



CLEVELAND-CLIFFS INC.
Cleveland-Cliffs Burns Harbor LLC
250 West U.S. Highway 12, Burns Harbor, IN 46304
P 219.787.2120 clevelandcliffs.com

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

Recieved
JUN 24 2024
State of Indiana

June 20, 2024

Subject: 2023 Emissions Statement
Cleveland-Cliffs Burns Harbor LLC

To whom it may concern:

Enclosed is the completed 2023 Air Emissions Statement Certification for Cleveland-Cliffs Burns Harbor LLC. Furthermore Cleveland-Cliffs Burns Harbor LLC has updated the IDEM online EMITS reporting software with the emission data related to reporting year 2023.

If you have any questions or comments, please contact me at (219)787-4961.

Regards,

A handwritten signature in cursive script that reads "Thomas Maicher".

Thomas Maicher
Area Manager, Environmental

Enclosure

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION**

*Recieved
JUN 24 2024
State of Indiana*

Source Name: Cleveland-Cliffs Burns Harbor LLC (Plant ID 127-40675-00001)
Source Location: U.S. Highway 12, Burns Harbor, IN 46304
Mailing Address: 250 West U.S. Highway 12, Burns Harbor, IN 46304-9745
Part 70 Permit No.: T127-40675-00001

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify)
- Report (specify) **Cleveland-Cliffs Burns Harbor LLC Title V – 2023 Annual EMITS Report**
- Notification (specify)
- Affidavit (specify)
- Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature: *Mark Dutler*

Printed Name: Mark Dutler

Title/Position: Senior General Manager Burns Harbor

Phone: (219) 787-3081

Date: *6/20/24*

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Facility Emissions Overview		
Pollutant	Pollutant Description	Emissions (Tons)
NH3	Ammonia	28.9385
CO	Carbon Monoxide	62544.3584
7439921	Lead	2.0173
NOX	Nitrogen Oxides	7856.5882
PM-CON	Primary PM Condensable Only (All Less Than 1 Micron)	758.1151
PM10-FIL	Primary PM10, Filterable Portion Only	2341.6196
PM25-FIL	Primary PM2.5, Filterable Portion Only	2192.4742
SO2	Sulfur Dioxide	10685.6935
VOC	Volatile Organic Compounds	458.5151

Group ID: 001		Group Description: SHOPS/RIPARIAN/ROADS		
Percent Quarterly Throughput				
Winter: 26	Spring: 25	Summer: 25	Fall: 24	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 02		Process Description: SLAB HAUL ROADS		
SCC:	30301569	Stack:	148	
	Primary Metal Production	Description:	SLAB HAUL ROADS FUG	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Unpaved Roads: Heavy Duty Vehicles	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	4921344 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.01449	85.5	5.1700
PM25-FIL	Site-Specific Emission Factor	0.01449	85.5	5.1700

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 03		Process Description: REGULATED PAVED ROADS		
SCC:	30301566	Stack:	149	
	Primary Metal Production	Description:	REGULATED PAVED ROADS FUG	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Paved Roads: All Vehicle Types	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	5236666.76 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.52737	30.6	958.2963
PM25-FIL	Site-Specific Emission Factor	0.52737	30.6	958.2963
Process ID: 04		Process Description: REGULATED UNPAVED ROADS		
SCC:	30301569	Stack:	150	
	Primary Metal Production	Description:	REG UNPAVED ROADS FUG	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Unpaved Roads: Heavy Duty Vehicles	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	5236666.76 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.38632	48.6	519.9185
PM25-FIL	Site-Specific Emission Factor	0.38632	48.6	519.9185

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: UNREGULATED ROADS		
SCC:	30301569	Stack:	169	
	Primary Metal Production	Description:	ROADWAY FUGITIVES	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Unpaved Roads: Heavy Duty Vehicles	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	0 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0	0	0
PM25-FIL	Site-Specific Emission Factor	0	0	0
Process ID: 06		Process Description: #1 ROLL SHOP N. BAGHOUSE		
SCC:	30900202	Stack:	1	
	Fabricated Metal Products	Description:	#1 ROLL SHOP N BGHSE STK	
	Abrasive Blasting of Metal Parts	Stack Type:	Vertical	
	Sand Abrasive	Height:	28	
Heat Content:	0	Diameter:	2.25	
Sulfur Content:	0	Temperature:	80	
Ash Content:	0	Velocity:	21	
Throughput:	0 Hour	Gas Flow:	5010	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	2.04611	96.53	0
PM25-FIL	Site-Specific Emission Factor	2.04611	96.53	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 07		Process Description: #1 ROLL SHOP S. BAGHOUSE		
SCC:	30900202	Stack:	2	
	Fabricated Metal Products	Description:	#1 ROLL SHOP S BGHSE STK	
	Abrasive Blasting of Metal Parts	Stack Type:	Vertical	
	Sand Abrasive	Height:	28	
Heat Content:	0	Diameter:	2.25	
Sulfur Content:	0	Temperature:	80	
Ash Content:	0	Velocity:	21	
Throughput:	0 Hour	Gas Flow:	5010	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	2.04611	96.53	0
PM25-FIL	Site-Specific Emission Factor	2.04611	96.53	0
Process ID: 08		Process Description: #2 ROLL SHOP BAGHOUSE		
SCC:	30900202	Stack:	3	
	Fabricated Metal Products	Description:	#2 ROLL SHOP BAGHOUSE STK	
	Abrasive Blasting of Metal Parts	Stack Type:	Vertical	
	Sand Abrasive	Height:	49	
Heat Content:	0	Diameter:	2.25	
Sulfur Content:	0	Temperature:	80	
Ash Content:	0	Velocity:	21	
Throughput:	12 Hour	Gas Flow:	5010	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	2.04611	96.53	0.0004
PM25-FIL	Site-Specific Emission Factor	2.04611	96.53	0.0004

Facility Emission Detail

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Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 09		Process Description: MILL SCALE PILES AREA		
SCC:	30301515	Stack:	156	
	Primary Metal Production	Description:	MILL SCALE PILES AREA FUG	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Blast Furnace: Raw Materials Handling/Transfer/Storage	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	3570138.45 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00014	0	0.2499
PM25-FIL	Site-Specific Emission Factor	4E-05	0	0.0714
Process ID: 10		Process Description: CLEAN FILL STORAGE		
SCC:	30301515	Stack:	155	
	Primary Metal Production	Description:	CLEAN FILL STORAGE FUG	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Blast Furnace: Raw Materials Handling/Transfer/Storage	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	375000 Tons	Gas Flow:	0	
Material:	Asphalt	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00029	0	0.0544
PM25-FIL	Site-Specific Emission Factor	9E-05	0	0.0169

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 11		Process Description: BOF SLURRY LANDFARMING		
SCC:	30301515	Stack:	154	
	Primary Metal Production	Description:	BOF SLURRY LANDFARM FUG	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Blast Furnace: Raw Materials Handling/Transfer/Storage	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	65633.98 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.01222	0	0.4010
PM25-FIL	Site-Specific Emission Factor	0.00359	0	0.1178

