



označenie:
MS/GME/12/2023

Číslo výtlačku:

MESAČNÁ SPRÁVA O KVALITE ŽIVOTNÉHO PROSTREDIA
v U. S. Steel Košice, s.r.o.
december 2023

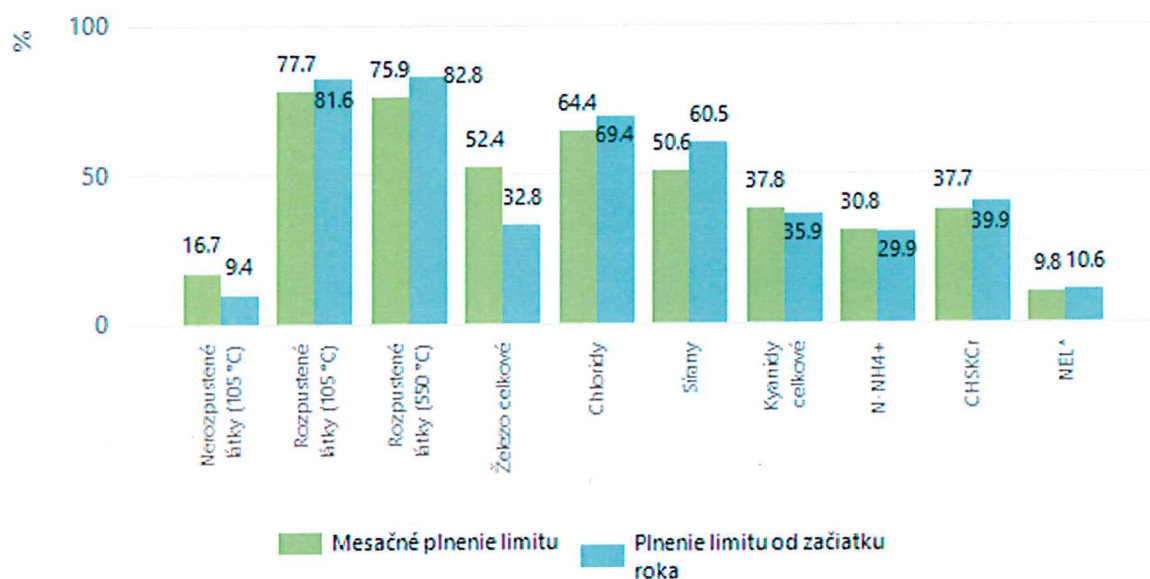
| | | | |
|--|--|---|---------------|
| Gestor <i>Ing. Jana Protivňáková</i> Špecialista pre environmentálny rozvoj | Posudzovateľ <i>Ing. Agáta Mihalková</i> Ved. oddelenia ochrana vôd a EMS | Schvaľovateľ <i>Ing. Miloš Fodor</i> GM pre environment | Vydanie č. |
| Dátum: 8.1. 2024 | Dátum: 8.1. 2024 | Dátum: 8.1. 2024 | Dátum vydania |
| Podpis: <i>[Signature]</i> | Podpis: <i>[Signature]</i> | Podpis: <i>[Signature]</i> | |

F-PP/AH/0011-11/18-02-5

UKAZOVATELE ZNEČISTENIA ODPADOVÝCH VÔD

Sokoliansky potok: denné 24-hod. zlievané vzorky

Plnenie limitov OV na výstupe z ČOV Sokol'any



| UKAZOVATEL | JEDNOTKA | LIMIT | MESAČNÝ PRIEMER |
|--------------------------------|----------|-------|-----------------|
| | | | december |
| pH | - | 6 - 9 | 8,1 |
| Nerozpustené látky (105 °C) | mg/l | 40 | 6,7 |
| Rozpustené látky (105 °C) | mg/l | 900 | 699 |
| Rozpustené látky (550 °C) | mg/l | 740 | 562 |
| Železo celkové | mg/l | 2 | 1,0 |
| Chloridy | mg/l | 250 | 161 |
| Sířany | mg/l | 250 | 127 |
| Kyanidy celkové | mg/l | 0,1 | 0,04 |
| N-NH ₄ ⁺ | mg/l | 1 | 0,3 |
| CHSK _{Cr} | mg/l | 35 | 13 |
| NEL* | mg/l | 1,5 | 0,15 |

* - bodová vzorka

- Uvedené výsledky sú denne stanovované z 24-hodinových zlievaných vzoriek, odoberaných na odtoku z ČOV Sokolany do recipientu Sokoliansky potok, analyzovaných akreditovaným laboratóriom útvaru GM pre environment.
- Rozsah stanovení a limity znečistenia sú určené rozhodnutím Slovenskej inšpekcie ŽP, Inšpektorát ŽP Košice č.6438/57/2021-43650/2022/570021406/Z61 v znení zmeny SIŽP ústredie Bratislava č. 5887/27/2023-25620/2023 v prevádzke ČOV Sokolany – DZ Energetika.

| | |
|---|--------------------------|
| Celkové množstvo vyčistenej odpadovej vody vypustenej do Sokolianskeho potoka v 12/2023 | 2 676 956 m ³ |
| Celkové množstvo vyčistenej odpadovej vody vrátenej do U. S. Steel Košice, s.r.o. v 12/2023 | 675 076 m ³ |
| Celkové množstvo vyčistenej odpadovej vody z U. S. Steel Košice, s.r.o. v 12/2023 | 3 352 032 m ³ |

Množstvo vyčistenej odpadovej vody



HLAVNÉ DRUHY TECHNOLOGICKÝCH REZÍDUÍ vznikajúcich na zariadeniach USSK v rámci výrobného cyklu

| DRUH | ZOSTATOK Z PREDCHÁDZ. OBDOBIA | VÝSKÝT | ZHODNOTENIE V USSK | PREDAJ | STABILIZÁCIA | UKLADANIE NA | | SKLADOVANIE | |
|------------------------------|-------------------------------------|----------------|-----------------------|---------------|---------------|--------------|---------------|--------------|----------------|
| | | | | | | SKLÁDKY | ODKALISKA | | |
| december 2023 | | | | | | | | | |
| Vysokopecná troska | [t] | 0 | 67 484 | 0 | 67 484 | 0 | 0 | 0 | 0 |
| Vysokopecný kal | [t] | 12 398 | 3 608 | 2 734 | 0 | 434 | 0 | 0 | 12 838 |
| Vysokopecný prach | [t] | 0 | 3 329 | 3 329 | 0 | 0 | 0 | 0 | 0 |
| Prach z odlučov. aglomerácie | [t] | 0 | 2 116 | 0 | 0 | 2 116 | 0 | 0 | 0 |
| Prach z mlynice uhlia | [t] | 0 | 50 | 50 | 0 | 0 | 0 | 0 | 0 |
| Konvertorová troska | [t] | 205 910 | 38 919 | 8 947 | 12 545 | 0 | 0 | 0 | 223 337 |
| Hutnícka suť | [t] | 16 759 | 22 194 | 0 | 0 | 0 | 22 194 | 0 | 16 759 |
| Oceliarský prach | [t] | 61 854 | 3 481 | 774 | 3 670 | 108 | 160 | 0 | 60 623 |
| Konvertorový kal jemný ** | [t] | 203 363 | 2 824 | 0 | 3 670 | 0 | 0 | 2 824 | 202 517 |
| Konvertorový kal hrubý | [t] | 0 | 717 | 717 | 0 | 0 | 0 | 0 | 0 |
| Okovinová zmes | [t] | 612 | 5 240 | 5 114 | 126 | 0 | 0 | 0 | 612 |
| Koksárenské rezíduá | [t] | 0 | 4 850 | 26 | 4 824 | 0 | 0 | 0 | 0 |
| Troskopopolčeková zmes | [t] | 4 002 | 0 | 0 | 0 | 0 | 0 | 0 | 4 002 |
| Popol + Škvára | [t] | 23 982 | 1 603 | 0 | 593 | 0 | 69 | 0 | 24 923 |
| Energosádrovec | [t] | 0 | 735 | 0 | 27 | 0 | 708 | 0 | 0 |
| SUMA | [t] | 528 880 | 157 150 | 21 691 | 92 939 | 2 658 | 23 131 | 2 824 | 545 611 |

** - koeficient prepočtu po sedimentácii je 1 302 kg/m³

V priebehu hodnoteného obdobia bolo zhodnotených v USSK a predaných 114 630 t technologických rezíduí.

VYSVETLENIE POJMOV

- Zostatok z predchádzajúceho obdobia: celkové množstvo rezíduí skladovaných na dočasných skladoch, resp. odkaliskách z predchádzajúceho obdobia.
- Výskyt: vzniknuté množstvo technologických rezíduí za uvedené časové obdobie.
- Zhodnotenie v USSK: reálne množstvo rezíduí, ktoré sa zhodnotilo v hutníckom cykle USSK za uvedené časové obdobie.
- Predaj: reálne množstvo rezíduí, ktoré sa za uvedené časové obdobie odpredalo externým odberateľom.
- Stabilizácia: množstvo odpadov zhodnotených/zneškodnených na stabilnej stabilizačnej linke
- Ukladanie na skládky: množstvo odpadov zneškodnených na skládkach USSK.
- Ukladanie na odkaliská: množstvo rezíduí uložených na odkaliskách konvertorových kalov a Mokra halda za uvedené časové obdobie. Vzhľadom k tomu, že uložené rezíduá sa po odsedimentovaní ťažia a následne zhodnocujú, odpredávajú resp. zneškodňujú na skládkach, je celé uložené množstvo rezíduá premietnuté aj do skladovania.
- Skladovanie: celkové množstvo rezíduí uložených na dočasné sklady zásob.

Popis špecifických rezíduí :

- Konvertorový kal jemný – skladované množstvo pozostáva z aktuálneho množstva uloženého rezíduá na odkaliskách konvertorových kalov č. 1 – č. 4 a z množstva, ktoré sa po odsedimentovaní vyťažilo a dočasne sa skladuje pri linke PRAKAL.
- Troskopopolčeková zmes - skladované množstvo pozostáva z aktuálneho množstva uloženého odpadu na odkalisku Mokrú haldu.

Výsledky oprávnených meraní emisií do ovzdušia

| MIESTO MERANIA | ZNEČIŠŤUJÚCA LÁTKA | EMISNÝ LIMIT | JEDNOTKA | NAMERANÁ HODNOTA | ZHODNOTENIE |
|---|--------------------|--------------|-------------------|------------------|-------------|
| DZ Studená valcovňa/ Valcovacie trate/ 5ST - odsávanie, komín č. 526 | TOC | 150 | mg/m ³ | 2,80 | súlad |
| | TZL | 20 | mg/m ³ | 4 | súlad |
| DZ Studená valcovňa/ Žíharne/ JINOVA, výmena vzduchu PŽ 4 - komín č. 529 | CO | 100 | mg/m ³ | 68 | súlad |
| | NO _x | 200 | mg/m ³ | 86 | súlad |
| DZ Energetika/ Kotel PK6/ Komín č. 5 | As | Neurčený | g/h | 0,0880 | súlad |
| | Cd | Neurčený | g/h | 0,0880 | súlad |
| | Co | Neurčený | g/h | 0,0880 | súlad |
| | Cr | Neurčený | g/h | 0,1180 | súlad |
| | Cu | Neurčený | g/h | 0,3450 | súlad |
| | Mn | Neurčený | g/h | 0,2640 | súlad |
| | Ni | Neurčený | g/h | 0,2050 | súlad |
| | Pb | Neurčený | g/h | 0,0880 | súlad |
| | SO ₃ | Neurčený | g/h | 2126 | súlad |
| | Sb | Neurčený | g/h | 0,1950 | súlad |
| | Se | Neurčený | g/h | 1,2810 | súlad |
| | Tl | Neurčený | g/h | 0,0587 | súlad |
| | V | Neurčený | g/h | 0,2930 | súlad |
| | Zn | Neurčený | g/h | 0,6410 | súlad |
| DZ Energetika/ Kotel PK6, bypass/ PK6, bypass Komín č. 4 | Hg | Neurčený | g/h | 0,2930 | súlad |
| | Hg | Neurčený | g/h | 0,6550 | súlad |
| DZ Studená valcovňa/ Moriace linky/ Pneudoprava RS3, komín č. 599 | TZL | 150 | mg/m ³ | 1 | súlad |

Výsledky oprávnenej inšpekcie zhody AMS

| OBJEKT INŠPEKCIE ZHODY | VÝSLEDOK INŠPEKCIE |
|----------------------------------|--------------------|
| DZ Koksovňa/ KO - VKB3 - komín 3 | zhoda |
| | nezhoda* |
| DZ Koksovňa/ KO - VKB3 - komín 4 | zhoda |

* TZL - bude vykonaná nová inšpekcia zhody AMS

**Zhodnotenie dodržiavania emisných limitov
 a množstvá vypustených emisií do ovzdušia zo zdrojov monitorovaných AMS**
DZ Oceliareň

| ZDROJ | ZL | EL* [mg/m ³] | POČET PREKROČENÍ EL | | NAMERANÉ MNOŽSTVO ZL [kg] | |
|-------------------------|-----|-----------------------------|------------------------|-----|---------------------------|--------------------------|
| | | | PPH | PDH | PRI DODRŽANOM EL | PRI PREKROČENOM EL |
| SEKUNDÁRNE ODPRÁŠ. OC 1 | TZL | 15 | 0 | 0 | 763,0 | 0,0 |
| SEKUNDÁRNE ODPRÁŠ. OC 2 | TZL | 15 | 0 | 0 | 241,2 | 0,0 |
| | | Suma | 0 | 0 | 1 004,2 | 0,0 |

* emisný limit podľa rozhodnutia Slovenskej inšpekcie ŽP, Inšpektorát ŽP Košice

Vysvetlivky:

- PPH - priemerná polhodinová hodnota
- PDH - priemerná denná hodnota
- ZL - znečisťujúca látka
- EL - emisný limit
- AMS - automatizovaný merací systém

