

Summary information on the status of the environment in 2003
In the U. S. Steel Košice, s.r.o. surrounding
*(According to the act no. 17/1992 Coll. on environment
in the later version)*

MEASURED POLLUTION IN U. S. STEEL KOŠICE, s.r.o. SURROUNDING

MEASUREMENT PLACE	HARMFUL SUBSTANCES (average annual concentration)				
	CO ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	ozone ($\mu\text{g}/\text{m}^3$)	dust ($\mu\text{g}/\text{m}^3$)
HANISKA	0,90	15	22	71	33
KOMÁROVCE	0,90	10	18	66	42
POĽOV	0,85	13	20	111	45
SOKOL'ANY-ČOV	0,92	12	21	60	35
SOKOL'ANY-village	1,04	8	23	58	28
ŠACA	0,95	11	19	65	31
VEĽKÁ IDA-GOMBOŠ	0,86	10	18	59	33

- ❖ Annual limit of pollution only for NO₂ (54 $\mu\text{g}/\text{m}^3$) is determined in the Notice of MŽP SR No. 705/2002 Coll. from Nov 29, 2002.

WASTE WATER POLLUTION INDICATORS

RECIPIENT: Sokol'any river

INDICATOR	UNIT	AVERAGE		MAX. VALUE 1.- 12./03	
		LIMIT	ACTUAL	MAX. LIMIT	ACTUAL
pH	-	6-9	7,9	9	8,8
Cyanide	mg.l ⁻¹	0,1	0,007	0,2	0,175
Phenols	mg.l ⁻¹	0,05	0,0001	0,1	0,004
NEL	mg.l ⁻¹	1,5	0,02	1,5	0,09
Total iron	mg.l ⁻¹	2,0	1,19	3,0	2,5

- ❖ The pollution limit is set by the Resolution of the Regional Office in Košice, No. 2003/02118 from April 25, 2003.

	ACTUAL	LIMIT
<i>Total quantity of treated waste water released to the Sokol'any river</i>	28 347 025 m ³ /year	32 000 000 m ³ /year
<i>Total quantity of treated waste water returned to U.S. Steel Košice, s.r.o.</i>	4 476 178 m ³ /year	-

- ❖ *The quantity of treated waste water returned into U. S. Steel Košice, s.r.o. is 14 % of the total treated waste water from ČOV Sokol'any.*

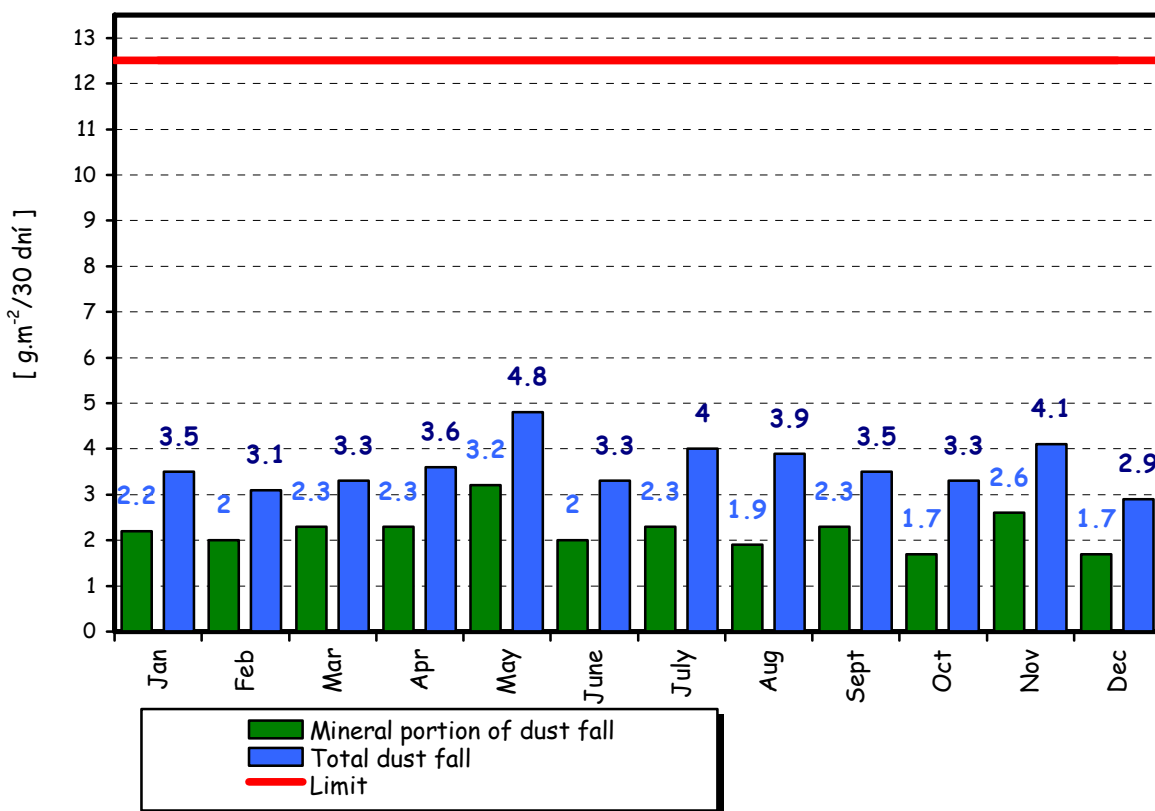
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DUST FALL in U. S. Steel Košice, s.r.o. SURROUNDING