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 002		Group Description:POWER STATION BOILER #07		
Percent Quarterly Throughput				
Winter: 30	Spring: 25	Summer: 19	Fall: 26	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: NATURAL GAS		
SCC:	10200601	Stack:	4	
	Industrial	Description:	POWER STA BOILER #7 STK	
	Natural Gas	Stack Type:	Vertical	
	> 100 Million Btu/hr	Height:	223	
Heat Content:	0	Diameter:	10.5	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	47.30	
Throughput:	956.222 Million Cubic Feet	Gas Flow:	245743	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	40.1613
NH3	Site-Specific Emission Factor	3.2	0	1.5300
NOX	Site-Specific Emission Factor	170	0	81.2789
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.9084
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.9084
PM-CON	Site-Specific Emission Factor	5.7	0	2.7252
SO2	Site-Specific Emission Factor	0.64	0	0.3060
VOC	Site-Specific Emission Factor	5.5	0	2.6296
7439921	Site-Specific Emission Factor	0.0005	0	0.0002

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12, Burns Harbor, 46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	10200707	Stack:	4	
	Industrial	Description:	POWER STA BOILER #7 STK	
	Process Gas	Stack Type:	Vertical	
	Coke Oven Gas	Height:	223	
Heat Content:	0	Diameter:	10.5	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	47.30	
Throughput:	2354.7684 Million Cubic Feet	Gas Flow:	245743	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	21.6639
NOX	Site-Specific Emission Factor	80	0	94.1907
PM10-FIL	Site-Specific Emission Factor	4.35	0	5.1216
PM25-FIL	Site-Specific Emission Factor	3.219	0	3.7900
PM-CON	Site-Specific Emission Factor	5.7	0	6.7111
SO2	Site-Specific Emission Factor	660.52	0	777.6858
VOC	Site-Specific Emission Factor	1.2	0	1.4129
Process ID: 03		Process Description: BLAST FURNACE GAS		
SCC:	10200704	Stack:	4	
	Industrial	Description:	POWER STA BOILER #7 STK	
	Process Gas	Stack Type:	Vertical	
	Blast Furnace Gas	Height:	223	
Heat Content:	0	Diameter:	10.5	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	47.30	
Throughput:	22266.3423 Million Cubic Feet	Gas Flow:	245743	
Material:	Process Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	13.7	0	152.5244
NOX	Site-Specific Emission Factor	0.9	0	10.0199
PM10-FIL	Site-Specific Emission Factor	2.9	0	32.2862
PM25-FIL	Site-Specific Emission Factor	2.9	0	32.2862
PM-CON	Site-Specific Emission Factor	5.7	0	63.4591
SO2	Site-Specific Emission Factor	13.2	0	146.9579
VOC	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 003		Group Description: POWER STATION BOILER #08		
Percent Quarterly Throughput				
Winter: 29	Spring: 0	Summer: 0	Fall: 71	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: NATURAL GAS		
SCC:	10200601	Stack:	5	
	Industrial	Description:	POWER STA BOILER #8 STK	
	Natural Gas	Stack Type:	Vertical	
	> 100 Million Btu/hr	Height:	223	
Heat Content:	0	Diameter:	11.0699996948242	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	46.10	
Throughput:	340.6045 Million Cubic Feet	Gas Flow:	266218	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	14.3054
NH3	Site-Specific Emission Factor	3.2	0	0.5450
NOX	Site-Specific Emission Factor	170	0	28.9514
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.3236
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.3236
PM-CON	Site-Specific Emission Factor	5.7	0	0.9707
SO2	Site-Specific Emission Factor	0.64	0	0.1090
VOC	Site-Specific Emission Factor	5.5	0	0.9367
7439921	Site-Specific Emission Factor	0.0005	0	0.0001

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	10200707	Stack:	5	
	Industrial	Description:	POWER STA BOILER #8 STK	
	Process Gas	Stack Type:	Vertical	
	Coke Oven Gas	Height:	223	
Heat Content:	0	Diameter:	11.0699996948242	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	46.10	
Throughput:	728.5851 Million Cubic Feet	Gas Flow:	266218	
Material:	Process Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	6.7030
NOX	Site-Specific Emission Factor	80	0	29.1434
PM10-FIL	Site-Specific Emission Factor	4.35	0	1.5847
PM25-FIL	Site-Specific Emission Factor	3.219	0	1.1727
PM-CON	Site-Specific Emission Factor	5.7	0	2.0765
SO2	Site-Specific Emission Factor	660.52	0	240.6225
VOC	Site-Specific Emission Factor	1.2	0	0.4372
Process ID: 03		Process Description: BLAST FURNACE GAS		
SCC:	10200704	Stack:	5	
	Industrial	Description:	POWER STA BOILER #8 STK	
	Process Gas	Stack Type:	Vertical	
	Blast Furnace Gas	Height:	223	
Heat Content:	0	Diameter:	11.0699996948242	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	46.10	
Throughput:	4591.1482 Million Cubic Feet	Gas Flow:	266218	
Material:	Process Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	13.7	0	31.4494
NOX	Site-Specific Emission Factor	0.9	0	2.0660
PM10-FIL	Site-Specific Emission Factor	2.9	0	6.6572
PM25-FIL	Site-Specific Emission Factor	2.9	0	6.6572
PM-CON	Site-Specific Emission Factor	5.7	0	13.0848
SO2	Site-Specific Emission Factor	13.2	0	30.3016
VOC	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: #6 FUEL OIL		
SCC:	10200401	Stack:	5	
	Industrial	Description:	POWER STA BOILER #8 STK	
	Residual Oil	Stack Type:	Vertical	
	Grade 6 Oil	Height:	223	
Heat Content:	0	Diameter:	11.0699996948242	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	46.10	
Throughput:	0 1000 Gallons	Gas Flow:	266218	
Material:	Residual Oil (No. 6)	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	5	0	0
NH3	Site-Specific Emission Factor	0.8	0	0
NOX	Site-Specific Emission Factor	4.7	0	0
PM10-FIL	Site-Specific Emission Factor	10.8	0	0
PM25-FIL	Site-Specific Emission Factor	7.035	0	0
PM-CON	Site-Specific Emission Factor	1.5	0	0
SO2	Site-Specific Emission Factor	157	0	0
VOC	Site-Specific Emission Factor	0.28	0	0
7439921	Site-Specific Emission Factor	0.0042	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 004		Group Description: POWER STATION BOILER #09		
Percent Quarterly Throughput				
Winter: 13		Spring: 32		Summer: 24
				Fall: 31
Days Per Week: 7		Weeks Per Year: 52		Hours Per Day: 24
				Hours Per Year: 8760
Process ID: 01		Process Description: NATURAL GAS		
SCC:	10200601	Stack:	6	
	Industrial	Description:	POWER STA BOILER #9 STK	
	Natural Gas	Stack Type:	Vertical	
	> 100 Million Btu/hr	Height:	223	
Heat Content:	0	Diameter:	11.5200004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	45.70	
Throughput:	694.8459 Million Cubic Feet	Gas Flow:	285800	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	29.1835
NH3	Site-Specific Emission Factor	3.2	0	1.1118
NOX	Site-Specific Emission Factor	170	0	59.0619
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.6601
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.6601
PM-CON	Site-Specific Emission Factor	5.7	0	1.9803
SO2	Site-Specific Emission Factor	0.64	0	0.2224
VOC	Site-Specific Emission Factor	5.5	0	1.9108
7439921	Site-Specific Emission Factor	0.0005	0	0.0002