DZ Koksovňa

| ZDROJ | ZL | EL* [mg/m ³] | POČET PREKROČENÍ EL | | NAMERANÉ MNOŽSTVO ZL [kg] | |
|----------------|-----|-----------------------------|------------------------|-----|---------------------------|--------------------------|
| | | | PPH | PDH | PRI DODRŽANOM EL | PRI PREKROČENOM EL |
| VKB3 – Komín 3 | TZL | 100 | 0 | 0 | 2 714,0 | 0,0 |
| VKB3 – Komín 4 | TZL | 100 | 0 | 0 | 1 959,1 | 0,0 |
| | | Suma | 0 | 0 | 4 673,1 | 0,0 |

* emisný limit podľa rozhodnutia Slovenskej inšpekcie ŽP, Inšpektorát ŽP Košice

DZ Vysoké pece – Spekacie pásy

| ZDROJ | ZL | EL* [mg/m ³] | POČET PREKROČENÍ EL | | NAMERANÉ MNOŽSTVO ZL [kg] | |
|-----------------|-----------------|-----------------------------|------------------------|-----|---------------------------|--------------------------|
| | | | PPH | PDH | PRI DODRŽANOM EL | PRI PREKROČENOM EL |
| SPEKACÍ PÁS SP1 | CO | 6 000 | 0 | 0 | 817 420,0 | 0,0 |
| | NO _x | 400 | 0 | 0 | 26 380,0 | 0,0 |
| | SO ₂ | 495 | 0 | 0 | 21 651,4 | 0,0 |
| | TZL | 15 | 0 | 0 | 34,8 | 0,0 |
| SPEKACÍ PÁS SP2 | CO | 6 000 | 0 | 0 | 643 803,4 | 0,0 |
| | NO _x | 400 | 0 | 0 | 22 021,4 | 0,0 |
| | SO ₂ | 495 | 0 | 0 | 8 407,0 | 0,0 |
| | TZL | 15 | 0 | 0 | 630,7 | 0,0 |
| SPEKACÍ PÁS SP3 | CO | 6 000 | 0 | 0 | 531 836,8 | 0,0 |
| | NO _x | 400 | 0 | 0 | 18 366,3 | 0,0 |
| | SO ₂ | 495 | 0 | 0 | 14 726,9 | 0,0 |
| | TZL | 15 | 0 | 0 | 146,7 | 0,0 |
| SPEKACÍ PÁS SP4 | CO | 6 000 | 0 | 0 | 1 191 487,6 | 0,0 |
| | NO _x | 400 | 0 | 0 | 40 897,8 | 0,0 |
| | SO ₂ | 495 | 0 | 0 | 28 661,6 | 0,0 |
| | TZL | 15 | 0 | 0 | 66,6 | 0,0 |
| Spolu SP | CO | 6 000 | 0 | 0 | 3 184 547,8 | 0,0 |
| | NO _x | 400 | 0 | 0 | 107 665,5 | 0,0 |
| | SO ₂ | 495 | 0 | 0 | 73 446,9 | 0,0 |
| | TZL | 15 | 0 | 0 | 878,8 | 0,0 |

* emisný limit podľa rozhodnutia Slovenskej inšpekcie ŽP, Inšpektorát ŽP Košice

DZ Vysoké pece – odlievarne vysokých pecí

| ZDROJ | ZL | EL* [mg/m ³] | POČET PREKROČENÍ EL | | NAMERANÉ MNOŽSTVO ZL [kg] | |
|----------------|-----|-----------------------------|------------------------|-----|---------------------------|--------------------------|
| | | | PPH | PDH | PRI DODRŽANOM EL | PRI PREKROČENOM EL |
| Odlievareň VP1 | TZL | 15 | 0 | 0 | 492,6 | 0,0 |
| Odlievareň VP2 | TZL | 15 | 0 | 0 | 82,4 | 0,0 |
| Odlievareň VP3 | TZL | 15 | 0 | 0 | 139,3 | 0,0 |
| | | Suma | 0 | 0 | 714,3 | 0,0 |

* emisný limit podľa rozhodnutia Slovenskej inšpekcie ŽP, Inšpektorát ŽP Košice



DZ Energetika

| ZDROJ | ZL | EL* [mg/m ³] | POČET PREKROČENÍ EL | | NAMERANÉ MNOŽSTVO ZL [kg] | |
|-----------------------------|-----------------|-----------------------------|------------------------|-----|---------------------------|--------------------------|
| | | | PHH | PDH | PRI DODRŽANOM EL | PRI PREKROČENOM EL |
| Kotly K1 - K3/ KOMÍN č. 1 | CO | 99,4 | 1 | 0 | 7 349,8 | 0,0 |
| | NO _x | 142,1 | 0 | 0 | 32 183,4 | 0,0 |
| | SO ₂ | 170,6 | 0 | 0 | 32 742,7 | 0,0 |
| | TZL | 8,7 | 0 | 0 | 1 558,9 | 0,0 |
| Kotel K6/ KOMÍN č. 5 | CO | 201,6 | 0 | 0 | 1 350,7 | 0,0 |
| | NO _x | 188,4 | 0 | 0 | 16 315,5 | 0,0 |
| | SO ₂ | 190,0 | 0 | 0 | 9 267,8 | 0,0 |
| | TZL | 13,9 | 0 | 0 | 41,7 | 0,0 |
| Kotel K7/ KOMÍN č. 3 | CO | 200,2 | 0 | 0 | 1 435,7 | 0,0 |
| | NO _x | 187,3 | 0 | 0 | 22 533,1 | 0,0 |
| | SO ₂ | 188,4 | 0 | 0 | 4 567,6 | 0,0 |
| | TZL | 13,8 | 0 | 0 | 32,2 | 0,0 |
| Kotel K6 Bypass/ KOMÍN č. 4 | CO | - | 0 | 0 | 0,0 | 0,0 |
| | NO _x | - | 0 | 0 | 0,0 | 0,0 |
| | SO ₂ | - | 0 | 0 | 0,0 | 0,0 |
| | TZL | - | 1 | 0 | 0,0 | 0,0 |
| Kotel K7 Bypass/ KOMÍN č. 4 | CO | - | 0 | 0 | 13,6 | 0,0 |
| | NO _x | - | 0 | 0 | 178,4 | 0,0 |
| | SO ₂ | - | 0 | 0 | 2 098,8 | 0,0 |
| | TZL | - | 0 | 0 | 79,6 | 0,0 |
| KOMÍNY Spolu | CO | - | 1 | 0 | 10 149,8 | 0,0 |
| | NO _x | - | 0 | 0 | 71 210,4 | 0,0 |
| | SO ₂ | - | 0 | 0 | 48 676,9 | 0,0 |
| | TZL | - | 1 | 0 | 1 712,4 | 0,0 |

* emisný limit podľa rozhodnutia Slovenskej inšpekcie ŽP, Inšpektorát ŽP Košice

INÉ INFORMÁCIE:

V priebehu hodnoteného mesiaca nedošlo k žiadnej ekologickej havárii a nebola štátnou správou udelená pokuta za porušenie legislatívy v oblasti životného prostredia.



PRÍLOHY

Príloha č. 1 (mesačné protokoly emisných hodnôt AMS z odprášenja OC1 a OC2, spekacích pásov, odlievární VP, koksárenskej batérie VKB3 a kotlov teplárne)

Mesačný protokol emisného monitorovania pre Komín K1 za: 12.2023

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: Komín K1 (PK1-PK3)

| Palivo | PHH - 60min. | KoP, KP, VPP, ZP | | | |
|---|------------------------------------|------------------|-----------------|-----------------|-----------|
| | | CO | NO _x | SO ₂ | TZL |
| PMH EL - Priemerná mesačná hodnota EL | [mg/m ³ _{nr}] | 99,3 | 142,1 | 170,6 | 8,7 |
| l - interval spoľahlivosti | [%EL] | 10 | 20 | 20 | 30 |
| PMH - Priemerná mesačná hodnota ZL | [mg/m ³ _{nr}] | 17,6 | 88,9 | 87,0 | 4,3 |
| N PHH ≤ 2.EL+ / N PHH > 2.EL+ | | 742 / 1 | 743 / 0 | 743 / 0 | 743 / 0 |
| N PHH Valid / N PHH N | | 743/1 | 743/1 | 743/1 | 743/1 |
| N PDH ≤ EL+ / N PDH > EL+ | | 31 / 0 | 31 / 0 | 31 / 0 | 31 / 0 |
| N PDH Valid / N PDH F / N PDH N | | 31/0/0 | 31/0/0 | 31/0/0 | 31/0/0 |
| c - priem. hm. koncent. ZL ≤ EL | [mg/m ³ _{ns}] | 16,4 | 71,6 | 72,9 | 3,5 |
| množstvo ZL ≤ EL | [kg] | 7 349,8 | 32 183,4 | 32 742,7 | 1 558,9 |
| Q Spalin ≤ EL | [tis. Nm ³] | 449 225,7 | 449 225,7 | 449 225,7 | 449 225,7 |
| c - priem. hm. koncent. ZL > EL | [mg/m ³ _{ns}] | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL > EL | [kg] | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin > EL | [tis. Nm ³] | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL (N PDH F > 10, nezist. údaje) | [kg] | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin (N PDH F > 10, nezist. údaje) | [tis. Nm ³] | 0,0 | 0,0 | 0,0 | 0,0 |

| Počet hodín za mesiac - ustálený chod: | | 517/485/740 | | | | PDH - priemerné denné hodnoty [mg/m ³ _{nr}] | | | |
|--|-------------|-------------|-------|--------|-------|--|-----------------|-----------------|---------------|
| Stav: | PK1/PK2/PK3 | | | | | KoP, KP, VPP, ZP | | | |
| | Bez | Ust | Náb | ZmQ | Odst | CO | NO _x | SO ₂ | TZL |
| Deň | - | " " | N | Q | Z | (PK1,PK2,PK3) | (PK1,PK2,PK3) | (PK1,PK2,PK3) | (PK1,PK2,PK3) |
| 1-12-23 | 0/0/0 | 24/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 10,4 | 85,8 | 83,4 | 4,1 |
| 2-12-23 | 0/0/0 | 24/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 10,2 | 65,6 | 67,0 | 4,1 |
| 3-12-23 | 0/0/0 | 24/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 10,2 | 72,1 | 63,1 | 4,0 |
| 4-12-23 | 0/0/0 | 24/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 16,0 | 95,4 | 93,0 | 4,1 |
| 5-12-23 | 0/0/0 | 24/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 2,8 | 62,3 | 61,2 | 4,3 |
| 6-12-23 | 0/0/0 | 24/24/20 | 0/0/2 | 0/0/1 | 0/0/1 | 5,3 | 73,7 | 69,3 | 4,1 |
| 7-12-23 | 0/0/0 | 24/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 11,5 | 83,4 | 98,1 | 4,1 |
| 8-12-23 | 0/0/0 | 24/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 12,8 | 79,6 | 87,8 | 4,0 |
| 9-12-23 | 0/0/0 | 24/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 8,3 | 69,0 | 63,4 | 4,3 |
| 10-12-23 | 0/0/0 | 24/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 3,7 | 62,3 | 76,8 | 4,3 |
| 11-12-23 | 0/0/0 | 22/24/24 | 0/0/0 | 2/0/0 | 0/0/0 | 32,0 | 137,1 | 120,6 | 4,1 |
| 12-12-23 | 20/0/0 | 1/24/24 | 0/0/0 | 2/0/0 | 1/0/0 | 48,9 | 102,9 | 74,1 | 4,2 |
| 13-12-23 | 24/0/0 | 0/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 33,5 | 91,3 | 22,6 | 4,6 |
| 14-12-23 | 24/0/0 | 0/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 28,1 | 74,9 | 26,5 | 4,6 |
| 15-12-23 | 24/0/0 | 0/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 27,8 | 61,4 | 39,6 | 4,2 |
| 16-12-23 | 24/0/0 | 0/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 52,0 | 60,7 | 63,7 | 4,1 |
| 17-12-23 | 24/0/0 | 0/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 21,5 | 77,7 | 75,0 | 4,1 |
| 18-12-23 | 24/0/0 | 0/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 1,5 | 73,1 | 90,0 | 4,0 |
| 19-12-23 | 24/0/0 | 0/24/24 | 0/0/0 | 0/0/0 | 0/0/0 | 11,9 | 68,8 | 58,1 | 4,0 |
| 20-12-23 | 10/7/0 | 6/16/24 | 4/0/0 | 4/0/0 | 0/1/0 | 13,8 | 100,2 | 88,8 | 4,1 |
| 21-12-23 | 0/24/0 | 24/0/24 | 0/0/0 | 0/0/0 | 0/0/0 | 17,0 | 101,7 | 124,0 | 4,3 |
| 22-12-23 | 0/24/0 | 24/0/24 | 0/0/0 | 0/0/0 | 0/0/0 | 11,7 | 90,0 | 97,7 | 4,7 |
| 23-12-23 | 0/24/0 | 24/0/24 | 0/0/0 | 0/0/0 | 0/0/0 | 14,2 | 104,0 | 106,6 | 4,6 |
| 24-12-23 | 0/24/0 | 24/0/24 | 0/0/0 | 0/0/0 | 0/0/0 | 21,5 | 107,4 | 129,2 | 4,6 |
| 25-12-23 | 0/24/0 | 24/0/24 | 0/0/0 | 0/0/0 | 0/0/0 | 18,5 | 105,1 | 141,3 | 4,6 |
| 26-12-23 | 0/24/0 | 20/0/24 | 0/0/0 | 4/0/0 | 0/0/0 | 10,1 | 108,7 | 97,3 | 4,8 |
| 27-12-23 | 0/24/0 | 22/0/24 | 0/0/0 | 2/0/0 | 0/0/0 | 11,2 | 100,1 | 96,1 | 4,3 |
| 28-12-23 | 0/24/0 | 24/0/24 | 0/0/0 | 0/0/0 | 0/0/0 | 22,1 | 141,4 | 131,0 | 4,2 |
| 29-12-23 | 0/24/0 | 19/0/24 | 0/0/0 | 5/0/0 | 0/0/0 | 19,5 | 96,7 | 112,5 | 4,5 |
| 30-12-23 | 0/24/0 | 23/0/24 | 0/0/0 | 1/0/0 | 0/0/0 | 23,7 | 104,8 | 130,2 | 4,6 |
| 31-12-23 | 0/5/0 | 20/13/24 | 0/4/0 | 4/1/0 | 0/1/0 | 15,5 | 98,6 | 110,5 | 4,4 |
| SUMA | 198/252/0 | 517/485/740 | 4/4/2 | 24/1/1 | | | | | |

| Označenie PDH / PMH | |
|---------------------|-----------------|
| F | neplatná |
| N | nevýhodnotená |
| žiadne | platná, (≤ EL+) |
| G | platná, (> EL+) |

| | PDH EL / PMH, PHH EL / PRH EL [mg/m ³ _{nr}] | | | |
|-----|--|-----------------|--------------------------------|------------|
| | CO | NO _x | SO ₂ | TZL |
| KoP | 110 / 100 / 100 | 160 / 145 / 100 | 200 / 180 / 150 | 10 / 9 / 7 |
| KP | 110 / 100 / 100 | 160 / 145 / 100 | 200 ₃₀₀ / 180 / 150 | 10 / 9 / 7 |
| VPP | 110 / 100 / 100 | 160 / 145 / 100 | 200 / 180 / 150 | 10 / 9 / 7 |
| ZP | 100 / 90 / 40 | 110 / 100 / 100 | 35 / 35 / 30 | 5 / 5 / 5 |