Dust fall	LIMIT (g.m ⁻² / 30 day)	Average monthly concentration											
		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Total	12,5	3,5	3,1	3,3	3,6	4,8	3,3	4,0	3,9	3,5	3,3	4,1	2,9
Mineral	-	2,2	2,0	2,3	2,3	3,2	2,0	2,3	1,9	2,3	1,7	2,6	1,7

❖ The limit of the pollution is set according to the "Mandatory provisions of the Ministry of healthcare of SSR, art. 5 - 8 from 1981.

DUST FALL GRAPH
LIMIT 12,5 g.m⁻²/30 days



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The results of authorized measurements of pollution agents (PA) that were performed by authorized measuring teams for the purpose of finding out the observance of emission limits (EL) and finding out the quantity of released pollution agents at:

DP Power Engineering

Measurement place	PA	EL	Measured quantity
Combustion boiler no. 2 behind Reheat furnace no.2	TZL	Satisfies	0,434 kg.h ⁻¹
	CO	-	164,9 kg.h ⁻¹
	NO _x	Satisfies	6,66 kg.h ⁻¹
	SO ₂	Satisfies	12,34 kg.h ⁻¹
Combustion boiler no. 4 behind Reheat furnace no. 4	4.sk., 3.podsk.	Satisfies	0,236 kg.h ⁻¹
	CO	-	69,8 kg.h ⁻¹
	NO _x	Satisfies	7,33 kg.h ⁻¹
	SO ₂	Satisfies	10,12 kg.h ⁻¹
4.sk., 3.podsk.	Satisfies	0,122 kg.h ⁻¹	

DP Mechanics

Measurement place	PA	EL	Measured quantity
Cleaning chamber CK3	TZL	Satisfies	0,972 kg.h ⁻¹

DP Metallurgy secondary

Measurement place	PA	EL	Measured quantity
Paint line, EISENMANN, big drying furnace, výdych V1	TOC	Satisfies	0,056 kg.h ⁻¹
Paint line EISENMANN, big drying furnace, výdych V2	TOC	* Does not satisfy	0,095 kg.h ⁻¹
Additions sorter	TZL	Satisfies	0,037 kg.h ⁻¹
Welding line SCHLATTER no. 2, V1	TZL	Satisfies	0,020 kg.h ⁻¹
Welding line SCHLATTER no.2, V2	TZL	Satisfies	0,022 kg.h ⁻¹
Welding line SCHLATTER no.3, V1	TZL	Satisfies	0,017 kg.h ⁻¹
Welding line SCHLATTER no.3, V2	TZL	Satisfies	0,016 kg.h ⁻¹

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DP Coke plant

Measurement place	PA	EL	Measured quantity
VKB1, Heating – mix gas	CO	-	9,3452 kg.t _{CKS} ⁻¹
	NO _x	Satisfy	0,2999 kg.t _{CKS} ⁻¹
	SO ₂	Satisfy	0,0183 kg.t _{CKS} ⁻¹
VKB3, - Block AB, heating – mix gas	CO	-	5,887 kg.t _{CKS} ⁻¹
	NO _x	Satisfy	0,220 kg.t _{CKS} ⁻¹
	SO ₂	Satisfy	0,007 kg.t _{CKS} ⁻¹
	4.sk., 3.podsk.	Satisfy	0,010 kg.t _{CKS} ⁻¹
VKB3, - block C, heating – mix gas	CO	-	*
	NO _x	Satisfy	*
	SO ₂	Satisfy	*
	4.sk., 3.podsk.	Satisfy	*
VKB1, Stack 1, heating MG	Smoke darkness	Satisfy	-
VKB3, Stack 3, heating MG	Smoke darkness	Satisfy	-
VKB3, Stack 4, heating MG	Smoke darkness	Satisfy	-