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	10200707	Stack:	6	
	Industrial	Description:	POWER STA BOILER #9 STK	
	Process Gas	Stack Type:	Vertical	
	Coke Oven Gas	Height:	223	
Heat Content:	0	Diameter:	11.5200004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	45.70	
Throughput:	2268.0468 Million Cubic Feet	Gas Flow:	285800	
Material:	Process Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	20.8660
NOX	Site-Specific Emission Factor	80	0	90.7219
PM10-FIL	Site-Specific Emission Factor	4.35	0	4.9330
PM25-FIL	Site-Specific Emission Factor	3.219	0	3.6504
PM-CON	Site-Specific Emission Factor	5.7	0	6.4639
SO2	Site-Specific Emission Factor	660.52	0	749.0451
VOC	Site-Specific Emission Factor	1.2	0	1.3608
Process ID: 03		Process Description: BLAST FURNACE GAS		
SCC:	10200704	Stack:	6	
	Industrial	Description:	POWER STA BOILER #9 STK	
	Process Gas	Stack Type:	Vertical	
	Blast Furnace Gas	Height:	223	
Heat Content:	0	Diameter:	11.5200004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	45.70	
Throughput:	17074.2832 Million Cubic Feet	Gas Flow:	285800	
Material:	Process Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	13.7	0	116.9588
NOX	Site-Specific Emission Factor	0.9	0	7.6834
PM10-FIL	Site-Specific Emission Factor	2.9	0	24.7577
PM25-FIL	Site-Specific Emission Factor	2.9	0	24.7577
PM-CON	Site-Specific Emission Factor	5.7	0	48.6617
SO2	Site-Specific Emission Factor	13.2	0	112.6903
VOC	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: #6 FUEL OIL		
SCC:	10200401	Stack:	6	
	Industrial	Description:	POWER STA BOILER #9 STK	
	Residual Oil	Stack Type:	Vertical	
	Grade 6 Oil	Height:	223	
Heat Content:	0	Diameter:	11.5200004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	45.70	
Throughput:	0 1000 Gallons	Gas Flow:	285800	
Material:	Residual Oil (No. 6)	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	5	0	0
NH3	Site-Specific Emission Factor	0.8	0	0
NOX	Site-Specific Emission Factor	47	0	0
PM10-FIL	Site-Specific Emission Factor	10.8	0	0
PM25-FIL	Site-Specific Emission Factor	7.035	0	0
PM-CON	Site-Specific Emission Factor	1.5	0	0
SO2	Site-Specific Emission Factor	157	0	0
VOC	Site-Specific Emission Factor	0.28	0	0
7439921	Site-Specific Emission Factor	0.0042	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 005		Group Description:POWER STATION BOILER #10		
Percent Quarterly Throughput				
Winter: 22	Spring: 22	Summer: 24	Fall: 32	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: NATURAL GAS		
SCC:	10200601	Stack:	7	
	Industrial	Description:	POWER STA BOILER #10 STK	
	Natural Gas	Stack Type:	Vertical	
	> 100 Million Btu/hr	Height:	220	
Heat Content:	0	Diameter:	11.2700004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	43.60	
Throughput:	553.8606 Million Cubic Feet	Gas Flow:	260961	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	23.2621
NH3	Site-Specific Emission Factor	3.2	0	0.8862
NOX	Site-Specific Emission Factor	170	0	47.0781
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.5262
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.5262
PM-CON	Site-Specific Emission Factor	5.7	0	1.5785
SO2	Site-Specific Emission Factor	0.64	0	0.1772
VOC	Site-Specific Emission Factor	5.5	0	1.5231
7439921	Site-Specific Emission Factor	0.0005	0	0.0001

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	10200707	Stack:	7	
	Industrial	Description:	POWER STA BOILER #10 STK	
	Process Gas	Stack Type:	Vertical	
	Coke Oven Gas	Height:	220	
Heat Content:	0	Diameter:	11.2700004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	43.60	
Throughput:	2644.0467 Million Cubic Feet	Gas Flow:	260961	
Material:	Process Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	24.3252
NOX	Site-Specific Emission Factor	80	0	105.7619
PM10-FIL	Site-Specific Emission Factor	4.35	0	5.7508
PM25-FIL	Site-Specific Emission Factor	3.219	0	4.2556
PM-CON	Site-Specific Emission Factor	5.7	0	7.5355
SO2	Site-Specific Emission Factor	660.52	0	873.2229
VOC	Site-Specific Emission Factor	1.2	0	1.5864
Process ID: 03		Process Description: BLAST FURNACE GAS		
SCC:	10200704	Stack:	7	
	Industrial	Description:	POWER STA BOILER #10 STK	
	Process Gas	Stack Type:	Vertical	
	Blast Furnace Gas	Height:	220	
Heat Content:	0	Diameter:	11.2700004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	43.60	
Throughput:	19761.126 Million Cubic Feet	Gas Flow:	260961	
Material:	Process Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	13.7	0	135.3637
NOX	Site-Specific Emission Factor	0.9	0	8.8925
PM10-FIL	Site-Specific Emission Factor	2.9	0	28.6536
PM25-FIL	Site-Specific Emission Factor	2.9	0	28.6536
PM-CON	Site-Specific Emission Factor	5.7	0	56.3192
SO2	Site-Specific Emission Factor	13.2	0	130.4234
VOC	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: #6 FUEL OIL		
SCC:	10200401	Stack:	7	
	Industrial	Description:	POWER STA BOILER #10 STK	
	Residual Oil	Stack Type:	Vertical	
	Grade 6 Oil	Height:	220	
Heat Content:	0	Diameter:	11.2700004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	43.60	
Throughput:	0 1000 Gallons	Gas Flow:	260961	
Material:	Residual Oil (No. 6)	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	5	0	0
NH3	Site-Specific Emission Factor	0.8	0	0
NOX	Site-Specific Emission Factor	47	0	0
PM10-FIL	Site-Specific Emission Factor	10.8	0	0
PM25-FIL	Site-Specific Emission Factor	7.035	0	0
PM-CON	Site-Specific Emission Factor	1.5	0	0
SO2	Site-Specific Emission Factor	157	0	0
VOC	Site-Specific Emission Factor	0.28	0	0
7439921	Site-Specific Emission Factor	0.0042	0	0
Process ID: 06		Process Description: COAL TAR		
SCC:	10200401	Stack:	7	
	Industrial	Description:	POWER STA BOILER #10 STK	
	Residual Oil	Stack Type:	Vertical	
	Grade 6 Oil	Height:	220	
Heat Content:	0	Diameter:	11.2700004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	43.60	
Throughput:	0 Gallons	Gas Flow:	260961	
Material:	Coal Tar	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 006		Group Description: POWER STATION BOILER #11		
Percent Quarterly Throughput				
Winter: 30	Spring: 29	Summer: 25	Fall: 16	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: NATURAL GAS		
SCC:	10200601	Stack:	8	
	Industrial	Description:	POWER STA BOILER #11 STK	
	Natural Gas	Stack Type:	Vertical	
	> 100 Million Btu/hr	Height:	220	
Heat Content:	0	Diameter:	11.7700004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	36.60	
Throughput:	1005.2106 Million Cubic Feet	Gas Flow:	238932	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	42.2188
NH3	Site-Specific Emission Factor	3.2	0	1.6083
NOX	Site-Specific Emission Factor	170	0	85.4429
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.9550
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.9550
PM-CON	Site-Specific Emission Factor	5.7	0	2.8649
SO2	Site-Specific Emission Factor	0.64	0	0.3217
VOC	Site-Specific Emission Factor	5.5	0	2.7643
7439921	Site-Specific Emission Factor	0.0005	0	0.0003