Mesačný protokol emisného monitorovania kotla PK7 za : 12.2023

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: Kotel PK7

| Palivo | | PU, ZP, KP | | | |
|---|------------------------------------|------------|-----------------|-----------------|-----------|
| ZL | PHH - 60min. | CO | NO _x | SO ₂ | TZL |
| PMH EL - Priemerná mesačná hodnota EL | [mg/m ³ _m] | 200,2 | 187,3 | 188,4 | 13,8 |
| I - interval spoľahlivosti | [%EL] | 10 | 20 | 20 | 30 |
| PMH - Priemerná mesačná hodnota ZL | [mg/m ³ _n] | 11,9 | 154,7 | 34,7 | 0,3 |
| N PHH ≤ 2.EL+I / N PHH > 2.EL+I | | 610 / 0 | 610 / 0 | 610 / 0 | 610 / 0 |
| N PHH Valid / N PHH F / N PHH E | | 610/1/7 | 610/1/7 | 610/1/7 | 610/1/7 |
| % PHH F z N _{stabil} | | 0,2 % | 0,2 % | 0,2 % | 0,2 % |
| N PDH ≤ EL+I / N PDH > EL+I | | 30 / 0 | 30 / 0 | 30 / 0 | 30 / 0 |
| N PDH Valid / N PDH F / N PDH N | | 30/0/1 | 30/0/1 | 30/0/1 | 30/0/1 |
| c - priem. hm. koncent. ZL ≤ EL | [mg/m ³ _{ns}] | 11,2 | 175,5 | 35,6 | 0,3 |
| množstvo ZL ≤ EL | [kg] | 1 435,7 | 22 533,1 | 4 567,6 | 32,2 |
| Q Spalin ≤ EL | [tis. Nm ³] | 128 428,6 | 128 428,6 | 128 428,6 | 128 428,6 |
| c - priem. hm. koncent. ZL > EL | [mg/m ³ _{ns}] | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL > EL | [kg] | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin > EL | [tis. Nm ³] | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL (N PDH F > 10, nezist. údaje) | [kg] | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin (N PDH F > 10, nezist. údaje) | [tis. Nm ³] | 0,0 | 0,0 | 0,0 | 0,0 |

| Počet hodín za mesiac - ustálený chod: 611 | | | | | | | PDH - priemerné denné hodnoty [mg/m ³ _n] | | | |
|--|-----|------|-----|------|------|------|---|-----------------|-----------------|-----|
| Stav: | Bez | Ust | Náb | ZmQ | Vyp. | Odst | PU, ZP, KP | | | |
| Deň | - | ''' | N | Q | V | Z | CO | NO _x | SO ₂ | TZL |
| 1-12-23 | 0, | 24, | 0, | 0, | 0, | 0, | 7,7 | 165,3 | 85,9 | 0,3 |
| 2-12-23 | 0, | 24, | 0, | 0, | 0, | 0, | 4,4 | 157,9 | 45,9 | 0,3 |
| 3-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 4,9 | 160,1 | 48,7 | 0,3 |
| 4-12-23 | 0, | 21, | 0, | 3, | 0, | 0, | 6,0 | 143,4 | 48,3 | 0,3 |
| 5-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 6,9 | 146,5 | 49,5 | 0,3 |
| 6-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 7,8 | 157,0 | 46,7 | 0,3 |
| 7-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 6,9 | 151,6 | 35,3 | 0,3 |
| 8-12-23 | 0, | 21, | 0, | 3, | 0, | 0, | 7,8 | 139,3 | 26,8 | 0,4 |
| 9-12-23 | 0, | 19, | 0, | 5, | 0, | 0, | 12,0 | 139,5 | 23,6 | 0,4 |
| 10-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 7,9 | 151,5 | 24,4 | 0,3 |
| 11-12-23 | 0, | 16, | 0, | 1, | 7, | 0, | 9,3 | 148,2 | 19,3 | 0,3 |
| 12-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 13,6 | 148,6 | 5,7 | 0,3 |
| 13-12-23 | 0, | 24, | 0, | 0, | 0, | 0, | 13,9 | 143,9 | 6,9 | 0,3 |
| 14-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 20,0 | 131,7 | 23,9 | 0,3 |
| 15-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 19,9 | 158,6 | 7,5 | 0,3 |
| 16-12-23 | 0, | 20, | 0, | 4, | 0, | 0, | 15,5 | 167,9 | 8,4 | 0,3 |
| 17-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 18,3 | 158,9 | 10,2 | 0,3 |
| 18-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 20,0 | 187,5 | 7,4 | 0,3 |
| 19-12-23 | 0, | 21, | 0, | 3, | 0, | 0, | 19,0 | 172,5 | 24,8 | 0,2 |
| 20-12-23 | 0, | 20, | 0, | 4, | 0, | 0, | 9,8 | 165,3 | 29,6 | 0,3 |
| 21-12-23 | 0, | 18, | 0, | 6, | 0, | 0, | 8,0 | 145,1 | 26,4 | 0,3 |
| 22-12-23 | 0, | 21, | 0, | 3, | 0, | 0, | 12,5 | 142,6 | 31,3 | 0,3 |
| 23-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 17,5 | 152,5 | 56,3 | 0,3 |
| 24-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 18,2 | 149,6 | 51,1 | 0,3 |
| 25-12-23 | 0, | 15, | 0, | 9, | 0, | 0, | 12,2 | 163,6 | 35,6 | 0,3 |
| 26-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 11,5 | 150,6 | 48,9 | 0,3 |
| 27-12-23 | 0, | 19, | 0, | 5, | 0, | 0, | 11,7 | 168,6 | 71,2 | 0,3 |
| 28-12-23 | 0, | 20, | 0, | 4, | 0, | 0, | 13,8 | 159,7 | 44,2 | 0,3 |
| 29-12-23 | 0, | 10, | 0, | 14, | 0, | 0, | 10,0 | 137,4 | 52,6 | 0,3 |
| 30-12-23 | 0, | 0, | 0, | 24, | 0, | 0, | 0,0 | N | 0,0 | N |
| 31-12-23 | 0, | 5, | 0, | 19, | 0, | 0, | 10,7 | 175,0 | 45,4 | 0,3 |
| SUMA | 0, | 611, | 0, | 126, | 7, | 0, | 11,9 | 154,7 | 34,7 | 0,3 |

| Označenie PDH / PMH | |
|---------------------|------------------|
| F | neplatná |
| N | nevyhodnotená |
| ž | ž |
| ž | platná, (≤ EL+I) |
| G | platná, (> EL+I) |

| PDH EL / PMH EL / PRH EL [mg/m ³ _n] | | | | |
|--|-----------------|-----------------|-----------------|--------------|
| Palivo | CO | NO _x | SO ₂ | TZL |
| PU | 250 / 220 / 140 | 210 / 200 / 180 | 210 / 200 / 150 | 18 / 15 / 10 |
| KP | 110 / 100 / 100 | 160 / 145 / 100 | 200 / 180 / 150 | 10 / 9 / 7 |
| ZP | 100 / 90 / 40 | 110 / 100 / 100 | 35 / 35 / 35 | 5 / 5 / 5 |

Mesačný protokol emisného monitorovania PK7_{BYPAS} Z : 12.2023

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: PK7 - Bypassový komín

| Palivo | | PU, ZP, KP | | | |
|---|------------------------------------|------------|-----------------|-----------------|--------|
| ZL | PHH - 60min. | CO | NO _x | SO ₂ | TZL |
| EL - Priemerná mesačná hodnota | [mg/m ³ _{nr}] | - | - | - | - |
| I - interval spoľahlivosti | [%EL] | 10 | 20 | 20 | 30 |
| N PHH ≤ 2.EL+I / N PHH > 2.EL+I | | - | - | - | - |
| N PHH Valid / N PHH F / N PHH E | | 7/0/0 | 7/0/0 | 5/2/2 | 6/1/1 |
| % PHH F z N _{stabil} | | 0,0 % | 0,0 % | 0,0 % | 0,0 % |
| N PDH < 1,1.EL+I / N PDH > 1,1.EL+I | | - | - | - | - |
| N PDH Valid / N PDH F / N PDH N | | 1/0/30 | 1/0/30 | 1/0/30 | 1/0/30 |
| c - priem. hm. koncent. ZL ≤ EL | [mg/m ³ _{ns}] | 11,5 | 151,0 | 1 776,2 | 67,4 |
| množstvo ZL ≤ EL | [kg] | 13,6 | 178,4 | 2 098,8 | 79,6 |
| Q Spalin ≤ EL | [tis. Nm ³] | 1 182 | 1 182 | 1 182 | 1 182 |
| c - priem. hm. koncent. ZL > EL | [mg/m ³ _{ns}] | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL > EL | [kg] | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin > EL | [tis. Nm ³] | 0 | 0 | 0 | 0 |
| množstvo ZL (N PDH F > 10, nezist. údaje) | [kg] | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin (N PDH F > 10, nezist. údaje) | [tis. Nm ³] | 0 | 0 | 0 | 0 |

| Počet hod. za mesiac - cez bypas.komín : | | | | | | | PDH - priemerné denné hodnoty [mg/m ³ _{nr}] | | | | | |
|--|-----|------|-----|------|------|------|--|-----------------|-----------------|-----|--------|---|
| Stav: | Bez | Ust | Náb | ZmQ | Vyp. | Odst | PU, ZP, KP | | | | | |
| Deň | - | ''' | N | Q | V | Z | CO | NO _x | SO ₂ | TZL | | |
| 1-12-23 | 0, | 24, | 0, | 0, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 2-12-23 | 0, | 24, | 0, | 0, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 3-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 4-12-23 | 0, | 21, | 0, | 3, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 5-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 6-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 7-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 8-12-23 | 0, | 21, | 0, | 3, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 9-12-23 | 0, | 19, | 0, | 5, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 10-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 11-12-23 | 0, | 16, | 0, | 1, | 7, | 0, | 11,5 | N | 162,1 | N | 1761,6 | N |
| 12-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 13-12-23 | 0, | 24, | 0, | 0, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 14-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 15-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 16-12-23 | 0, | 20, | 0, | 4, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 17-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 18-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 19-12-23 | 0, | 21, | 0, | 3, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 20-12-23 | 0, | 20, | 0, | 4, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 21-12-23 | 0, | 18, | 0, | 6, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 22-12-23 | 0, | 21, | 0, | 3, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 23-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 24-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 25-12-23 | 0, | 15, | 0, | 9, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 26-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 27-12-23 | 0, | 19, | 0, | 5, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 28-12-23 | 0, | 20, | 0, | 4, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 29-12-23 | 0, | 10, | 0, | 14, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 30-12-23 | 0, | 0, | 0, | 24, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 31-12-23 | 0, | 5, | 0, | 19, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| SUMA | 0, | 611, | 0, | 126, | 7, | 0, | 11,5 | | 162,1 | | 1761,6 | |

| Označenie PDH / PMH | |
|---------------------|---------------|
| F | neplatná |
| N | nevyhodnotená |
| žiane | platná |

