹
A Coating Line EI SENMANN EC tank - vent #3	4 th group, 3 rd sub-group of pollutants	✓	0,183 kg.h ⁻¹
A Coating Line EISENMANN, Big furnace - vent V1	S	✓	2,6 kg.h ⁻¹
	CO	N/A	6,3 kg.h ⁻¹
	NO _x	✓	4,0 kg.h ⁻¹
	ΣC	✗	206,3 kg.h ⁻¹
A Coating Line EISENMANN, Big furnace - vent V2	S	✓	2,8 kg.h ⁻¹
	CO	N/A	2,7 kg.h ⁻¹
	NO _x	✓	6,8 kg.h ⁻¹
	ΣC	✗	280,9 kg.h ⁻¹



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The results of valid pollutant`s measuring made by authorized measuring groups to detect an adherence of emission limit and amount of exhausted pollutants on DP:

Metallurgy Secondary Production

Measuring Point	Pollutant	Evaluation	Measured Amount
A Coating Line EI SENMANN, Small furnace - vent V3	Solid (S)	✓	4,9 kg.h ⁻¹
	CO	N/A	0,8 kg.h ⁻¹
	NO _x	✓	2,7 kg.h ⁻¹
	ΣC	✓	24,2 kg.h ⁻¹
A Coating Line EI SENMANN, rinsing after dipping - vent V4	ΣC	✓	81,6 kg.h ⁻¹

Cokery

Measuring Point	Pollutant	Evaluation	Measured Amount
Rough Drading Plant LCB #3, Line A	S	✓	0,273 kg.h ⁻¹
Rough Drading Plant LCB #3, Line B	S	✓	0,478 kg.h ⁻¹
Rough Drading Plant LCB #3, Line S	S	✓	0,807 kg.h ⁻¹



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The results of valid pollutant`s measuring made by authorized measuring groups to detect an adherence of emission limit and amount of exhausted pollutants on DP:

Power Engineering

Measuring Point	Pollutant	Evaluation	Measured Amount
Waste Gas Boiler #2 on Pusher Furnace #2	Solid (S)	✓	0,00832 kg.t ⁻¹ of steam
	SO ₂	✓	0,51712 kg.t ⁻¹ of steam
	NO _x	✓	0,2720 kg.t ⁻¹ of steam
	CO	N/A	3,16608 kg.t ⁻¹ of steam
	ΣC	N/A	0,03232 kg.t ⁻¹ of steam
	1 st group, 1 st sub-group Cd	✓	1 st Fee Class (Cd) 0,0 g.t ⁻¹ of steam
	1 st group, 2 nd sub-group As, Cr ⁶⁺	✓	2 nd Fee Class (As, Cr ³⁺ , Cr ⁶⁺) 0,0110 g.t ⁻¹ of steam
	Metals 2 nd group, 3 rd sub-group Cr ³⁺	✓	
Waste Gas Boiler #4 on Pusher Furnace #4	SO ₂	✓	0,4372 kg.t ⁻¹ of steam
	NO _x	✓	0,1399 kg.t ⁻¹ of steam
	CO	N/A	0,0778 kg.t ⁻¹ of steam
	ΣC	N/A	0,0059 kg.t ⁻¹ of steam
Gas Boiler #6, right branch	SO ₂	✓	0,6049 kg.t of steam ⁻¹ .S ⁻¹
Gas Boiler #6, left branch	SO ₂	✓	