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	10200707	Stack:	8	
	Industrial	Description:	POWER STA BOILER #11 STK	
	Process Gas	Stack Type:	Vertical	
	Coke Oven Gas	Height:	220	
Heat Content:	0	Diameter:	11.7700004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	36.60	
Throughput:	3113.6849 Million Cubic Feet	Gas Flow:	238932	
Material:	Process Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	Site-Specific Emission Factor	3.219	0	5.0115
PM-CON	Site-Specific Emission Factor	5.7	0	8.8740
SO2	Site-Specific Emission Factor	660.52	0	1028.3256
VOC	Site-Specific Emission Factor	1.2	0	1.8682
CO	Site-Specific Emission Factor	18.4	0	28.6459
NOX	Site-Specific Emission Factor	80	0	124.5474
PM10-FIL	Site-Specific Emission Factor	4.35	0	6.7723
Process ID: 03		Process Description: BLAST FURNACE GAS		
SCC:	10200704	Stack:	8	
	Industrial	Description:	POWER STA BOILER #11 STK	
	Process Gas	Stack Type:	Vertical	
	Blast Furnace Gas	Height:	220	
Heat Content:	0	Diameter:	11.7700004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	36.60	
Throughput:	10883.1379 Million Cubic Feet	Gas Flow:	238932	
Material:	Process Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	13.7	0	74.5495
NOX	Site-Specific Emission Factor	0.9	0	4.8974
PM10-FIL	Site-Specific Emission Factor	2.9	0	15.7805
PM25-FIL	Site-Specific Emission Factor	2.9	0	15.7805
PM-CON	Site-Specific Emission Factor	5.7	0	31.0169
SO2	Site-Specific Emission Factor	13.2	0	71.8287
VOC	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: #6 FUEL OIL		
SCC:	10200401	Stack:	8	
	Industrial	Description:	POWER STA BOILER #11 STK	
	Residual Oil	Stack Type:	Vertical	
	Grade 6 Oil	Height:	220	
Heat Content:	0	Diameter:	11.7700004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	36.60	
Throughput:	0 1000 Gallons	Gas Flow:	238932	
Material:	Residual Oil (No. 6)	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	5	0	0
NH3	Site-Specific Emission Factor	0.8	0	0
NOX	Site-Specific Emission Factor	47	0	0
PM10-FIL	Site-Specific Emission Factor	10.8	0	0
PM25-FIL	Site-Specific Emission Factor	7.035	0	0
PM-CON	Site-Specific Emission Factor	1.5	0	0
SO2	Site-Specific Emission Factor	157	0	0
VOC	Site-Specific Emission Factor	0.28	0	0
7439921	Site-Specific Emission Factor	0.0042	0	0
Process ID: 06		Process Description: COAL TAR		
SCC:	10200401	Stack:	8	
	Industrial	Description:	POWER STA BOILER #11 STK	
	Residual Oil	Stack Type:	Vertical	
	Grade 6 Oil	Height:	220	
Heat Content:	0	Diameter:	11.7700004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	36.60	
Throughput:	0 1000 Gallons	Gas Flow:	238932	
Material:	Coal Tar	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 007		Group Description: POWER STATION BOILER #12		
Percent Quarterly Throughput				
Winter: 26	Spring: 14	Summer: 37	Fall: 23	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: NATURAL GAS		
SCC:	10200601	Stack:	9	
	Industrial	Description:	POWER STA BOILER #12 STK	
	Natural Gas	Stack Type:	Vertical	
	> 100 Million Btu/hr	Height:	221	
Heat Content:	0	Diameter:	11.1599998474121	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	45.5	
Throughput:	1387.9532 Million Cubic Feet	Gas Flow:	267043	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	58.2940
NH3	Site-Specific Emission Factor	3.2	0	2.2207
NOX	Site-Specific Emission Factor	170	0	117.9760
PM10-FIL	Site-Specific Emission Factor	1.9	0	1.3186
PM25-FIL	Site-Specific Emission Factor	1.9	0	1.3186
PM-CON	Site-Specific Emission Factor	5.7	0	3.9557
SO2	Site-Specific Emission Factor	0.64	0	0.4441
VOC	Site-Specific Emission Factor	5.5	0	3.8169
7439921	Site-Specific Emission Factor	0.0005	0	0.0003

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	10200707	Stack:	9	
	Industrial	Description:	POWER STA BOILER #12 STK	
	Process Gas	Stack Type:	Vertical	
	Coke Oven Gas	Height:	221	
Heat Content:	0	Diameter:	11.1599998474121	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	45.5	
Throughput:	2702.8433 Million Cubic Feet	Gas Flow:	267043	
Material:	Process Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	24.8662
NOX	Site-Specific Emission Factor	80	0	108.1137
PM10-FIL	Site-Specific Emission Factor	4.35	0	5.8787
PM25-FIL	Site-Specific Emission Factor	3.219	0	4.3502
PM-CON	Site-Specific Emission Factor	5.7	0	7.7031
SO2	Site-Specific Emission Factor	660.52	0	892.6410
VOC	Site-Specific Emission Factor	1.2	0	1.6217
Process ID: 03		Process Description: BLAST FURNACE GAS		
SCC:	10200704	Stack:	9	
	Industrial	Description:	POWER STA BOILER #12 STK	
	Process Gas	Stack Type:	Vertical	
	Blast Furnace Gas	Height:	221	
Heat Content:	0	Diameter:	11.1599998474121	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	45.5	
Throughput:	5244.788 Million Cubic Feet	Gas Flow:	267043	
Material:	Process Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	13.7	0	35.9268
NOX	Site-Specific Emission Factor	0.9	0	2.3602
PM10-FIL	Site-Specific Emission Factor	2.9	0	7.6049
PM25-FIL	Site-Specific Emission Factor	2.9	0	7.6049
PM-CON	Site-Specific Emission Factor	5.7	0	14.9476
SO2	Site-Specific Emission Factor	13.2	0	34.6156
VOC	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: #6 FUEL OIL		
SCC:	10200401	Stack:	9	
	Industrial	Description:	POWER STA BOILER #12 STK	
	Residual Oil	Stack Type:	Vertical	
	Grade 6 Oil	Height:	221	
Heat Content:	0	Diameter:	11.1599998474121	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	45.5	
Throughput:	0 1000 Gallons	Gas Flow:	267043	
Material:	Residual Oil (No. 6)	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	5	0	0
NH3	Site-Specific Emission Factor	0.8	0	0
NOX	Site-Specific Emission Factor	47	0	0
PM10-FIL	Site-Specific Emission Factor	10.8	0	0
PM25-FIL	Site-Specific Emission Factor	7.035	0	0
PM-CON	Site-Specific Emission Factor	1.5	0	0
SO2	Site-Specific Emission Factor	157	0	0
VOC	Site-Specific Emission Factor	0.28	0	0
7439921	Site-Specific Emission Factor	0.0042	0	0
Process ID: 06		Process Description: COAL TAR		
SCC:	10200401	Stack:	9	
	Industrial	Description:	POWER STA BOILER #12 STK	
	Residual Oil	Stack Type:	Vertical	
	Grade 6 Oil	Height:	221	
Heat Content:	0	Diameter:	11.1599998474121	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	45.5	
Throughput:	0 1000 Gallons	Gas Flow:	267043	
Material:	Coal Tar	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 008		Group Description: COAL PILES & PREPARATION		
Percent Quarterly Throughput				
Winter: 23	Spring: 26	Summer: 26	Fall: 25	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: LOW VOL COAL PILES		
SCC:	30300316	Stack:	138	
	Primary Metal Production	Description:	LOW VOL COAL PILES FUG	
	By-product Coke Manufacturing	Stack Type:	Fugitive	
	Coal Storage Pile	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	579234.4 Tons	Gas Flow:	0	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00535	79.98	0.3102
PM25-FIL	Site-Specific Emission Factor	0.00189	79.98	0.1096
Process ID: 02		Process Description: MID & HI VOL COAL PILES		
SCC:	30300316	Stack:	160	
	Primary Metal Production	Description:	MID/HI VOL COAL PILES FUG	
	By-product Coke Manufacturing	Stack Type:	Fugitive	
	Coal Storage Pile	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1698615.05 Tons	Gas Flow:	0	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.0107	79.98	1.8193
PM25-FIL	Site-Specific Emission Factor	0.00378	79.98	0.6427