Mesačný protokol emisného monitorovania PK6_{BYPAS} Z : 12.2023

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: PK6 - Bypassový komín

| Palivo | | PU, ZP, KP | | | |
|---|------------------------------------|------------|-----------------|-----------------|--------|
| ZL | PHH - 60min. | CO | NO _x | SO ₂ | TZL |
| EL - Priemerná mesačná hodnota | [mg/m ³ _{nr}] | - | - | - | - |
| I - interval spoľahlivosti | [%EL] | 10 | 20 | 20 | 30 |
| N PHH ≤ 2.EL+I / N PHH > 2.EL+I | | - | - | - | - |
| N PHH Valid / N PHH F / N PHH E | | 0/0/0 | 0/0/0 | 0/0/0 | 0/0/0 |
| % PHH F z N _{stabil} | | 0,0 % | 0,0 % | 0,0 % | 0,0 % |
| N PDH < 1,1.EL+I / N PDH > 1,1.EL+I | | - | - | - | - |
| N PDH Valid / N PDH F / N PDH N | | 0/0/31 | 0/0/31 | 0/0/31 | 0/0/31 |
| c - priem. hm. koncent. ZL ≤ EL | [mg/m ³ _{ns}] | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL ≤ EL | [kg] | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin ≤ EL | [tis. Nm ³] | 0 | 0 | 0 | 0 |
| c - priem. hm. koncent. ZL > EL | [mg/m ³ _{ns}] | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL > EL | [kg] | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin > EL | [tis. Nm ³] | 0 | 0 | 0 | 0 |
| množstvo ZL (N PDH F > 10, nezist. údaje) | [kg] | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin (N PDH F > 10, nezist. údaje) | [tis. Nm ³] | 0 | 0 | 0 | 0 |

| Počet hod. za mesiac - cez bypas.komín : | | | | | | | PDH - priemerné denné hodnoty [mg/m ³ _{nr}] | | | | | |
|--|-----------|-------------|-----------|------------|-----------|-----------|--|-----------------|-----------------|-----|-----|---|
| Stav: | Bez | Ust | Náb | ZmQ | Vyp. | Odst | PU, ZP, KP | | | | | |
| Deň | - | ''' | N | Q | V | Z | CO | NO _x | SO ₂ | TZL | | |
| 1-12-23 | 0, | 24, | 0, | 0, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 2-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 3-12-23 | 0, | 24, | 0, | 0, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 4-12-23 | 0, | 24, | 0, | 0, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 5-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 6-12-23 | 0, | 24, | 0, | 0, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 7-12-23 | 0, | 24, | 0, | 0, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 8-12-23 | 0, | 21, | 0, | 3, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 9-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 10-12-23 | 0, | 21, | 0, | 3, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 11-12-23 | 0, | 24, | 0, | 0, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 12-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 13-12-23 | 0, | 24, | 0, | 0, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 14-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 15-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 16-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 17-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 18-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 19-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 20-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 21-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 22-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 23-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 24-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 25-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 26-12-23 | 0, | 22, | 0, | 2, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 27-12-23 | 0, | 16, | 0, | 8, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 28-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 29-12-23 | 0, | 23, | 0, | 1, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 30-12-23 | 0, | 24, | 0, | 0, | 0, | 0, | 0,0 | N | 0,0 | N | 0,0 | N |
| 31-12-23 | 6, | 13, | 3, | 1, | 0, | 1, | 0,0 | N | 0,0 | N | 0,0 | N |
| SUMA | 6, | 693, | 3, | 41, | 0, | 1, | | | | | | |

| Označenie PDH / PMH | |
|---------------------|---------------|
| F | neplatná |
| N | nevyhodnotená |
| ž | platná |

Mesačný protokol emisného monitorovania kotla PK6 za : 12.2023

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: Kotel PK6

| Palivo | PU, ZP, KP | PU, ZP, KP | | | |
|---|------------------------------------|------------|-----------------|-----------------|-----------|
| | | CO | NO _x | SO ₂ | TZL |
| ZL | PHH - 60min. | | | | |
| PMH EL - Priemerná mesačná hodnota EL | [mg/m ³ _{nr}] | 201,6 | 188,4 | 190,0 | 13,9 |
| l - interval spoľahlivosti | [%EL] | 10 | 20 | 20 | 30 |
| PMH - Priemerná mesačná hodnota ZL | [mg/m ³ _{nr}] | 12,8 | 162,7 | 94,1 | 0,4 |
| N PHH ≤ 2.EL+I / N PHH > 2.EL+I | | 693 / 0 | 692 / 1 | 693 / 0 | 693 / 0 |
| N PHH Valid / N PHH F / N PHH E | | 693/0/5 | 693/0/5 | 693/0/5 | 693/0/5 |
| % PHH F z N _{stabil} | | 0,0 % | 0,0 % | 0,0 % | 0,0 % |
| N PDH ≤ EL+I / N PDH > EL+I | | 31 / 0 | 31 / 0 | 31 / 0 | 31 / 0 |
| N PDH Valid / N PDH F / N PDH N | | 31/0/0 | 31/0/0 | 31/0/0 | 31/0/0 |
| c - priem. hm. koncent. ZL ≤ EL | [mg/m ³ _{ns}] | 12,4 | 150,2 | 85,3 | 0,4 |
| množstvo ZL ≤ EL | [kg] | 1 350,7 | 16 315,5 | 9 267,8 | 41,7 |
| Q Spalin ≤ EL | [tis. Nm ³] | 108 609,3 | 108 609,3 | 108 609,3 | 108 609,3 |
| c - priem. hm. koncent. ZL > EL | [mg/m ³ _{ns}] | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL > EL | [kg] | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin > EL | [tis. Nm ³] | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL (N PDH F > 10, nezist. údaje) | [kg] | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin (N PDH F > 10, nezist. údaje) | [tis. Nm ³] | 0,0 | 0,0 | 0,0 | 0,0 |

| Počet hodín za mesiac - ustálený chod: 693 | | | | | | | PDH - priemerné denné hodnoty [mg/m ³ _{nr}] | | | |
|--|----------|------------|----------|-----------|----------|----------|--|-----------------|-----------------|------------|
| Stav: | Bez | Ust | Náb | ZmQ | Vyp. | Odst | PU, ZP, KP | | | |
| Deň | - | ''' | N | Q | V | Z | CO | NO _x | SO ₂ | TZL |
| 1-12-23 | 0 | 24 | 0 | 0 | 0 | 0 | 20,2 | 163,7 | 132,8 | 0,3 |
| 2-12-23 | 0 | 23 | 0 | 1 | 0 | 0 | 9,7 | 155,5 | 132,5 | 0,3 |
| 3-12-23 | 0 | 24 | 0 | 0 | 0 | 0 | 15,1 | 167,2 | 121,7 | 0,3 |
| 4-12-23 | 0 | 24 | 0 | 0 | 0 | 0 | 10,7 | 170,5 | 156,8 | 0,3 |
| 5-12-23 | 0 | 23 | 0 | 1 | 0 | 0 | 5,1 | 164,4 | 108,4 | 0,3 |
| 6-12-23 | 0 | 24 | 0 | 0 | 0 | 0 | 3,3 | 166,1 | 113,8 | 0,3 |
| 7-12-23 | 0 | 24 | 0 | 0 | 0 | 0 | 11,4 | 167,6 | 112,4 | 0,3 |
| 8-12-23 | 0 | 21 | 0 | 3 | 0 | 0 | 10,1 | 167,4 | 72,8 | 0,4 |
| 9-12-23 | 0 | 22 | 0 | 2 | 0 | 0 | 7,0 | 165,5 | 74,0 | 0,3 |
| 10-12-23 | 0 | 21 | 0 | 3 | 0 | 0 | 7,5 | 166,9 | 97,5 | 0,3 |
| 11-12-23 | 0 | 24 | 0 | 0 | 0 | 0 | 19,1 | 150,2 | 126,5 | 0,3 |
| 12-12-23 | 0 | 22 | 0 | 2 | 0 | 0 | 21,8 | 147,9 | 70,9 | 0,4 |
| 13-12-23 | 0 | 24 | 0 | 0 | 0 | 0 | 9,5 | 148,4 | 100,0 | 0,3 |
| 14-12-23 | 0 | 22 | 0 | 2 | 0 | 0 | 15,5 | 170,2 | 28,0 | 0,4 |
| 15-12-23 | 0 | 22 | 0 | 2 | 0 | 0 | 14,0 | 171,3 | 5,6 | 0,4 |
| 16-12-23 | 0 | 23 | 0 | 1 | 0 | 0 | 8,3 | 189,7 | 4,0 | 0,4 |
| 17-12-23 | 0 | 23 | 0 | 1 | 0 | 0 | 11,4 | 170,4 | 1,6 | 0,4 |
| 18-12-23 | 0 | 23 | 0 | 1 | 0 | 0 | 13,4 | 158,8 | 22,0 | 0,4 |
| 19-12-23 | 0 | 23 | 0 | 1 | 0 | 0 | 11,2 | 157,3 | 113,2 | 0,4 |
| 20-12-23 | 0 | 23 | 0 | 1 | 0 | 0 | 11,4 | 176,5 | 87,4 | 0,5 |
| 21-12-23 | 0 | 23 | 0 | 1 | 0 | 0 | 16,2 | 156,9 | 121,7 | 0,5 |
| 22-12-23 | 0 | 23 | 0 | 1 | 0 | 0 | 32,3 | 161,0 | 110,7 | 0,5 |
| 23-12-23 | 0 | 22 | 0 | 2 | 0 | 0 | 9,0 | 161,2 | 121,6 | 0,6 |
| 24-12-23 | 0 | 22 | 0 | 2 | 0 | 0 | 7,6 | 166,3 | 114,8 | 0,6 |
| 25-12-23 | 0 | 23 | 0 | 1 | 0 | 0 | 10,8 | 160,4 | 114,8 | 0,7 |
| 26-12-23 | 0 | 22 | 0 | 2 | 0 | 0 | 7,8 | 153,9 | 110,5 | 0,6 |
| 27-12-23 | 0 | 16 | 0 | 8 | 0 | 0 | 5,7 | 173,4 | 104,1 | 0,6 |
| 28-12-23 | 0 | 23 | 0 | 1 | 0 | 0 | 49,8 | 151,2 | 109,5 | 0,5 |
| 29-12-23 | 0 | 23 | 0 | 1 | 0 | 0 | 8,7 | 143,7 | 130,8 | 0,5 |
| 30-12-23 | 0 | 24 | 0 | 0 | 0 | 0 | 4,4 | 170,7 | 137,2 | 0,6 |
| 31-12-23 | 6 | 13 | 3 | 1 | 0 | 1 | 9,2 | 150,4 | 60,5 | 0,6 |
| SUMA | 6 | 693 | 3 | 41 | 0 | 1 | 12,8 | 162,7 | 94,1 | 0,4 |

| Označenie PDH / PMH | |
|---------------------|------------------|
| F | neplatná |
| N | nevyhodnotená |
| ž | platná, (≤ EL+I) |
| G | platná, (> EL+I) |

| PDH EL / PMH EL / PRH EL [mg/m ³ _{nr}] | | | | |
|---|-----------------|-----------------|-----------------|--------------|
| Palivo | CO | NO _x | SO ₂ | TZL |
| PU | 250 / 220 / 140 | 210 / 200 / 180 | 210 / 200 / 150 | 18 / 15 / 10 |
| KP | 110 / 100 / 100 | 160 / 145 / 100 | 200 / 180 / 150 | 10 / 9 / 7 |
| ZP | 100 / 90 / 40 | 110 / 100 / 100 | 35 / 35 / 35 | 5 / 5 / 5 |

Mesačný protokol emisných hodnôt pre VP1 za: 12.2023

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: VP1

| Vysoká pec | | |
|--|-----------|----------------------|
| ZL | PPH 30min | TZL |
| Jednotky pre PDH, PMH, EL | | [mg/m ³] |
| EL - Emisný limit | | 15 |
| I - Interval spoľahlivosti [% EL] | | 30 |
| N PPH ≤ 1,2.EL+I / >1,2.EL+I / > 2.EL+I | | 1 363/0/0 |
| N PDH ≤ EL + I / PDH > EL + I | | 29/0 |
| % PPH ≤ 1,2 EL+I | | 100,0 |
| N PPH F / %PPH F (nepl.) | | 0/0,0 |
| N PPH Valid / N PPH E (náhr.) | | 1 363/2 |
| N PDH Valid / N PDH F / N PDH N | | 29/0/2 |
| c - priem. hm. koncent. ZL ≤ EL [mg/m ³ _{ns}] | | 1,7 |
| množstvo ZL ≤ EL [kg] | | 492,6 |
| Q Spalin ≤ EL [tis. Nm ³] | | 294 643,3 |
| c - priem. hm. koncent. ZL > EL [mg/m ³ _{ns}] | | 0,0 |
| množstvo ZL > EL [kg] | | 0,0 |
| Q Spalin > EL [tis. Nm ³] | | 0,0 |
| množstvo ZL (N PDH F > 10, nezist. údaje) [kg] | | 0,0 |
| Q Spalin (N PDH F > 10, nezist. údaje) [tis. Nm ³] | | 0,0 |

| Počet hodín za mesiac - ust. chod: 681,5 | | | | | | PDH |
|--|-------------|--------------|-----------|-----------|-----------|----------------------|
| Stav: | Bez | Ust | Náb | ZmQ | Odst | TZL |
| Deň | - | ''' | N | Q | Z | [mg/m ³] |
| 1-12-23 | 0, | 48, | 0, | 0, | 0, | 1,66 |
| 2-12-23 | 0, | 48, | 0, | 0, | 0, | 1,51 |
| 3-12-23 | 0, | 48, | 0, | 0, | 0, | 2,25 |
| 4-12-23 | 0, | 48, | 0, | 0, | 0, | 1,35 |
| 5-12-23 | 0, | 48, | 0, | 0, | 0, | 1,46 |
| 6-12-23 | 0, | 48, | 0, | 0, | 0, | 1,47 |
| 7-12-23 | 0, | 48, | 0, | 0, | 0, | 2,07 |
| 8-12-23 | 0, | 48, | 0, | 0, | 0, | 1,39 |
| 9-12-23 | 0, | 48, | 0, | 0, | 0, | 1,73 |
| 10-12-23 | 0, | 48, | 0, | 0, | 0, | 1,62 |
| 11-12-23 | 0, | 48, | 0, | 0, | 0, | 1,26 |
| 12-12-23 | 9, | 38, | 0, | 0, | 1, | 1,43 |
| 13-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 N |
| 14-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 N |
| 15-12-23 | 10, | 29, | 6, | 3, | 0, | 3,82 |
| 16-12-23 | 0, | 48, | 0, | 0, | 0, | 1,67 |
| 17-12-23 | 0, | 48, | 0, | 0, | 0, | 1,43 |
| 18-12-23 | 0, | 48, | 0, | 0, | 0, | 1,26 |
| 19-12-23 | 0, | 48, | 0, | 0, | 0, | 1,56 |
| 20-12-23 | 0, | 48, | 0, | 0, | 0, | 1,30 |
| 21-12-23 | 0, | 48, | 0, | 0, | 0, | 1,79 |
| 22-12-23 | 0, | 48, | 0, | 0, | 0, | 1,57 |
| 23-12-23 | 0, | 48, | 0, | 0, | 0, | 2,07 |
| 24-12-23 | 0, | 48, | 0, | 0, | 0, | 1,73 |
| 25-12-23 | 0, | 48, | 0, | 0, | 0, | 1,67 |
| 26-12-23 | 0, | 48, | 0, | 0, | 0, | 2,00 |
| 27-12-23 | 0, | 48, | 0, | 0, | 0, | 1,90 |
| 28-12-23 | 0, | 48, | 0, | 0, | 0, | 1,26 |
| 29-12-23 | 0, | 48, | 0, | 0, | 0, | 1,64 |
| 30-12-23 | 0, | 48, | 0, | 0, | 0, | 1,40 |
| 31-12-23 | 0, | 48, | 0, | 0, | 0, | 1,82 |
| SUMA | 115, | 1363, | 6, | 3, | 1, | 1,69 |

| Označenie PDH, PMH | |
|--------------------|--|
| F | neplatná PDH (Počet planých PPH < 2/3 počtu PPH Ust.prevádz.) |
| N | nevýhodnotená PDH, PMH (Počet PPH Ustálenej prevádzky = 0) |
| | platná PDH, PMH |
| G | PDH>EL+I |