* - Measured quantity for VKB3 related to blocks A, B and C together

DP Tin plate

Measurement place	PA	EL	Measured quantity
Conti annealing	TZL	Satisfy	0,004 kg.h ⁻¹
	NO _x	Satisfy	0,89 kg.h ⁻¹
	CO	-	0,44 kg.h ⁻¹
	SO ₂	-	0,00 kg.h ⁻¹
	TOC	Satisfy	0,21 kg.h ⁻¹
Chroming rolls	1.sk, 2.podsk. (Cr ⁶⁺)	Satisfy	1,5 g.h ⁻¹
Foundry of anodes for EC2 line	TZL	Satisfy	0,001 kg.h ⁻¹
	CO	-	0,01 kg.h ⁻¹
	NO _x	Satisfy	0,0 kg.h ⁻¹
	SO ₂	Satisfy	0,0 kg.h ⁻¹
	2.sk., 3.podsk.	Satisfy	0,0 g.h ⁻¹
	TOC (Phenol)	Satisfy	0,01 kg.h ⁻¹

DP Special maintenance

Measurement place	ZL	EL	Measured quantity
Cleaning chamber CK4	TZL	Satisfy	0,086 kg.h ⁻¹

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DP Steel shop

Measurement place	PA	EL	Measured quantity
Slotted container	TZL	satisfies	0,039 kg.vagón ⁻¹
	1.sk., 2.podsk.	satisfies	0,0016 kg.vagón ⁻¹
	2.sk., 3.podsk.	satisfies	5,4923 g.h ⁻¹
Slotted container - belt conveying	TZL	satisfies	0,7238 kg.t ₁ prepr.mater. ⁻¹
	1.sk., 2.podsk.	satisfies	0,0181 kg.t ₁ prepr.mater. ⁻¹
	2.sk., 3.podsk.	satisfies	1,3351 g.h ⁻¹
Vacuuming steel	TZL	satisfies	20,50 g.heat ⁻¹
	1.sk., 2.podsk.	satisfies	0,000 g.heat ⁻¹
	2.sk., 3.podsk.	satisfies	0,09 g.heat ⁻¹
Combustion boiler no.2, OC1	NO _x	satisfies	0,525 kg.heat ⁻¹
	SO ₂	satisfies	0,0 kg.heat ⁻¹
	CO	satisfies	0,054 kg.heat ⁻¹
Combustion boiler no.3, OC1	NO _x	satisfies	0,936 kg.heat ⁻¹
	SO ₂	satisfies	0,0 kg.heat ⁻¹
	CO	satisfies	0,318 kg.heat ⁻¹
Oxygen convertor OC1 - regime 2EO	TZL	* fails	0,525 kg.heat ⁻¹
	1.sk., 1.podsk.	satisfies	0,158 g.heat ⁻¹
	1.sk., 2.podsk.	satisfies	225,3 g.heat ⁻¹
	2.sk., 3.podsk.	satisfies	727,7 g.h ⁻¹

Measurement place	PA	EL	Measured quantity
Oxygen convertor KK2 OC1 - regime 3EO	TZL	satisfies	2,605 kg.heat ⁻¹
	CO	satisfies	0,965 kg.heat ⁻¹
	NO _x	satisfies	3,880 kg.heat ⁻¹
	SO ₂	satisfies	0,0 kg.heat ⁻¹
	1.sk., 1.podsk.	satisfies	0,0 g.heat ⁻¹
	1.sk., 2.podsk.	satisfies	76,0 g.heat ⁻¹
Oxygen convertor KK3 OC1 - regime 3EO	2.sk., 3.podsk.	satisfies	223,2 g.h ⁻¹
	TZL	satisfies	1,333 kg.heat ⁻¹
	CO	satisfies	3,426 kg.heat ⁻¹
	NO _x	satisfies	5,603 kg.heat ⁻¹
	SO ₂	satisfies	0,0 kg.heat ⁻¹
	1.sk., 1.podsk.	satisfies	0,0 g.heat ⁻¹
Oxygen convertor KK3 OC1 - regime 2EO	1.sk., 2.podsk.	satisfies	130,4 g.heat ⁻¹
	2.sk., 3.podsk.	satisfies	101,5 g.h ⁻¹
	TZL	* fails	25,24 kg.heat ⁻¹
	1.sk., 1.podsk.	Satisfies	0,0 g.heat ⁻¹
Oxygen convertor KK3 OC1 - regime 2EO	1.sk., 2.podsk.	* fails	2087,7 g.heat ⁻¹
	2.sk., 3.podsk.	* fails	6340,9 g.h ⁻¹