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 03		Process Description: COAL PREPARATION		
SCC:	30300307	Stack:	10	
	Primary Metal Production	Description:	JUNCTION J25 MON	
	By-product Coke Manufacturing	Stack Type:	Fugitive	
	Coal Crushing/Handling	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	2277830.15 Tons	Gas Flow:	0	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00331	96.99	0.1135
PM25-FIL	Site-Specific Emission Factor	0.00117	96.99	0.0401
Group ID: 009		Group Description: BATTERY #1		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 26	Fall: 24	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: #1 CHARGING		
SCC:	30300302	Stack:	141	
	Primary Metal Production	Description:	BAT 1 CHARGING FUG	
	By-product Coke Manufacturing	Stack Type:	Fugitive	
	Oven Charging	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1179911 Tons	Gas Flow:	0	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.0114	0	6.7255
NH3	Site-Specific Emission Factor	1E-05	0	0.0059
NOX	Site-Specific Emission Factor	0.00057	0	0.3363
PM10-FIL	Site-Specific Emission Factor	0.008	0	4.7196
PM25-FIL	Site-Specific Emission Factor	0.0064	0	3.7757
SO2	Site-Specific Emission Factor	0.00038	0	0.2242
VOC	Site-Specific Emission Factor	0.0475	0	28.0229
7647010	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: #1 LIDS		
SCC:	30300314	Stack:	140	
	Primary Metal Production	Description:	BAT 1 LIDS FUG	
	By-product Coke Manufacturing	Stack Type:	Fugitive	
	Topside Leaks	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1179911 Tons	Gas Flow:	0	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.00066	0	0.3894
NH3	Site-Specific Emission Factor	1E-05	0	0.0059
NOX	Site-Specific Emission Factor	1E-05	0	0.0059
PM10-FIL	Site-Specific Emission Factor	9E-05	0	0.0531
PM25-FIL	Site-Specific Emission Factor	8E-05	0	0.0472
SO2	Site-Specific Emission Factor	0.00011	0	0.0649
VOC	Site-Specific Emission Factor	0.00165	0	0.9734
7647010	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 03		Process Description: #1 OFFTAKE SYSTEM		
SCC:	30300314	Stack:	139	
	Primary Metal Production	Description:	BAT 1 OFFTAKE SYSTEM FUG	
	By-product Coke Manufacturing	Stack Type:	Fugitive	
	Topside Leaks	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1179911 Tons	Gas Flow:	0	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.00354	0	2.0884
NH3	Site-Specific Emission Factor	4E-05	0	0.0236
NOX	Site-Specific Emission Factor	6E-05	0	0.0354
PM10-FIL	Site-Specific Emission Factor	0.00047	0	0.2773
PM25-FIL	Site-Specific Emission Factor	0.00039	0	0.2301
SO2	Site-Specific Emission Factor	0.00059	0	0.3481
VOC	Site-Specific Emission Factor	0.00885	0	5.2211
7647010	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 04		Process Description: #1 DOORS		
SCC:	30300308	Stack:	142	
	Primary Metal Production	Description:	BAT 1 DOORS FUG	
	By-product Coke Manufacturing	Stack Type:	Fugitive	
	Oven/Door Leaks	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1179911 Tons	Gas Flow:	0	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.0024	0	1.4159
NH3	Site-Specific Emission Factor	0.0021	0	1.2389
NOX	Site-Specific Emission Factor	4E-05	0	0.0236
PM10-FIL	Site-Specific Emission Factor	0.00204	0	1.2035
PM25-FIL	Site-Specific Emission Factor	0.00169	0	0.9970
SO2	Site-Specific Emission Factor	0.00118	0	0.6961
VOC	Site-Specific Emission Factor	0.006	0	3.5397
7647010	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: #1 UNDERFIRE - NATURAL GAS		
SCC:	30300317	Stack:	13	
	Primary Metal Production	Description:	COKE UNDRFIRE BAT #1 STK	
	By-product Coke Manufacturing	Stack Type:	Vertical	
	Combustion Stack: Coke Oven Gas (COG)	Height:	252	
Heat Content:	0	Diameter:	12.3999996185303	
Sulfur Content:	0	Temperature:	525	
Ash Content:	0	Velocity:	23.5	
Throughput:	0 Million Cubic Feet	Gas Flow:	170276	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	0
NH3	Site-Specific Emission Factor	3.2	0	0
NOX	Site-Specific Emission Factor	280	0	0
PM10-FIL	Site-Specific Emission Factor	1.9	0	0
PM25-FIL	Site-Specific Emission Factor	1.9	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	0.64	0	0
VOC	Site-Specific Emission Factor	0.204	0	0
7439921	Site-Specific Emission Factor	0.0005	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 06		Process Description: #1 UNDERFIRE - COG		
SCC:	30300317	Stack:	13	
	Primary Metal Production	Description:	COKE UNDRFIRE BAT #1 STK	
	By-product Coke Manufacturing	Stack Type:	Vertical	
	Combustion Stack: Coke Oven Gas (COG)	Height:	252	
Heat Content:	0	Diameter:	12.3999996185303	
Sulfur Content:	0	Temperature:	525	
Ash Content:	0	Velocity:	23.5	
Throughput:	5242.6447 Million Cubic Feet	Gas Flow:	170276	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	48.2323
NOX	Site-Specific Emission Factor	1191	0	3121.9949
PM10-FIL	Site-Specific Emission Factor	4.35	0	11.4028
PM25-FIL	Site-Specific Emission Factor	3.219	0	8.4380
PM-CON	Site-Specific Emission Factor	5.7	0	14.9415
SO2	Site-Specific Emission Factor	660.52	0	1731.4358
VOC	Site-Specific Emission Factor	1.2	0	3.1456
Process ID: 07		Process Description: #1 UNDERFIRE - BF GAS		
SCC:	30300318	Stack:	13	
	Primary Metal Production	Description:	COKE UNDRFIRE BAT #1 STK	
	By-product Coke Manufacturing	Stack Type:	Vertical	
	Combustion Stack: Blast Furnace Gas (BFG)	Height:	252	
Heat Content:	0	Diameter:	12.3999996185303	
Sulfur Content:	0	Temperature:	525	
Ash Content:	0	Velocity:	23.5	
Throughput:	4135.1297 Million Cubic Feet	Gas Flow:	170276	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	13.7	0	28.3256
NOX	Site-Specific Emission Factor	197.78	0	408.9230
PM10-FIL	Site-Specific Emission Factor	2.9	0	5.9959
PM25-FIL	Site-Specific Emission Factor	2.9	0	5.9959
PM-CON	Site-Specific Emission Factor	5.7	0	11.7851
SO2	Site-Specific Emission Factor	13.2	0	27.2919