Mesačný protokol emisných hodnôt pre VP2 za: 12.2023

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: VP2

| Vysoká pec | | |
|---|------------------------------------|----------------------|
| ZL | PPH 30min | TZL |
| Jednotky pre PDH, PMH, EL | | [mg/m ³] |
| EL - Emisný limit | | 15 |
| I - Interval spoľahlivosti [% EL] | | 30 |
| N PPH ≤ 1,2.EL+I / >1,2.EL+I / > 2.EL+I | | 598/0/0 |
| N PDH ≤ EL + I / PDH > EL + I | | 13/0 |
| % PPH ≤ 1.2 EL+ I | | 100,0 |
| N PPH F / %PPH F (nepl.) | | 0/0,0 |
| N PPH Valid / N PPH E (náhr.) | | 598/0 |
| N PDH Valid / N PDH F / N PDH N | | 13/0/18 |
| c - priem. hm. koncent. ZL ≤ EL | [mg/m ³ _{ns}] | 0,4 |
| množstvo ZL ≤ EL | [kg] | 82,4 |
| Q Spalin ≤ EL | [tis. Nm ³] | 197 987,0 |
| c - priem. hm. koncent. ZL > EL | [mg/m ³ _{ns}] | 0,0 |
| množstvo ZL > EL | [kg] | 0,0 |
| Q Spalin > EL | [tis. Nm ³] | 0,0 |
| množstvo ZL (N PDH F > 10, nezist. údaje) | [kg] | 0,0 |
| Q Spalin (N PDH F > 10, nezist. údaje) | [tis. Nm ³] | 0,0 |

| Počet hodín za mesiac - ust. chod: 299 | | | | | | PDH |
|--|-------------|-------------|-----------|-----------|-----------|----------------------|
| Stav: | Bez | Ust | Náb | ZmQ | Odst | TZL |
| Deň | - | ''' | N | Q | Z | [mg/m ³] |
| 1-12-23 | 0, | 48, | 0, | 0, | 0, | 0,42 |
| 2-12-23 | 0, | 48, | 0, | 0, | 0, | 0,32 |
| 3-12-23 | 0, | 48, | 0, | 0, | 0, | 0,63 |
| 4-12-23 | 0, | 48, | 0, | 0, | 0, | 0,32 |
| 5-12-23 | 0, | 48, | 0, | 0, | 0, | 0,38 |
| 6-12-23 | 0, | 48, | 0, | 0, | 0, | 0,32 |
| 7-12-23 | 0, | 48, | 0, | 0, | 0, | 0,28 |
| 8-12-23 | 0, | 48, | 0, | 0, | 0, | 0,55 |
| 9-12-23 | 0, | 48, | 0, | 0, | 0, | 0,40 |
| 10-12-23 | 0, | 48, | 0, | 0, | 0, | 0,49 |
| 11-12-23 | 0, | 48, | 0, | 0, | 0, | 0,31 |
| 12-12-23 | 0, | 48, | 0, | 0, | 0, | 0,06 |
| 13-12-23 | 25, | 22, | 0, | 0, | 1, | 0,02 |
| 14-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 15-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 16-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 17-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 18-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 19-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 20-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 21-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 22-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 23-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 24-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 25-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 26-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 27-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 28-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 29-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 30-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| 31-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 |
| SUMA | 889, | 598, | 0, | 0, | 1, | 0,35 |

| Označenie PDH, PMH | |
|--------------------|--|
| F | neplatná PDH (Počet planých PPH < 2/3 počtu PPH Ust.prevádz.) |
| N | nevyhodnotená PDH, PMH (Počet PPH Ustálenej prevádzky = 0) |
| | platná PDH, PMH |
| G | PDH>EL+I |

Mesačný protokol emisných hodnôt pre VP3 za: 12.2023

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: VP3

| Vysoká pec | | |
|---|------------------------------------|----------------------|
| ZL | PPH 30min | TZL |
| Jednotky pre PDH, PMH, EL | | [mg/m ³] |
| EL - Emisný limit | | 15 |
| I - Interval spoľahlivosti [% EL] | | 30 |
| N PPH ≤ 1,2.EL+I / >1,2.EL+I / > 2.EL+I | | 1 476/0/0 |
| N PDH ≤ EL + I / PDH > EL + I | | 31/0 |
| % PPH ≤ 1.2 EL+ I | | 100,0 |
| N PPH F / %PPH F (nepl.) | | 1/0,1 |
| N PPH Valid / N PPH E (náhr.) | | 1 476/1 |
| N PDH Valid / N PDH F / N PDH N | | 31/0/0 |
| c - priem. hm. koncent. ZL ≤ EL | [mg/m ³ _{ns}] | 0,2 |
| množstvo ZL ≤ EL | [kg] | 139,3 |
| Q Spalin ≤ EL | [tis. Nm ³] | 562 001,8 |
| c - priem. hm. koncent. ZL > EL | [mg/m ³ _{ns}] | 0,0 |
| množstvo ZL > EL | [kg] | 0,0 |
| Q Spalin > EL | [tis. Nm ³] | 0,0 |
| množstvo ZL (N PDH F > 10, nezist. údaje) | [kg] | 0,0 |
| Q Spalin (N PDH F > 10, nezist. údaje) | [tis. Nm ³] | 0,0 |

| Počet hodín za mesiac - ust. chod: 738,5 | | | | | | PDH |
|--|-----------|--------------|-----------|-----------|-----------|----------------------|
| Stav: | Bez | Ust | Náb | ZmQ | Odst | TZL |
| Deň | - | ''' | N | Q | Z | [mg/m ³] |
| 1-12-23 | 0, | 48, | 0, | 0, | 0, | 0,22 |
| 2-12-23 | 0, | 48, | 0, | 0, | 0, | 0,22 |
| 3-12-23 | 0, | 48, | 0, | 0, | 0, | 0,30 |
| 4-12-23 | 0, | 48, | 0, | 0, | 0, | 0,24 |
| 5-12-23 | 0, | 48, | 0, | 0, | 0, | 0,25 |
| 6-12-23 | 0, | 48, | 0, | 0, | 0, | 0,19 |
| 7-12-23 | 0, | 48, | 0, | 0, | 0, | 0,20 |
| 8-12-23 | 0, | 48, | 0, | 0, | 0, | 0,20 |
| 9-12-23 | 0, | 48, | 0, | 0, | 0, | 0,20 |
| 10-12-23 | 0, | 48, | 0, | 0, | 0, | 0,20 |
| 11-12-23 | 0, | 48, | 0, | 0, | 0, | 0,26 |
| 12-12-23 | 0, | 48, | 0, | 0, | 0, | 0,23 |
| 13-12-23 | 0, | 48, | 0, | 0, | 0, | 0,08 |
| 14-12-23 | 0, | 48, | 0, | 0, | 0, | 0,17 |
| 15-12-23 | 0, | 48, | 0, | 0, | 0, | 0,25 |
| 16-12-23 | 0, | 48, | 0, | 0, | 0, | 0,33 |
| 17-12-23 | 0, | 48, | 0, | 0, | 0, | 0,32 |
| 18-12-23 | 0, | 48, | 0, | 0, | 0, | 0,33 |
| 19-12-23 | 0, | 48, | 0, | 0, | 0, | 0,29 |
| 20-12-23 | 0, | 48, | 0, | 0, | 0, | 0,27 |
| 21-12-23 | 0, | 48, | 0, | 0, | 0, | 0,30 |
| 22-12-23 | 0, | 48, | 0, | 0, | 0, | 0,36 |
| 23-12-23 | 0, | 48, | 0, | 0, | 0, | 0,27 |
| 24-12-23 | 0, | 48, | 0, | 0, | 0, | 0,23 |
| 25-12-23 | 0, | 48, | 0, | 0, | 0, | 0,27 |
| 26-12-23 | 4, | 37, | 6, | 0, | 1, | 0,27 |
| 27-12-23 | 0, | 48, | 0, | 0, | 0, | 0,20 |
| 28-12-23 | 0, | 48, | 0, | 0, | 0, | 0,27 |
| 29-12-23 | 0, | 48, | 0, | 0, | 0, | 0,19 |
| 30-12-23 | 0, | 48, | 0, | 0, | 0, | 0,27 |
| 31-12-23 | 0, | 48, | 0, | 0, | 0, | 0,22 |
| SUMA | 4, | 1477, | 6, | 0, | 1, | 0,24 |

| Označenie PDH, PMH | |
|--------------------|--|
| F | neplatná PDH (Počet planých PPH < 2/3 počtu PPH Ust.prevádz.) |
| N | nevyhodnotená PDH, PMH (Počet PPH Ustálenej prevádzky = 0) |
| | platná PDH, PMH |
| G | PDH>EL+I |

Mesačný protokol emisných hodnôt pre OC1 za: 12.2023

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: OC1

| Oceliarení | | |
|---|------------------------------------|----------------------|
| ZL | PPH 30min | TZL |
| Jednotky pre PDH, PMH, EL | | [mg/m ³] |
| EL - Emisný limit | | 15 |
| I - Interval spoľahlivosti [% EL] | | 30 |
| N PPH ≤ 1,2.EL+I / >1,2.EL+I / > 2.EL+I | | 1 387/0/0 |
| N PDH ≤ EL + I / PDH > EL + I | | 30/0 |
| % PPH ≤ 1.2 EL+ I | | 100,0 |
| N PPH F / %PPH F (nepl.) | | 0/0,0 |
| N PPH Valid / N PPH E (náhr.) | | 1 387/1 |
| N PDH Valid / N PDH F / N PDH N | | 30/0/1 |
| c - priem. hm. koncent. ZL ≤ EL | [mg/m ³ _{ns}] | 1,0 |
| množstvo ZL ≤ EL | [kg] | 763,0 |
| Q Spalin ≤ EL | [tis. Nm ³] | 768 523,9 |
| c - priem. hm. koncent. ZL > EL | [mg/m ³ _{ns}] | 0,0 |
| množstvo ZL > EL | [kg] | 0,0 |
| Q Spalin > EL | [tis. Nm ³] | 0,0 |
| množstvo ZL (N PDH F > 10, nezist. údaje) | [kg] | 0,0 |
| Q Spalin (N PDH F > 10, nezist. údaje) | [tis. Nm ³] | 0,0 |

| Počet hodín za mesiac - ust. chod: 693,5 | | | | | | PDH |
|--|------------|--------------|-----------|-----------|-----------|----------------------|
| Stav: | Bez | Ust | Náb | ZmQ | Odst | TZL |
| Deň | - | ''' | N | Q | Z | [mg/m ³] |
| 1-12-23 | 0, | 48, | 0, | 0, | 0, | 0,81 |
| 2-12-23 | 0, | 48, | 0, | 0, | 0, | 0,90 |
| 3-12-23 | 0, | 48, | 0, | 0, | 0, | 1,17 |
| 4-12-23 | 0, | 48, | 0, | 0, | 0, | 1,94 |
| 5-12-23 | 0, | 48, | 0, | 0, | 0, | 1,44 |
| 6-12-23 | 0, | 48, | 0, | 0, | 0, | 1,00 |
| 7-12-23 | 0, | 48, | 0, | 0, | 0, | 0,89 |
| 8-12-23 | 0, | 48, | 0, | 0, | 0, | 1,17 |
| 9-12-23 | 0, | 48, | 0, | 0, | 0, | 1,01 |
| 10-12-23 | 0, | 48, | 0, | 0, | 0, | 0,97 |
| 11-12-23 | 0, | 48, | 0, | 0, | 0, | 1,13 |
| 12-12-23 | 0, | 48, | 0, | 0, | 0, | 1,84 |
| 13-12-23 | 44, | 3, | 0, | 0, | 1, | 3,87 |
| 14-12-23 | 48, | 0, | 0, | 0, | 0, | 0,00 N |
| 15-12-23 | 2, | 40, | 6, | 0, | 0, | 0,69 |
| 16-12-23 | 0, | 48, | 0, | 0, | 0, | 0,97 |
| 17-12-23 | 0, | 48, | 0, | 0, | 0, | 0,90 |
| 18-12-23 | 0, | 48, | 0, | 0, | 0, | 0,96 |
| 19-12-23 | 0, | 48, | 0, | 0, | 0, | 0,90 |
| 20-12-23 | 0, | 48, | 0, | 0, | 0, | 0,95 |
| 21-12-23 | 0, | 48, | 0, | 0, | 0, | 0,94 |
| 22-12-23 | 0, | 48, | 0, | 0, | 0, | 0,89 |
| 23-12-23 | 0, | 48, | 0, | 0, | 0, | 1,06 |
| 24-12-23 | 0, | 48, | 0, | 0, | 0, | 0,89 |
| 25-12-23 | 0, | 48, | 0, | 0, | 0, | 0,96 |
| 26-12-23 | 0, | 48, | 0, | 0, | 0, | 0,98 |
| 27-12-23 | 0, | 48, | 0, | 0, | 0, | 0,88 |
| 28-12-23 | 0, | 48, | 0, | 0, | 0, | 0,96 |
| 29-12-23 | 0, | 48, | 0, | 0, | 0, | 0,81 |
| 30-12-23 | 0, | 48, | 0, | 0, | 0, | 0,79 |
| 31-12-23 | 0, | 48, | 0, | 0, | 0, | 0,83 |
| SUMA | 94, | 1387, | 6, | 0, | 1, | 1,12 |

| Označenie PDH / PMH | |
|---------------------|--------------------|
| F | neplatná |
| N | nevyhodnotená |
| žiadne | platná, (≤ EL+I) |
| G | platná, (> EL+I) |