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DZ Oceliareň

Measuring place	PA	EL	Measured quantity
Burning machine ZPO2, OC1	TZL	satisfies	0,169 kg.1 kt slabs ⁻¹
	CO	satisfies	0,0 kg.1 kt slabs ⁻¹
	NO _x	satisfies	0,764 kg.1 kt slabs ⁻¹
	SO ₂	satisfies	0,0 kg.1 kt slabs ⁻¹
	1.sk., 1.podsk.	satisfies	0,0 kg.1 kt slabs ⁻¹
	1.sk., 2.podsk.	satisfies	5,402 kg.1 kt slabs ⁻¹
	2.sk., 3.podsk.	satisfies	0,12 g.h ⁻¹
MPO I, OC2	TZL	satisfies	1,333 g.heat ⁻¹
	1.sk., 1.podsk.	satisfies	0,0 g.heat ⁻¹
	1.sk., 2.podsk.	satisfies	0,816 g.heat ⁻¹
	2.sk., 3.podsk.	satisfies	0,4975 g.h ⁻¹
Reheat boiler no. 1	CO	satisfies	0,110 kg.h ⁻¹
	SO ₂	satisfies	0,0 kg.h ⁻¹
	NO _x	satisfies	1,208 kg.h ⁻¹
Reheat boiler no. 2	CO	satisfies	0,0 kg.h ⁻¹
	SO ₂	satisfies	0,0 kg.h ⁻¹
	NO _x	satisfies	0,153 kg.h ⁻¹
Pig iron desulphurization OC I	TZL	satisfies	0,063 kg.heat ⁻¹
	CO	-	1,972 kg.heat ⁻¹
	NO _x	satisfies	0,0 kg.heat ⁻¹
	SO ₂	satisfies	1,633 kg.heat ⁻¹
	1.sk., 1.podsk.	satisfies	0,0 g.heat ⁻¹

Measuring place	PA	EL	Measured quantity
	1.sk., 2.podsk.	satisfies	1,461 g.heat ⁻¹
	2.sk., 3.podsk.	satisfies	4,677 g.h ⁻¹
Pig iron desulphurization OC II	TZL	satisfies	0,0205 kg.heat ⁻¹
	CO	-	1,4948 kg.heat ⁻¹
	SO ₂	satisfies	1,2035 kg.heat ⁻¹
	1.sk., 1.podsk.	satisfies	0,114 g.heat ⁻¹
	1.sk., 2.podsk.	satisfies	2,302 g.heat ⁻¹
	2.sk., 3.podsk.	satisfies	

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DZ Studená valcovňa

Measurement place	PA	EL	Measured quantity
Galvanizing 1, Oxidation furnace	CO	satisfies	0,034 kg.h ⁻¹
	NO _x	satisfies	0,204 kg.h ⁻¹
Galvanizing 1, Reduction furnace no.1	CO	-	0,986 kg.h ⁻¹
	NO _x	satisfies	0,109 kg.h ⁻¹
Galvanizing 1, Reduction furnace no. 2	CO	-	1,631 kg.h ⁻¹
	NO _x	satisfies	0,133 kg.h ⁻¹
Galvanizing 1, Reduction furnace no. 3	CO	-	0,594 kg.h ⁻¹
	NO _x	satisfies	0,218 kg.h ⁻¹
Galvanizing 1, Reduction furnace no. 4	CO	-	1,309 kg.h ⁻¹
	NO _x	satisfies	0,298 kg.h ⁻¹
Galvanizing 1, Reduction furnace no. 5	CO	-	2,071 kg.h ⁻¹
	NO _x	satisfies	0,054 kg.h ⁻¹
Galvanizing 1, Reduction furnace no. 6	CO	-	2,022 kg.h ⁻¹
	NO _x	satisfies	0,149 kg.h ⁻¹
Galvanizing 1, Reduction furnace no. 7	CO	-	0,577 kg.h ⁻¹
	NO _x	satisfies	0,193 kg.h ⁻¹
Galvanizing line 1, Passivation machine 1	1.sk., 2.podsk. (Cr ⁶⁺)	satisfies	0,0 g.h ⁻¹
Galvanizing line 2, Non-oxidation furnace	CO	satisfies	0,127 kg.h ⁻¹
	NO _x	satisfies	1,193 kg.h ⁻¹