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 08		Process Description: #1 PUSHING	
SCC:	30300303	Stack:	11
	Primary Metal Production	Description:	BAT #1 PUSHING STACK
	By-product Coke Manufacturing	Stack Type:	Vertical
	Oven Pushing	Height:	100
Heat Content:	0	Diameter:	7.78999996185303
Sulfur Content:	0	Temperature:	100
Ash Content:	0	Velocity:	49.10
Throughput:	1179911 Tons	Gas Flow:	140410
Material:	Coal	Input/Output:	Process Material Produced (Outut)

Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.063	0	37.1672
NOX	Site-Specific Emission Factor	0.019	0	11.2092
PM10-FIL	Site-Specific Emission Factor	0.636	96	15.0085
PM25-FIL	Site-Specific Emission Factor	0.2545	96	6.0057
SO2	Site-Specific Emission Factor	0.098	0	57.8156
7439965	Site-Specific Emission Factor	3E-05	96	0.0007
7440020	Site-Specific Emission Factor	4E-05	96	0.0009
VOC	Site-Specific Emission Factor	0.077	0	45.4266
7439921	Site-Specific Emission Factor	5E-05	96	0.0012

Process ID: 10		Process Description: #1 QUENCHING	
SCC:	30300304	Stack:	17
	Primary Metal Production	Description:	BAT #1 QUENCH TOWER
	By-product Coke Manufacturing	Stack Type:	Vertical
	Quenching	Height:	85
Heat Content:	0	Diameter:	43
Sulfur Content:	0	Temperature:	140
Ash Content:	0	Velocity:	4.90
Throughput:	907687 Tons	Gas Flow:	426947
Material:	Coke	Input/Output:	Process Material Produced (Outut)

Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.05	48.5	11.6865
PM25-FIL	Site-Specific Emission Factor	0.04249	48.5	9.9312

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 010		Group Description: BATTERY #2		
Percent Quarterly Throughput				
Winter: 23		Spring: 26		Summer: 26
Fall: 25				
Days Per Week: 7		Weeks Per Year: 52		Hours Per Day: 24
Hours Per Year: 8760				
Process ID: 01		Process Description: #2 CHARGING		
SCC:	30300302	Stack:	145	
	Primary Metal Production	Description:	BAT 2 CHARGING FUG	
	By-product Coke Manufacturing	Stack Type:	Fugitive	
	Oven Charging	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1099609 Tons	Gas Flow:	0	
Material:	Coal	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.0114	0	6.2678
NH3	Site-Specific Emission Factor	1E-05	0	0.0055
NOX	Site-Specific Emission Factor	0.00057	0	0.3134
PM10-FIL	Site-Specific Emission Factor	0.008	0	4.3984
PM25-FIL	Site-Specific Emission Factor	0.0064	0	3.5187
SO2	Site-Specific Emission Factor	0.00038	0	0.2089
VOC	Site-Specific Emission Factor	0.0475	0	26.1157
7647010	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: #2 LIDS		
SCC:	30300314	Stack:	144	
	Primary Metal Production	Description:	BAT 2 LIDS FUG	
	By-product Coke Manufacturing	Stack Type:	Fugitive	
	Topside Leaks	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1099609 Tons	Gas Flow:	0	
Material:	Coal	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.00066	0	0.3629
NH3	Site-Specific Emission Factor	1E-05	0	0.0055
NOX	Site-Specific Emission Factor	1E-05	0	0.0055
PM10-FIL	Site-Specific Emission Factor	9E-05	0	0.0495
PM25-FIL	Site-Specific Emission Factor	8E-05	0	0.0440
SO2	Site-Specific Emission Factor	0.00011	0	0.0605
VOC	Site-Specific Emission Factor	0.00165	0	0.9072
7647010	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 03		Process Description: #2 OFFTAKE SYSTEM		
SCC:	30300314	Stack:	143	
	Primary Metal Production	Description:	BAT 2 OFFTAKE SYSTEM FUG	
	By-product Coke Manufacturing	Stack Type:	Fugitive	
	Topside Leaks	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1099609 Tons	Gas Flow:	0	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.00354	0	1.9463
NH3	Site-Specific Emission Factor	4E-05	0	0.0220
NOX	Site-Specific Emission Factor	6E-05	0	0.0330
PM10-FIL	Site-Specific Emission Factor	0.00047	0	0.2584
PM25-FIL	Site-Specific Emission Factor	0.00039	0	0.2144
SO2	Site-Specific Emission Factor	0.00059	0	0.3244
VOC	Site-Specific Emission Factor	0.00885	0	4.8658
7647010	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 04		Process Description: #2 DOORS		
SCC:	30300308	Stack:	146	
	Primary Metal Production	Description:	BAT 2 DOORS FUG	
	By-product Coke Manufacturing	Stack Type:	Fugitive	
	Oven/Door Leaks	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1099609 Tons	Gas Flow:	0	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.0024	0	1.3195
NH3	Site-Specific Emission Factor	0.0021	0	1.1546
NOX	Site-Specific Emission Factor	4E-05	0	0.0220
PM10-FIL	Site-Specific Emission Factor	0.00204	0	1.1216
PM25-FIL	Site-Specific Emission Factor	0.00169	0	0.9292
SO2	Site-Specific Emission Factor	0.00118	0	0.6488
VOC	Site-Specific Emission Factor	0.006	0	3.2988
7647010	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12, Burns Harbor, 46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: #2 UNDERFIRE - NATURAL GAS		
SCC:	30300317	Stack:	14	
	Primary Metal Production	Description:	COKE UNDRFIRE BAT #2 STK	
	By-product Coke Manufacturing	Stack Type:	Vertical	
	Combustion Stack: Coke Oven Gas (COG)	Height:	249	
Heat Content:	0	Diameter:	13.2700004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	15.70	
Throughput:	0 Million Cubic Feet	Gas Flow:	130281	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	0
NH3	Site-Specific Emission Factor	3.2	0	0
NOX	Site-Specific Emission Factor	280	0	0
PM10-FIL	Site-Specific Emission Factor	1.9	0	0
PM25-FIL	Site-Specific Emission Factor	1.9	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	0.64	0	0
VOC	Site-Specific Emission Factor	0.204	0	0
7439921	Site-Specific Emission Factor	0.0005	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 06		Process Description: #2 UNDERFIRE - COG		
SCC:	30300317	Stack:	14	
	Primary Metal Production	Description:	COKE UNDRFIRE BAT #2 STK	
	By-product Coke Manufacturing	Stack Type:	Vertical	
	Combustion Stack: Coke Oven Gas (COG)	Height:	249	
Heat Content:	0	Diameter:	13.2700004577637	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	15.70	
Throughput:	5516.3438 Million Cubic Feet	Gas Flow:	130281	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	50.7504
NOX	Site-Specific Emission Factor	60.57	0	167.0625
PM10-FIL	Site-Specific Emission Factor	4.35	0	11.9980
PM25-FIL	Site-Specific Emission Factor	3.219	0	8.8786
PM-CON	Site-Specific Emission Factor	5.7	0	15.7216
SO2	Site-Specific Emission Factor	660.52	0	1821.8277
VOC	Site-Specific Emission Factor	1.2	0	3.3098