Mesačný protokol emisných hodnôt pre OC2 za: 12.2023

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: OC2

| Oceliareň | | |
|---|------------------------------------|----------------------|
| ZL | PPH 30min | TZL |
| Jednotky pre PDH, PMH, EL | | [mg/m ³] |
| EL - Emisný limit | | 15 |
| I - Interval spoľahlivosti [% EL] | | 30 |
| N PPH ≤ 1,2.EL+I / >1,2.EL+I / > 2.EL+I | | 1 409/0/0 |
| N PDH ≤ EL + I / PDH > EL + I | | 31/0 |
| % PPH ≤ 1.2 EL+ I | | 100,0 |
| N PPH F / %PPH F (nepl.) | | 0/0,0 |
| N PPH Valid / N PPH E (náhr.) | | 1 409/0 |
| N PDH Valid / N PDH F / N PDH N | | 31/0/0 |
| c - priem. hm. koncent. ZL ≤ EL | [mg/m ³ _{ns}] | 0,4 |
| množstvo ZL ≤ EL | [kg] | 241,2 |
| Q Spalin ≤ EL | [tis. Nm ³] | 665 016,9 |
| c - priem. hm. koncent. ZL > EL | [mg/m ³ _{ns}] | 0,0 |
| množstvo ZL > EL | [kg] | 0,0 |
| Q Spalin > EL | [tis. Nm ³] | 0,0 |
| množstvo ZL (N PDH F > 10, nezist. údaje) | [kg] | 0,0 |
| Q Spalin (N PDH F > 10, nezist. údaje) | [tis. Nm ³] | 0,0 |

| Počet hodín za mesiac - ust. chod: 704,5 | | | | | | PDH |
|--|------------|--------------|------------|-----------|-----------|----------------------|
| Stav: | Bez | Ust | Náb | ZmQ | Odst | TZL |
| Deň | - | "" | N | Q | Z | [mg/m ³] |
| 1-12-23 | 0, | 48, | 0, | 0, | 0, | 0,53 |
| 2-12-23 | 0, | 48, | 0, | 0, | 0, | 0,59 |
| 3-12-23 | 0, | 41, | 6, | 0, | 1, | 0,51 |
| 4-12-23 | 0, | 48, | 0, | 0, | 0, | 0,61 |
| 5-12-23 | 0, | 48, | 0, | 0, | 0, | 0,68 |
| 6-12-23 | 0, | 48, | 0, | 0, | 0, | 0,79 |
| 7-12-23 | 0, | 48, | 0, | 0, | 0, | 0,77 |
| 8-12-23 | 0, | 48, | 0, | 0, | 0, | 0,78 |
| 9-12-23 | 0, | 48, | 0, | 0, | 0, | 0,79 |
| 10-12-23 | 0, | 48, | 0, | 0, | 0, | 0,66 |
| 11-12-23 | 0, | 48, | 0, | 0, | 0, | 0,70 |
| 12-12-23 | 0, | 48, | 0, | 0, | 0, | 0,70 |
| 13-12-23 | 36, | 11, | 0, | 0, | 1, | 0,17 |
| 14-12-23 | 22, | 20, | 6, | 0, | 0, | 0,10 |
| 15-12-23 | 0, | 48, | 0, | 0, | 0, | 0,22 |
| 16-12-23 | 0, | 48, | 0, | 0, | 0, | 0,17 |
| 17-12-23 | 0, | 41, | 6, | 0, | 1, | 0,18 |
| 18-12-23 | 0, | 48, | 0, | 0, | 0, | 0,16 |
| 19-12-23 | 0, | 48, | 0, | 0, | 0, | 0,21 |
| 20-12-23 | 0, | 48, | 0, | 0, | 0, | 0,16 |
| 21-12-23 | 0, | 48, | 0, | 0, | 0, | 0,16 |
| 22-12-23 | 0, | 48, | 0, | 0, | 0, | 0,17 |
| 23-12-23 | 0, | 48, | 0, | 0, | 0, | 0,16 |
| 24-12-23 | 0, | 48, | 0, | 0, | 0, | 0,15 |
| 25-12-23 | 0, | 48, | 0, | 0, | 0, | 0,15 |
| 26-12-23 | 0, | 48, | 0, | 0, | 0, | 0,15 |
| 27-12-23 | 0, | 48, | 0, | 0, | 0, | 0,15 |
| 28-12-23 | 0, | 48, | 0, | 0, | 0, | 0,15 |
| 29-12-23 | 0, | 48, | 0, | 0, | 0, | 0,14 |
| 30-12-23 | 0, | 48, | 0, | 0, | 0, | 0,14 |
| 31-12-23 | 0, | 48, | 0, | 0, | 0, | 0,15 |
| SUMA | 58, | 1409, | 18, | 0, | 3, | 0,36 |

| Označenie PDH / PMH | |
|---------------------|--------------------|
| F | neplatná |
| N | nevyhodnotená |
| žiadne | platná, (≤ EL+I) |
| G | platná, (> EL+I) |

Mesačný protokol emisných hodnôt pre Komín 3 za : **12.2023**

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: VKB3 - Komín 3

| VKB3 | | |
|---|------------------------------------|------------------------------------|
| ZL | PPH - 30min. | TZL |
| Jednotky pre PDH, PMH, EL | | [mg/m ³ _{nr}] |
| EL - Emisný limit | [mg/m ³ _{nr}] | 100 |
| I - Interval spoľahlivosti | [% EL] | 30 |
| N PPH ≤ 1,2.EL+I / >1,2.EL+I / > 2.EL + I | | 847/0/0 |
| % PPH ≤ 1,2 EL+ I | | 100,0 |
| N PPH F / %PPH F (nepl.) | | 0/0,0 |
| N PPH Valid / N PPH E (náhr.) | | 847/0 |
| N PDH ≤ EL + I / PDH > EL + I | | 29/0 |
| N PDH Valid / N PDH F / N PDH N | | 29/0/2 |
| c - priem. hm. koncent. ZL ≤ EL | [mg/m ³ _{ns}] | 18,5 |
| množstvo ZL ≤ EL | | [kg] |
| Q Spalin ≤ EL | | [tis. Nm ³] |
| c - priem. hm. koncent. ZL > EL | | [mg/m ³ _{ns}] |
| množstvo ZL > EL | | [kg] |
| Q Spalin > EL | | [tis. Nm ³] |
| množstvo ZL (N PDH F > 10, nezist. údaje) | | [kg] |
| Q Spalin (N PDH F > 10, nezist. údaje) | | [tis. Nm ³] |

| Počet hodín za mesiac - ust. chod: 423,5 | | | | | | PDH |
|--|-----|-----|-----|-----|------|------------------------------------|
| Stav _{30MIN.} | Bez | Ust | Náb | ZmQ | Odst | TZL |
| Deň | - | ''' | N | Q | Z | [mg/m ³ _{nr}] |
| 1-12-23 | 0 | 48 | 0 | 0 | 0 | 11 |
| 2-12-23 | 0 | 40 | 0 | 8 | 0 | 3 |
| 3-12-23 | 0 | 44 | 0 | 4 | 0 | 10 |
| 4-12-23 | 0 | 4 | 0 | 44 | 0 | 5 |
| 5-12-23 | 0 | 22 | 0 | 26 | 0 | 19 |
| 6-12-23 | 0 | 6 | 0 | 42 | 0 | 15 |
| 7-12-23 | 0 | 48 | 0 | 0 | 0 | 27 |
| 8-12-23 | 0 | 48 | 0 | 0 | 0 | 19 |
| 9-12-23 | 0 | 48 | 0 | 0 | 0 | 2 |
| 10-12-23 | 0 | 48 | 0 | 0 | 0 | 18 |
| 11-12-23 | 0 | 48 | 0 | 0 | 0 | 22 |
| 12-12-23 | 0 | 2 | 0 | 46 | 0 | 0 |
| 13-12-23 | 0 | 0 | 0 | 48 | 0 | 0 N |
| 14-12-23 | 0 | 0 | 0 | 48 | 0 | 0 N |
| 15-12-23 | 0 | 16 | 0 | 32 | 0 | 23 |
| 16-12-23 | 0 | 44 | 0 | 4 | 0 | 17 |
| 17-12-23 | 0 | 41 | 0 | 7 | 0 | 3 |
| 18-12-23 | 0 | 40 | 0 | 8 | 0 | 2 |
| 19-12-23 | 0 | 23 | 0 | 25 | 0 | 2 |
| 20-12-23 | 0 | 9 | 0 | 39 | 0 | 21 |
| 21-12-23 | 0 | 48 | 0 | 0 | 0 | 7 |
| 22-12-23 | 0 | 12 | 0 | 36 | 0 | 0 |
| 23-12-23 | 0 | 15 | 0 | 33 | 0 | 0 |
| 24-12-23 | 0 | 21 | 0 | 27 | 0 | 16 |
| 25-12-23 | 0 | 31 | 0 | 17 | 0 | 14 |
| 26-12-23 | 0 | 4 | 0 | 44 | 0 | 4 |
| 27-12-23 | 0 | 13 | 0 | 35 | 0 | 33 |
| 28-12-23 | 0 | 48 | 0 | 0 | 0 | 6 |
| 29-12-23 | 0 | 48 | 0 | 0 | 0 | 21 |
| 30-12-23 | 0 | 12 | 0 | 36 | 0 | 15 |
| 31-12-23 | 0 | 16 | 0 | 32 | 0 | 8 |
| SUMA | 0 | 847 | 0 | 641 | 0 | 11,8 |

| Označenie PDH, PMH | |
|--------------------|---|
| F | neplatná PDH (Počet planých PPH < 2/3 počtu PPH Ust. prevádz.) |
| N | nevyhodnotená PDH, PMH (Počet PPH Ustálenej prevádzky = 0) |
| žiadne | platná, PDH ≤ EL + I |
| G | platná, PDH > EL + I |

Mesačný protokol emisných hodnôt pre Komín 4 za :

12.2023

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: VKB3 - Komín 4

| VKB3 | | |
|---|------------------------------------|------------------------------------|
| ZL | PPH - 30min. | TZL |
| Jednotky pre PDH, PMH, EL | | [mg/m ³ _{nr}] |
| EL - Emisný limit | [mg/m ³ _{nr}] | 100 |
| I - Interval spoľahlivosti | [% EL] | 30 |
| N PPH ≤ 1,2.EL+I / >1,2.EL+I / > 2.EL + I | | 1 106/0/0 |
| % PPH ≤ 1.2 EL+ I | | 100,0 |
| N PPH F / %PPH F (nepl.) | | 0/0,0 |
| N PPH Valid / N PPH E (náhr.) | | 1 106/0 |
| N PDH ≤ EL + I / PDH > EL + I | | 29/0 |
| N PDH Valid / N PDH F / N PDH N | | 29/0/2 |
| c - priem. hm. koncent. ZL ≤ EL | [mg/m ³ _{ns}] | 18,5 |
| množstvo ZL ≤ EL | [kg] | 1 959,1 |
| Q Spalin ≤ EL | [tis. Nm ³] | 106 090,8 |
| c - priem. hm. koncent. ZL > EL | [mg/m ³ _{ns}] | 0,0 |
| množstvo ZL > EL | [kg] | 0,0 |
| Q Spalin > EL | [tis. Nm ³] | 0,0 |
| množstvo ZL (N PDH F > 10, nezist. údaje) | [kg] | 0,0 |
| Q Spalin (N PDH F > 10, nezist. údaje) | [tis. Nm ³] | 0,0 |