Measurement place	PA	EL	Measured quantity
Galvanizing ..	CO	-	2,826 kg.h ⁻¹
	NO _x	satisfies	0,120 kg.h ⁻¹
Galvanizing line 2, Reduction furnace no. 2	CO	-	0,721 kg.h ⁻¹
	NO _x	satisfies	0,039 kg.h ⁻¹
Galvanizing line 2, Reduction furnace no. 3	CO	-	0,653 kg.h ⁻¹
	NO _x	satisfies	0,047 kg.h ⁻¹
Galvanizing line 2, Reduction furnace no. 4	CO	-	0,911 kg.h ⁻¹
	NO _x	satisfies	0,049 kg.h ⁻¹
Galvanizing line 2, Reduction furnace no. 5	CO	-	1,073 kg.h ⁻¹
	NO _x	satisfies	0,051 kg.h ⁻¹
Galvanizing line 2, Reduction furnace no. 6	CO	-	1,121 kg.h ⁻¹
	NO _x	satisfies	0,066 kg.h ⁻¹
Galvanizing line 2, Reduction furnace no. 7	CO	-	1,845 kg.h ⁻¹
	NO _x	spĺňa	0,080 kg.h ⁻¹
Galvanizing line 2, Passivation machine 2	1.sk., 2.podsk. (Cr ⁶⁺)	spĺňa	0,0 g.h ⁻¹

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DP Cold rolling mill

Measurement place	PA	EL	Measured quantity
Regeneration station HCl, Roaster furnace no.3	TZL	satisfies	1,612 kg.h ⁻¹
	HCl	satisfies	0,238 kg.h ⁻¹
Blast cleaning chamber of rolls	TZL	satisfies	0,0017 kg.h ⁻¹
Dynamo no.1, Oxidation furnace	CO	satisfies	0,141 kg.h ⁻¹
	NO _x	satisfies	0,054 kg.h ⁻¹
Dynamo no.1, Coating machine	TZL	satisfies	0,001 kg.h ⁻¹
	TOC	-	0,012 kg.h ⁻¹
Dynamo no.1, Drying furnace	TZL	satisfies	0,0002 kg.h ⁻¹
	TOC	satisfies	0,079 kg.h ⁻¹
Dynamo no.2, Oxidation furnace	CO	satisfies	0,059 kg.h ⁻¹
	NO _x	satisfies	0,059 kg.h ⁻¹
Dynamo no.2, Coating machine	TZL	satisfies	0,01 kg.h ⁻¹
	TOC	satisfies	0,026 kg.h ⁻¹
Dynamo no.2, Drying furnace c-exhaust 1	TZL	* fails	0,113 kg.h ⁻¹
	TOC	satisfies	0,046 kg.h ⁻¹
Dynamo no.2, Dryer furnace – exhaust 2	TZL	* fails	0,144 kg.h ⁻¹
	TOC	* fails	0,563 kg.h ⁻¹

DP Cold rolling mill

Measurement place	PA	EL	Measured quantity
• Following measuring with more representative place of sample taking has confirmed the observation of emission limits			
Dynamo line no.	TZL	satisfies	0,003 kg.h ⁻¹
	TOC	satisfies	0,112 kg.h ⁻¹
Dynamo line no.	TZL	satisfies	0,004 kg.h ⁻¹
	TOC	satisfies	0,147 kg.h ⁻¹

DP Hot rolling mill

Measurement place	PA	EL	Measured quantity
Rough cutting line	TZL	satisfies	0,013 kg.h ⁻¹
Blast cleaning line	TZL	satisfies	1,056 kg.h ⁻¹