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 07		Process Description: #2 PUSHING.		
SCC:	30300303	Stack:	12	
	Primary Metal Production	Description:	BAT #2 PUSHING STACK	
	By-product Coke Manufacturing	Stack Type:	Vertical	
	Oven Pushing	Height:	88	
Heat Content:	0	Diameter:	8	
Sulfur Content:	0	Temperature:	250	
Ash Content:	0	Velocity:	66.30	
Throughput:	1099609 Tons	Gas Flow:	199956	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.063	0	34.6377
NOX	Site-Specific Emission Factor	0.019	0	10.4463
PM10-FIL	Site-Specific Emission Factor	0.636	95.93	14.2318
PM25-FIL	Site-Specific Emission Factor	0.2545	95.93	5.6950
SO2	Site-Specific Emission Factor	0.098	0	53.8808
VOC	Site-Specific Emission Factor	0.077	0	42.3349
7439921	Site-Specific Emission Factor	5E-05	95.93	0.0011
7439965	Site-Specific Emission Factor	3E-05	95.93	0.0007
7440020	Site-Specific Emission Factor	4E-05	95.93	0.0009
Process ID: 09		Process Description: #2 QUENCHING		
SCC:	30300304	Stack:	18	
	Primary Metal Production	Description:	BAT #2 QUENCH TOWER	
	By-product Coke Manufacturing	Stack Type:	Vertical	
	Quenching	Height:	83	
Heat Content:	0	Diameter:	42.8699989318848	
Sulfur Content:	0	Temperature:	140	
Ash Content:	0	Velocity:	4.90	
Throughput:	845876 Tons	Gas Flow:	424370	
Material:	Coke	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.05	48.5	10.8907
PM25-FIL	Site-Specific Emission Factor	0.04249	48.5	9.2549

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 011		Group Description: COKE HANDLING/SCREEN		
Percent Quarterly Throughput				
Winter: 23	Spring: 26	Summer: 26	Fall: 25	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: COKE HANDLING		
SCC:	30300312	Stack:	147	
	Primary Metal Production	Description:	COKE HANDLING FUG	
	By-product Coke Manufacturing	Stack Type:	Fugitive	
	Coke: Crushing/Screening/Handling	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1753565.47 Tons	Gas Flow:	0	
Material:	Coke	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00535	0	4.6908
PM25-FIL	Site-Specific Emission Factor	0.00428	0	3.7526
Process ID: 02		Process Description: COKE SCREENING		
SCC:	30300312	Stack:	15	
	Primary Metal Production	Description:	COKE SCREEN BLDG MON	
	By-product Coke Manufacturing	Stack Type:	Fugitive	
	Coke: Crushing/Screening/Handling	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1753565.47 Tons	Gas Flow:	0	
Material:	Coke	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.03	94.99	1.3178
PM25-FIL	Site-Specific Emission Factor	0.02399	94.99	1.0538

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 012		Group Description: COKE OVEN COAL CHEM PLANT		
Percent Quarterly Throughput				
Winter: 23	Spring: 26	Summer: 26	Fall: 25	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: COKE OVEN COAL CHEM PLANT		
SCC:	30300315	Stack:	161	
	Primary Metal Production	Description:	COKE OVEN CHEM PLANT FUG	
	By-product Coke Manufacturing	Stack Type:	Fugitive	
	Gas By-product Plant	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1753565.47 Tons	Gas Flow:	0	
Material:	Coke	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.00018	0	0.1578
VOC	Site-Specific Emission Factor	0.00091	0	0.7979

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 013		Group Description:EXP CLEAN COKE GAS VALVE		
Percent Quarterly Throughput				
Winter: 26	Spring: 40	Summer: 31	Fall: 3	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: CLEAN GAS EXPORT LINE		
SCC:	10200707	Stack:	163	
	Industrial	Description:	CLEAN COKE GAS FLARE STK	
	Process Gas	Stack Type:	Fugitive	
	Coke Oven Gas	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	378.4191 Million Cubic Feet	Gas Flow:	0	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	3.4815
NOX	Site-Specific Emission Factor	80	0	15.1368
PM10-FIL	Site-Specific Emission Factor	4.35	0	0.8231
PM25-FIL	Site-Specific Emission Factor	3.219	0	0.6091
PM-CON	Site-Specific Emission Factor	5.7	0	1.0785
SO2	Site-Specific Emission Factor	660.52	0	124.9767
VOC	Site-Specific Emission Factor	1.2	0	0.2271

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 014		Group Description:BLAST FURNACE DEPARTMENT		
Percent Quarterly Throughput				
Winter: 25		Spring: 24		Summer: 23
Fall: 28				
Days Per Week: 7		Weeks Per Year: 52		Hours Per Day: 24
Hours Per Year: 8760				
Process ID: 01		Process Description: ORE DOCK UNLOADING		
SCC:	30301515	Stack:	132	
	Primary Metal Production	Description:	ORE DOCK UNLOADING FUG	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Blast Furnace: Raw Materials Handling/Transfer/Storage	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	4377839 Tons	Gas Flow:	0	
Material:	Ore	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.0016	0	3.5023
PM25-FIL	Site-Specific Emission Factor	0.00047	0	1.0288
Process ID: 02		Process Description: ORE FIELD STACKER/RECLAIM		
SCC:	30301515	Stack:	131	
	Primary Metal Production	Description:	ORE FLD STACK/RECLAIM FUG	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Blast Furnace: Raw Materials Handling/Transfer/Storage	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	4297630 Tons	Gas Flow:	0	
Material:	Ore	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00368	0	7.9076
PM25-FIL	Site-Specific Emission Factor	0.00108	0	2.3207