| Počet hodín za mesiac - ust. chod: 553 | | | | | | PDH |
|--|-----|-------|-----|------|------|------------------------------------|
| Stav _{30MIN} : | Bez | Ust | Náb | ZmQ | Odst | TZL |
| Deň | - | "" | N | Q | Z | [mg/m ³ _{nr}] |
| 1-12-23 | 0, | 41, | 0, | 7, | 0, | 38 |
| 2-12-23 | 0, | 48, | 0, | 0, | 0, | 30 |
| 3-12-23 | 0, | 48, | 0, | 0, | 0, | 39 |
| 4-12-23 | 0, | 32, | 0, | 16, | 0, | 44 |
| 5-12-23 | 0, | 32, | 0, | 16, | 0, | 39 |
| 6-12-23 | 0, | 48, | 0, | 0, | 0, | 39 |
| 7-12-23 | 0, | 48, | 0, | 0, | 0, | 38 |
| 8-12-23 | 0, | 48, | 0, | 0, | 0, | 35 |
| 9-12-23 | 0, | 48, | 0, | 0, | 0, | 24 |
| 10-12-23 | 0, | 32, | 0, | 16, | 0, | 48 |
| 11-12-23 | 0, | 24, | 0, | 24, | 0, | 47 |
| 12-12-23 | 0, | 2, | 0, | 46, | 0, | 18 |
| 13-12-23 | 0, | 0, | 0, | 48, | 0, | 0 N |
| 14-12-23 | 0, | 0, | 0, | 48, | 0, | 0 N |
| 15-12-23 | 0, | 31, | 0, | 17, | 0, | 51 |
| 16-12-23 | 0, | 48, | 0, | 0, | 0, | 40 |
| 17-12-23 | 0, | 48, | 0, | 0, | 0, | 32 |
| 18-12-23 | 0, | 32, | 0, | 16, | 0, | 24 |
| 19-12-23 | 0, | 48, | 0, | 0, | 0, | 24 |
| 20-12-23 | 0, | 27, | 0, | 21, | 0, | 36 |
| 21-12-23 | 0, | 21, | 0, | 27, | 0, | 24 |
| 22-12-23 | 0, | 32, | 0, | 16, | 0, | 30 |
| 23-12-23 | 0, | 48, | 0, | 0, | 0, | 27 |
| 24-12-23 | 0, | 48, | 0, | 0, | 0, | 32 |
| 25-12-23 | 0, | 48, | 0, | 0, | 0, | 36 |
| 26-12-23 | 0, | 48, | 0, | 0, | 0, | 37 |
| 27-12-23 | 0, | 48, | 0, | 0, | 0, | 39 |
| 28-12-23 | 0, | 32, | 0, | 16, | 0, | 31 |
| 29-12-23 | 0, | 48, | 0, | 0, | 0, | 39 |
| 30-12-23 | 0, | 1, | 0, | 47, | 0, | 42 |
| 31-12-23 | 0, | 47, | 0, | 1, | 0, | 30 |
| SUMA | 0, | 1106, | 0, | 382, | 0, | 35,0 |

| Označenie PDH, PMH | |
|--------------------|--|
| F | neplatná PDH (Počet planých PPH < 2/3 počtu PPH Ust.prevádz.) |
| N | nevýhodnotená PDH, PMH (Počet PPH Ustálenej prevádzky = 0) |
| žiadne | platná, PDH ≤ EL + I |
| G | platná, PDH > EL + I |

Mesačný protokol emisných hodnôt pre SP1 za : 12.2023

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: Spekáci pás SP1

| Spekáci pás | | | | | | |
|---|-----------|------------------------------------|----------------------|----------------------|----------------------|-----------|
| ZL | PPH 30min | CO | NO _x | SO ₂ | TZL | |
| Jednotky pre PDH, PMH, EL | | [mg/m ³ _{nr}] | [mg/m ³] | [mg/m ³] | [mg/m ³] | |
| EL - Emisný limit | | 6 000 | 400 | 495 | 15 | |
| I - Interval spofahlivosti [% EL] | | 10 | 20 | 20 | 30 | |
| N PPH ≤ 1,2.EL+I / >1,2.EL+I / > 2.EL + I | | 787/0/0 | 787/0/0 | 787/0/0 | 786/1/0 | |
| % PPH ≤ 1.2 EL+ I | | 100,0 | 100,0 | 100,0 | 99,9 | |
| N PPH F / %PPH F (nepl.) | | 1/0,1 | 1/0,1 | 1/0,1 | 1/0,1 | |
| N PPH Valid / N PPH E (náhr.) | | 787/28 | 787/28 | 787/28 | 787/53 | |
| N PDH ≤ EL + I / PDH > EL + I | | 23/0 | 23/0 | 23/0 | 23/0 | |
| N PDH Valid / N PDH F / N PDH N | | 23/0/8 | 23/0/8 | 23/0/8 | 23/0/8 | |
| c - priem. hm. koncent. ZL ≤ EL | | [mg/m ³ _{ns}] | 4 055,2 | 130,9 | 107,4 | 0,2 |
| množstvo ZL ≤ EL | | [kg] | 817 420,0 | 26 380,0 | 21 651,4 | 34,8 |
| Q Spalin ≤ EL | | [tis. Nm ³] | 201 572,2 | 201 572,2 | 201 572,2 | 201 572,2 |
| c - priem. hm. koncent. ZL > EL | | [mg/m ³ _{ns}] | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL > EL | | [kg] | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin > EL | | [tis. Nm ³] | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL (N PDH F > 10, nezist. údaje) | | [kg] | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin (N PDH F > 10, nezist. údaje) | | [tis. Nm ³] | 0,0 | 0,0 | 0,0 | 0,0 |

| Počet hodín za mesiac - ustálený chod : | | | | | | PDH - priemerné denné hodnoty | | | | | | |
|---|------|------|-----|-----|------|------------------------------------|----------------------|----------------------|----------------------|-----|---|-----|
| Stav: | Bez | Ust | Náb | ZmQ | Odst | CO | NO _x | SO ₂ | TZL | | | |
| Deň | - | ''' | N | Q | Z | [mg/m ³ _{nr}] | [mg/m ³] | [mg/m ³] | [mg/m ³] | | | |
| 1-12-23 | 48, | 0, | 0, | 0, | 0, | 0 | N | 0 | N | 0,0 | N | |
| 2-12-23 | 48, | 0, | 0, | 0, | 0, | 0 | N | 0 | N | 0,0 | N | |
| 3-12-23 | 48, | 0, | 0, | 0, | 0, | 0 | N | 0 | N | 0,0 | N | |
| 4-12-23 | 48, | 0, | 0, | 0, | 0, | 0 | N | 0 | N | 0,0 | N | |
| 5-12-23 | 48, | 0, | 0, | 0, | 0, | 0 | N | 0 | N | 0,0 | N | |
| 6-12-23 | 48, | 0, | 0, | 0, | 0, | 0 | N | 0 | N | 0,0 | N | |
| 7-12-23 | 22, | 21, | 4, | 0, | 1, | 2 907 | | 169 | | 69 | | 0,0 |
| 8-12-23 | 3, | 40, | 3, | 0, | 2, | 2 729 | | 152 | | 51 | | 0,0 |
| 9-12-23 | 1, | 32, | 12, | 0, | 3, | 2 539 | | 89 | | 4 | | 0,0 |
| 10-12-23 | 6, | 37, | 2, | 0, | 3, | 2 494 | | 86 | | 8 | | 0,0 |
| 11-12-23 | 3, | 35, | 8, | 0, | 2, | 2 642 | | 111 | | 14 | | 0,0 |
| 12-12-23 | 12, | 35, | 0, | 0, | 1, | 2 744 | | 102 | | 65 | | 0,0 |
| 13-12-23 | 48, | 0, | 0, | 0, | 0, | 0 | N | 0 | N | 0 | N | 0,0 |
| 14-12-23 | 32, | 11, | 3, | 0, | 2, | 2 903 | | 72 | | 3 | | 5,8 |
| 15-12-23 | 12, | 31, | 3, | 0, | 2, | 3 245 | | 149 | | 121 | | 1,3 |
| 16-12-23 | 6, | 37, | 1, | 0, | 4, | 3 151 | | 170 | | 120 | | 0,0 |
| 17-12-23 | 0, | 48, | 0, | 0, | 0, | 3 087 | | 189 | | 105 | | 0,0 |
| 18-12-23 | 25, | 22, | 0, | 0, | 1, | 3 072 | | 202 | | 113 | | 0,0 |
| 19-12-23 | 48, | 0, | 0, | 0, | 0, | 0 | N | 0 | N | 0 | N | 0,0 |
| 20-12-23 | 27, | 15, | 4, | 0, | 2, | 3 100 | | 183 | | 7 | | 0,4 |
| 21-12-23 | 4, | 39, | 4, | 0, | 1, | 3 055 | | 122 | | 97 | | 0,0 |
| 22-12-23 | 4, | 39, | 2, | 0, | 3, | 3 193 | | 140 | | 174 | | 0,0 |
| 23-12-23 | 6, | 39, | 1, | 0, | 2, | 3 091 | | 157 | | 152 | | 0,0 |
| 24-12-23 | 1, | 45, | 1, | 0, | 1, | 3 178 | | 151 | | 187 | | 0,0 |
| 25-12-23 | 0, | 48, | 0, | 0, | 0, | 2 868 | | 175 | | 187 | | 0,0 |
| 26-12-23 | 14, | 33, | 0, | 0, | 1, | 2 988 | | 167 | | 187 | | 0,0 |
| 27-12-23 | 32, | 13, | 3, | 0, | 0, | 4 000 | | 160 | | 180 | | 0,0 |
| 28-12-23 | 7, | 38, | 2, | 0, | 1, | 3 382 | | 156 | | 227 | | 0,0 |
| 29-12-23 | 0, | 48, | 0, | 0, | 0, | 3 221 | | 157 | | 328 | | 0,0 |
| 30-12-23 | 0, | 46, | 1, | 0, | 1, | 3 140 | | 149 | | 257 | | 0,0 |
| 31-12-23 | 8, | 36, | 2, | 0, | 2, | 3 113 | | 137 | | 155 | | 0,0 |
| SUMA | 609, | 788, | 56, | 0, | 35, | | | | | | | |

| Označenie PDH | |
|---------------|----------------------|
| F | neplatná PDH |
| N | nevyhodnotená PDH |
| žiadne | platná, PDH ≤ EL + I |
| G | platná, PDH > EL + I |

Mesačný protokol emisných hodnôt pre SP2 za : 12.2023

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: Spekáč páš SP2

| Spekáč páš | | | | | |
|--|-----------|------------------------------------|----------------------|----------------------|----------------------|
| ZL | PPH 30min | CO | NO _x | SO ₂ | TZL |
| Jednotky pre PDH, PMH, EL | | [mg/m ³ _{nr}] | [mg/m ³] | [mg/m ³] | [mg/m ³] |
| EL - Emisný limit | | 6 000 | 400 | 495 | 15 |
| I - Interval spoľahlivosti [% EL] | | 10 | 20 | 20 | 30 |
| N PPH ≤ 1,2.EL+I / >1,2.EL+I / > 2.EL + I | | 817/0/0 | 817/0/0 | 817/0/0 | 817/0/0 |
| % PPH ≤ 1.2 EL+ I | | 100,0 | 100,0 | 100,0 | 100,0 |
| N PPH F / %PPH F (nepl.) | | 0/0,0 | 0/0,0 | 0/0,0 | 0/0,0 |
| N PPH Valid / N PPH E (náhr.) | | 817/31 | 817/31 | 817/31 | 817/23 |
| N PDH ≤ EL + I / PDH > EL + I | | 23/0 | 23/0 | 23/0 | 23/0 |
| N PDH Valid / N PDH F / N PDH N | | 23/0/8 | 23/0/8 | 23/0/8 | 23/0/8 |
| c - priem. hm. koncent. ZL ≤ EL [mg/m ³ _{ns}] | | 2 960,6 | 101,3 | 38,7 | 2,9 |
| množstvo ZL ≤ EL [kg] | | 643 803,4 | 22 021,4 | 8 407,0 | 630,7 |
| Q Spalin ≤ EL [tis. Nm ³] | | 217 459,6 | 217 459,6 | 217 459,6 | 217 459,6 |
| c - priem. hm. koncent. ZL > EL [mg/m ³ _{ns}] | | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL > EL [kg] | | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin > EL [tis. Nm ³] | | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL (N PDH F > 10, nezist. údaje) [kg] | | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin (N PDH F > 10, nezist. údaje) [tis. Nm ³] | | 0,0 | 0,0 | 0,0 | 0,0 |

| Počet hodín za mesiac - ustálený chod : | | | | | | PDH - priemerné denné hodnoty | | | |
|---|------|------|------|-----|------|------------------------------------|----------------------|----------------------|----------------------|
| Stav: | Bez | Ust | Náb | ZmQ | Odst | CO | NO _x | SO ₂ | TZL |
| Deň | - | "" | N | Q | Z | [mg/m ³ _{nr}] | [mg/m ³] | [mg/m ³] | [mg/m ³] |
| 1-12-23 | 4, | 29, | 11, | 0, | 4, | 2 818 | 105 | 7 | 2,7 |
| 2-12-23 | 0, | 46, | 0, | 0, | 2, | 2 638 | 101 | 7 | 2,9 |
| 3-12-23 | 2, | 34, | 7, | 0, | 5, | 2 579 | 92 | 11 | 3,1 |
| 4-12-23 | 2, | 38, | 5, | 0, | 3, | 2 870 | 82 | 8 | 2,9 |
| 5-12-23 | 0, | 45, | 2, | 0, | 1, | 2 981 | 88 | 55 | 3,3 |
| 6-12-23 | 0, | 43, | 3, | 0, | 2, | 2 499 | 100 | 6 | 3,2 |
| 7-12-23 | 13, | 31, | 2, | 0, | 2, | 2 385 | 96 | 11 | 3,3 |
| 8-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 9-12-23 | 26, | 6, | 13, | 0, | 3, | 2 472 | 108 | 0 | 3,3 |
| 10-12-23 | 8, | 29, | 8, | 0, | 3, | 2 364 | 86 | 1 | 2,8 |
| 11-12-23 | 46, | 0, | 2, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 12-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 13-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 14-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 15-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 16-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 17-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 18-12-23 | 24, | 18, | 5, | 0, | 1, | 2 596 | 118 | 11 | 2,9 |
| 19-12-23 | 3, | 34, | 7, | 0, | 4, | 2 811 | 112 | 20 | 3,3 |
| 20-12-23 | 22, | 20, | 4, | 0, | 2, | 2 675 | 80 | 15 | 2,8 |
| 21-12-23 | 4, | 33, | 8, | 0, | 3, | 2 695 | 104 | 10 | 2,6 |
| 22-12-23 | 6, | 33, | 5, | 0, | 4, | 2 908 | 119 | 62 | 2,7 |
| 23-12-23 | 0, | 48, | 0, | 0, | 0, | 2 856 | 123 | 33 | 2,6 |
| 24-12-23 | 1, | 44, | 2, | 0, | 1, | 3 054 | 129 | 66 | 2,7 |
| 25-12-23 | 0, | 48, | 0, | 0, | 0, | 2 816 | 130 | 80 | 2,7 |
| 26-12-23 | 11, | 34, | 2, | 0, | 1, | 3 069 | 131 | 98 | 2,9 |
| 27-12-23 | 0, | 44, | 2, | 0, | 2, | 3 847 | 133 | 31 | 2,7 |
| 28-12-23 | 12, | 31, | 3, | 0, | 2, | 3 592 | 138 | 77 | 2,8 |
| 29-12-23 | 0, | 47, | 1, | 0, | 0, | 3 192 | 116 | 104 | 2,8 |
| 30-12-23 | 0, | 42, | 3, | 0, | 3, | 3 279 | 115 | 127 | 3,0 |
| 31-12-23 | 0, | 40, | 5, | 0, | 3, | 3 211 | 112 | 66 | 3,0 |
| SUMA | 520, | 817, | 100, | 0, | 51, | | | | |

| Označenie PDH | |
|---------------|----------------------|
| F | neplatná PDH |
| N | nevyhodnotená PDH |
| žiadne | platná, PDH ≤ EL + I |
| G | platná, PDH > EL + I |