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DP Blust furnaces

Measuring place	PA	EL	Measured quantity
Sintering strip no.2	TZL	satisfies	0,1791 kg.t ⁻¹ _{aglomerát}
	1.sk., 1.podsk.	satisfies	0,128 g.t ⁻¹ _{aglomerát}
	2.sk., 1.podsk.	satisfies	
	1.sk., 2.podsk.	satisfies	7,524 g.t ⁻¹ _{aglomerát}
	2.sk., 2.podsk.	satisfies	
	2.sk., 3.podsk.	satisfies	
	Hg	satisfies	0,102 g.t ⁻¹ _{aglomerát}
	VOC	satisfies	71,079 g.t ⁻¹ _{aglomerát}
Sintering strip no. 3	1.sk., 1.podsk.	satisfies	0,0308774 g.t ⁻¹ _{aglomerát}
	1.sk., 2.podsk.	satisfies	0,0742075 g.t ⁻¹ _{aglomerát}
Foundry VP2, EO no. 25	TZL	satisfies	0,0345 kg.t ⁻¹ _{Fe}
	CO	-	0,2759 kg.t ⁻¹ _{Fe}
	NO _x	satisfies	0,0260 kg.t ⁻¹ _{Fe}
	SO ₂	satisfies	0,1143 kg.t ⁻¹ _{Fe}
	1.sk., 2.podsk.	satisfies	0,44 g.t ⁻¹ _{Fe}
	2.sk., 3.podsk.	satisfies	
Foundry	TZL	satisfies	0,0791 kg.t ⁻¹ _{Fe}

Measuring place	PA	EL	Measured quantity
	CO	-	0,0689 kg.t ⁻¹ _{Fe}
	NO _x	satisfies	0,0176 kg.t ⁻¹ _{Fe}
	SO ₂	satisfies	0,0785 kg.t ⁻¹ _{Fe}
	1.sk., 2.podsk.	satisfies	0,46 g.t ⁻¹ _{Fe}
	2.sk., 3.podsk.	satisfies	
Coke tower, EO24	TZL	satisfies	0,202 kg.h ⁻¹
Sorting ore and coke, EO85	TZL	* fails	22,64 kg.h ⁻¹
	1.sk., 2.podsk.	satisfies	1,63 g.h ⁻¹
	2.sk., 3.podsk.	satisfies	35,19 g.h ⁻¹
Coke grinding	CO	-	641,6 kg.h ⁻¹
	SO ₂	satisfies	13,78 kg.h ⁻¹
	TOC	-	18,66 kg.h ⁻¹

Pollution agents that don't meet emission limit are based on the Resolution of Local Office Košice II. integrated in class B, in which they don't need it to meet emission limits until 31 Dec, 2006. The synchronization of the listed pollution agents with emission limits is included in the environmental projects plan.

❖ *Emission limit is specified in the Regulation of MŽP SR no. 706/2002 Coll. from 29 Dec, 2002 in the later version.*

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Annual protocol from AMS:

DP Energetika, Boiler K1:

Pollution agent	Emission limit	No. of exceeded PA		Measured PA quantity	
		SPH	PDH	when PA observed	when PA exceeded
CO	100	2	0	8 350 kg	30 kg
NO _x	200	1	1	163 224 kg	546 kg
SO ₂	800	0	0	338 756 kg	0 kg

DP Energetika, Boiler K4:

Pollution agent	Emission limit	No. of exceeded PA		Measured PA quantity	
		SPH	PDH	when PA observed	when PA exceeded
CO	250	0	0	70 487 kg	0 kg
NO _x	1 300	0	0	1 421 708 kg	0 kg
SO ₂	1 700	0	0	819 304 kg	0 kg
TZL	100	0	0	38 820 kg	0 kg

DP Energetika, Boiler K5:

Pollution agent	Emission limit	No. of exceeded PA		Measured PA quantity	
		SPH	PDH	when PA observed	when PA exceeded
CO	250	1	0	47 040 kg	55 kg
NO _x	1 300	0	0	1 034 835 kg	0 kg
SO ₂	1 700	0	0	718 802 kg	0 kg
TZL	100	0	0	56 665 kg	0 kg

DP Energetika, Boiler K6:

Pollution agent	Emission limit	No. of exceeded PA		Measured PA quantity	
		SPH	PDH	when PA observed	when PA exceeded
CO	250	16	0	48 614 kg	575 kg
NO _x	1 300	0	0	808 205 kg	0 kg
SO ₂	1 700	0	0	720 543 kg	0 kg
TZL	100	30	3	166 290 kg	11 137 kg

❖ Emission limit of pollution is specified in Regulation of MŽP SR no. 706/2002 Coll. from 29 Dec, 2002 in the later version.

Explanation:

- emission limit is specified in mg/m³
- PA - pollution agent
- EL - emission limit
- SPH - middle half-hour value
- PDH - average daily value