Mesačný protokol emisných hodnôt pre SP3 za : 12.2023

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: Spekáč páš SP3

| Spekáč páš | | | | | |
|--|-----------|------------------------------------|----------------------|----------------------|----------------------|
| ZL | PPH 30min | CO | NO _x | SO ₂ | TZL |
| Jednotky pre PDH, PMH, EL | | [mg/m ³ _{nr}] | [mg/m ³] | [mg/m ³] | [mg/m ³] |
| EL - Emisný limit | | 6 000 | 400 | 495 | 15 |
| I - Interval spoľahlivosti [% EL] | | 10 | 20 | 20 | 30 |
| N PPH ≤ 1,2.EL+I / >1,2.EL+I / > 2.EL + I | | 641/0/0 | 641/0/0 | 641/0/0 | 641/0/0 |
| % PPH ≤ 1.2 EL+ I | | 100,0 | 100,0 | 100,0 | 100,0 |
| N PPH F / %PPH F (nepł.) | | 0/0,0 | 0/0,0 | 0/0,0 | 0/0,0 |
| N PPH Valid / N PPH E (náhr.) | | 641/25 | 641/25 | 641/25 | 641/40 |
| N PDH ≤ EL + I / PDH > EL + I | | 18/0 | 18/0 | 18/0 | 18/0 |
| N PDH Valid / N PDH F / N PDH N | | 18/0/13 | 18/0/13 | 18/0/13 | 18/0/13 |
| c - priem. hm. koncent. ZL ≤ EL [mg/m ³ _{ns}] | | 3 956,9 | 136,6 | 109,6 | 1,1 |
| množstvo ZL ≤ EL [kg] | | 531 836,8 | 18 366,3 | 14 726,9 | 146,7 |
| Q Spalin ≤ EL [tis. Nm ³] | | 134 408,4 | 134 408,4 | 134 408,4 | 134 408,4 |
| c - priem. hm. koncent. ZL > EL [mg/m ³ _{ns}] | | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL > EL [kg] | | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin > EL [tis. Nm ³] | | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL (N PDH F > 10, nezist. údaje) [kg] | | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalin (N PDH F > 10, nezist. údaje) [tis. Nm ³] | | 0,0 | 0,0 | 0,0 | 0,0 |

| Počet hodín za mesiac - ustálený chod : | | | | | | PDH - priemerné denné hodnoty | | | |
|---|------|------|-----|-----|------|------------------------------------|----------------------|----------------------|----------------------|
| Stav: | Bez | Ust | Náb | ZmQ | Odst | CO | NO _x | SO ₂ | TZL |
| Deň | - | ''' | N | Q | Z | [mg/m ³ _{nr}] | [mg/m ³] | [mg/m ³] | [mg/m ³] |
| 1-12-23 | 4, | 36, | 4, | 0, | 4, | 2 568, | 135, | 66, | 1,0, |
| 2-12-23 | 0, | 46, | 1, | 0, | 1, | 2 616, | 150, | 62, | 1,1, |
| 3-12-23 | 0, | 40, | 5, | 0, | 3, | 2 565, | 157, | 48, | 1,1, |
| 4-12-23 | 3, | 39, | 3, | 0, | 3, | 3 134, | 143, | 93, | 1,3, |
| 5-12-23 | 3, | 43, | 1, | 0, | 1, | 2 954, | 124, | 200, | 1,3, |
| 6-12-23 | 0, | 48, | 0, | 0, | 0, | 2 445, | 140, | 67, | 1,1, |
| 7-12-23 | 0, | 48, | 0, | 0, | 0, | 2 488, | 154, | 58, | 1,2, |
| 8-12-23 | 1, | 44, | 1, | 0, | 2, | 2 596, | 156, | 44, | 1,1, |
| 9-12-23 | 1, | 41, | 4, | 0, | 2, | 2 596, | 132, | 46, | 1,1, |
| 10-12-23 | 6, | 38, | 3, | 0, | 1, | 2 538, | 144, | 49, | 1,1, |
| 11-12-23 | 47, | 0, | 1, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 12-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 13-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 14-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 15-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 16-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 17-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 18-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 19-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 20-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 21-12-23 | 29, | 17, | 2, | 0, | 0, | 3 033, | 97, | 118, | 1,5, |
| 22-12-23 | 43, | 4, | 0, | 0, | 1, | 2 712, | 127, | 191, | 1,0, |
| 23-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 24-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 25-12-23 | 48, | 0, | 0, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 26-12-23 | 45, | 1, | 2, | 0, | 0, | 2 529, | 78, | 21, | 0,8, |
| 27-12-23 | 0, | 46, | 1, | 0, | 1, | 4 119, | 169, | 181, | 0,9, |
| 28-12-23 | 0, | 44, | 2, | 0, | 2, | 3 583, | 157, | 179, | 1,0, |
| 29-12-23 | 15, | 31, | 1, | 0, | 1, | 3 295, | 130, | 232, | 1,0, |
| 30-12-23 | 13, | 32, | 1, | 0, | 2, | 3 314, | 134, | 280, | 0,9, |
| 31-12-23 | 2, | 43, | 2, | 0, | 1, | 3 349, | 133, | 163, | 1,0, |
| SUMA | 788, | 641, | 34, | 0, | 25, | | | | |

| Označenie PDH | |
|---------------|----------------------|
| F | neplatná PDH |
| N | nevýhodnotená PDH |
| žiadne | platná, PDH ≤ EL + I |
| G | platná, PDH > EL + I |

Mesačný protokol emisných hodnôt pre SP4 za : 12.2023

Prevádzkovateľ: U. S. Steel Košice, s.r.o.

Meracie miesto: Spekáč páš SP4

| Spekáč páš | | | | | |
|--|-----------|------------------------------------|----------------------|----------------------|----------------------|
| ZL | PPH 30min | CO | NO _x | SO ₂ | TZL |
| Jednotky pre PDH, PMH, EL | | [mg/m ³ _{nr}] | [mg/m ³] | [mg/m ³] | [mg/m ³] |
| EL - Emisný limit | | 6 000 | 400 | 495 | 15 |
| I - Interval spoľahlivosti [% EL] | | 10 | 20 | 20 | 30 |
| N PPH ≤ 1,2.EL+I / >1,2.EL+I / > 2.EL + I | | 1 166/0/0 | 1 166/0/0 | 1 166/0/0 | 1 169/0/0 |
| % PPH ≤ 1.2 EL + I | | 100,0 | 100,0 | 100,0 | 100,0 |
| N PPH F / %PPH F (nepl.) | | 3/0,3 | 3/0,3 | 3/0,3 | 0/0,0 |
| N PPH Valid / N PPH E (náhr.) | | 1 166/48 | 1 166/48 | 1 166/48 | 1 169/73 |
| N PDH ≤ EL + I / PDH > EL + I | | 30/0 | 30/0 | 30/0 | 30/0 |
| N PDH Valid / N PDH F / N PDH N | | 30/0/1 | 30/0/1 | 30/0/1 | 30/0/1 |
| c - priem. hm. koncent. ZL ≤ EL [mg/m ³ _{ns}] | | 4 587,8 | 157,5 | 110,4 | 0,3 |
| množstvo ZL ≤ EL [kg] | | 1 191 487,6 | 40 897,8 | 28 661,6 | 66,6 |
| Q Spalín ≤ EL [tis. Nm ³] | | 259 706,5 | 259 706,5 | 259 706,5 | 259 706,5 |
| c - priem. hm. koncent. ZL > EL [mg/m ³ _{ns}] | | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL > EL [kg] | | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalín > EL [tis. Nm ³] | | 0,0 | 0,0 | 0,0 | 0,0 |
| množstvo ZL (N PDH F > 10, nezist. údaje) [kg] | | 0,0 | 0,0 | 0,0 | 0,0 |
| Q Spalín (N PDH F > 10, nezist. údaje) [tis. Nm ³] | | 0,0 | 0,0 | 0,0 | 0,0 |

| Počet hodín za mesiac - ustálený chod : | | | | | | PDH - priemerné denné hodnoty | | | |
|---|------|-------|-----|-----|------|------------------------------------|----------------------|----------------------|----------------------|
| Stav: | Bez | Ust | Náb | ZmQ | Odst | CO | NO _x | SO ₂ | TZL |
| Deň | - | ''' | N | Q | Z | [mg/m ³ _{nr}] | [mg/m ³] | [mg/m ³] | [mg/m ³] |
| 1-12-23 | 3, | 43, | 1, | 0, | 1, | 3 332 | 149 | 114 | 0,3 |
| 2-12-23 | 0, | 47, | 0, | 0, | 1, | 3 307 | 148 | 163 | 0,3 |
| 3-12-23 | 1, | 44, | 1, | 0, | 2, | 3 005 | 156 | 116 | 0,3 |
| 4-12-23 | 3, | 38, | 2, | 0, | 5, | 3 180 | 140 | 99 | 0,3 |
| 5-12-23 | 2, | 44, | 1, | 0, | 1, | 3 410 | 143 | 148 | 0,3 |
| 6-12-23 | 0, | 47, | 0, | 0, | 1, | 3 030 | 169 | 117 | 0,3 |
| 7-12-23 | 2, | 41, | 2, | 0, | 3, | 3 039 | 188 | 77 | 0,3 |
| 8-12-23 | 3, | 43, | 1, | 0, | 1, | 3 126 | 188 | 54 | 0,3 |
| 9-12-23 | 2, | 40, | 1, | 0, | 5, | 2 991 | 146 | 44 | 0,3 |
| 10-12-23 | 3, | 41, | 1, | 0, | 3, | 2 892 | 140 | 70 | 0,3 |
| 11-12-23 | 1, | 45, | 1, | 0, | 1, | 2 885 | 128 | 86 | 0,3 |
| 12-12-23 | 32, | 13, | 1, | 0, | 2, | 3 037 | 120 | 75 | 0,3 |
| 13-12-23 | 47, | 0, | 1, | 0, | 0, | 0 N | 0 N | 0 N | 0,0 N |
| 14-12-23 | 10, | 26, | 0, | 0, | 12, | 3 534 | 77 | 7 | 0,2 |
| 15-12-23 | 9, | 36, | 2, | 0, | 1, | 2 839 | 139 | 83 | 0,2 |
| 16-12-23 | 6, | 39, | 1, | 0, | 2, | 2 872 | 175 | 93 | 0,2 |
| 17-12-23 | 0, | 48, | 0, | 0, | 0, | 2 785 | 178 | 49 | 0,3 |
| 18-12-23 | 0, | 47, | 0, | 0, | 1, | 2 791 | 179 | 95 | 0,3 |
| 19-12-23 | 3, | 42, | 1, | 0, | 2, | 2 761 | 178 | 82 | 0,3 |
| 20-12-23 | 0, | 48, | 0, | 0, | 0, | 2 624 | 182 | 24 | 0,3 |
| 21-12-23 | 9, | 35, | 2, | 0, | 2, | 2 923 | 174 | 63 | 0,3 |
| 22-12-23 | 16, | 28, | 2, | 0, | 2, | 3 093 | 176 | 95 | 0,3 |
| 23-12-23 | 12, | 32, | 2, | 0, | 2, | 3 151 | 179 | 76 | 0,3 |
| 24-12-23 | 20, | 26, | 1, | 0, | 1, | 3 222 | 190 | 129 | 0,3 |
| 25-12-23 | 0, | 48, | 0, | 0, | 0, | 2 975 | 197 | 163 | 0,3 |
| 26-12-23 | 14, | 33, | 0, | 0, | 1, | 3 050 | 194 | 186 | 0,3 |
| 27-12-23 | 17, | 29, | 1, | 0, | 1, | 4 151 | 192 | 143 | 0,2 |
| 28-12-23 | 0, | 45, | 0, | 0, | 3, | 3 541 | 189 | 297 | 0,3 |
| 29-12-23 | 8, | 38, | 1, | 0, | 1, | 3 328 | 170 | 244 | 0,3 |
| 30-12-23 | 7, | 35, | 2, | 0, | 4, | 3 482 | 164 | 274 | 0,3 |
| 31-12-23 | 0, | 48, | 0, | 0, | 0, | 3 422 | 160 | 251 | 0,3 |
| SUMA | 230, | 1169, | 28, | 0, | 61, | | | | |

| Označenie PDH | |
|---------------|----------------------|
| F | neplatná PDH |
| N | nevyhodnotená PDH |
| žiadne | platná, PDH ≤ EL + I |
| G | platná, PDH > EL + I |