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 03		Process Description: BFGCI COAL PILE ACTIVITY	
SCC:	30301515	Stack:	136
	Primary Metal Production	Description:	BFGCI COAL PILE FUG
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive
	Blast Furnace: Raw Materials Handling/Transfer/Storage	Height:	0
Heat Content:	0	Diameter:	0
Sulfur Content:	0	Temperature:	0
Ash Content:	0	Velocity:	0
Throughput:	0 Tons	Gas Flow:	0
Material:	Coal	Input/Output:	Process Material Produced (Outut)

Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00912	0	0
PM25-FIL	Site-Specific Emission Factor	0.00268	0	0

Process ID: 04		Process Description: THAW SHED	
SCC:	30390003	Stack:	35
	Primary Metal Production	Description:	THAW SHED ROOF MONITOR
	Fuel Fired Equipment	Stack Type:	Fugitive
	Natural Gas: Process Heaters	Height:	0
Heat Content:	0	Diameter:	0
Sulfur Content:	0	Temperature:	0
Ash Content:	0	Velocity:	0
Throughput:	21.659 Million Cubic Feet	Gas Flow:	0
Material:	Natural Gas	Input/Output:	Process Material Used (Input)

Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	0.9097
NH3	Site-Specific Emission Factor	3.2	0	0.0347
NOX	Site-Specific Emission Factor	140	0	1.5161
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.0206
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.0206
PM-CON	Site-Specific Emission Factor	5.7	0	0.0617
SO2	Site-Specific Emission Factor	0.64	0	0.0069
VOC	Site-Specific Emission Factor	5.5	0	0.0596
7439921	Site-Specific Emission Factor	0.0005	0	0.0000

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: CAR DUMPER		
SCC:	30301599	Stack:	27	
	Primary Metal Production	Description:	BF CAR DUMPER BGHSE STK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Other Not Classified	Height:	33	
Heat Content:	0	Diameter:	4.90000009536743	
Sulfur Content:	0	Temperature:	77	
Ash Content:	0	Velocity:	106.10	
Throughput:	2277830.15 Tons	Gas Flow:	120046	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.07174	97.8	1.7975
PM25-FIL	Site-Specific Emission Factor	0.0211	97.8	0.5287
Process ID: 06		Process Description: TRUCK HOPPER		
SCC:	30301515	Stack:	27	
	Primary Metal Production	Description:	BF CAR DUMPER BGHSE STK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Blast Furnace: Raw Materials Handling/Transfer/Storage	Height:	33	
Heat Content:	0	Diameter:	4.90000009536743	
Sulfur Content:	0	Temperature:	77	
Ash Content:	0	Velocity:	106.10	
Throughput:	0 Tons	Gas Flow:	120046	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0	97.8	0
PM25-FIL	Site-Specific Emission Factor	0	97.8	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 07		Process Description: BFGCI COAL BINS 1&2		
SCC:	30301599	Stack:	37	
	Primary Metal Production	Description:	RAW COAL BIN FLTR STK 1&2	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Other Not Classified	Height:	105	
Heat Content:	0	Diameter:	0.699999988079071	
Sulfur Content:	0	Temperature:	70	
Ash Content:	0	Velocity:	20.80	
Throughput:	0 Tons	Gas Flow:	480	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.01715	97.52	0
PM25-FIL	Site-Specific Emission Factor	0.00504	97.52	0
Process ID: 08		Process Description: BFGCI MILLING 1&2		
SCC:	30301599	Stack:	39	
	Primary Metal Production	Description:	MILL BAG FILTER STK 1&2	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Other Not Classified	Height:	200	
Heat Content:	0	Diameter:	3.76999998092651	
Sulfur Content:	0	Temperature:	180	
Ash Content:	0	Velocity:	47.20	
Throughput:	0 Tons	Gas Flow:	31613	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.292	99.24	0
PM25-FIL	Site-Specific Emission Factor	0.08588	99.24	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 09		Process Description: BFGCI STORAGE BINS 1-4		
SCC:	30301599	Stack:	41	
	Primary Metal Production	Description:	PRODUCT BIN BGHSE STK 1-4	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Other Not Classified	Height:	115	
Heat Content:	0	Diameter:	2.32999992370605	
Sulfur Content:	0	Temperature:	70	
Ash Content:	0	Velocity:	3.10	
Throughput:	0 Tons	Gas Flow:	793	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.17521	98.99	0
PM25-FIL	Site-Specific Emission Factor	0.05153	98.99	0
Process ID: 10		Process Description: BFGCI DISTRIB BINS 1-4		
SCC:	30301599	Stack:	45	
	Primary Metal Production	Description:	DIST BIN BGHSE STK 1-4	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Other Not Classified	Height:	25	
Heat Content:	0	Diameter:	2.32999992370605	
Sulfur Content:	0	Temperature:	70	
Ash Content:	0	Velocity:	3.10	
Throughput:	0 Tons	Gas Flow:	793	
Material:	Coal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.17521	98.99	0
PM25-FIL	Site-Specific Emission Factor	0.05153	98.99	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 11		Process Description: BFGCI LOCK HOPPERS 1-8	
SCC:	30301599	Stack:	49
	Primary Metal Production	Description:	LOCK HOPPER BGHSE STK 1-8
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical
	Other Not Classified	Height:	55
Heat Content:	0	Diameter:	2.35999989509583
Sulfur Content:	0	Temperature:	70
Ash Content:	0	Velocity:	13.40
Throughput:	0 Tons	Gas Flow:	3517
Material:	Coal	Input/Output:	Process Material Produced (Outut)

Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.35042	98.99	0
PM25-FIL	Site-Specific Emission Factor	0.10306	98.99	0

Process ID: 12		Process Description: D STOCKHOUSE	
SCC:	30301513	Stack:	28
	Primary Metal Production	Description:	STOCKHOUSE D MONITOR
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Fugitive
	Blast Furnace: Casting, Furnace with Local Evacuation	Height:	0
Heat Content:	0	Diameter:	0
Sulfur Content:	0	Temperature:	0
Ash Content:	0	Velocity:	0
Throughput:	2223077 Tons	Gas Flow:	0
Material:	Hot Metal	Input/Output:	Process Material Produced (Outut)

Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.11022	94.98	6.1502
PM25-FIL	Site-Specific Emission Factor	0.04971	94.98	2.7738

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 13		Process Description: D CASTHOUSE		
SCC:	30301513	Stack:	33	
	Primary Metal Production	Description:	D CASTHOUSE STACKS(3)	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Vertical	
	Blast Furnace: Casting, Furnace with Local Evacuation	Height:	62	
Heat Content:	0	Diameter:	5.13000011444092	
Sulfur Content:	0	Temperature:	500	
Ash Content:	0	Velocity:	80.60	
Throughput:	2223077 Tons	Gas Flow:	99956	
Material:	Hot Metal	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NOX	Site-Specific Emission Factor	0.03	0	33.3462
PM10-FIL	Site-Specific Emission Factor	0.3	96.99	10.0372
PM25-FIL	Site-Specific Emission Factor	0.3	99.63	1.2338
7439921	Site-Specific Emission Factor	0.00019	96.99	0.0064
7439965	Site-Specific Emission Factor	0.00175	96.99	0.0586
7439976	Site-Specific Emission Factor	4E-05	96.99	0.0013
7440020	Site-Specific Emission Factor	0.00157	96.99	0.0525
7440360	Site-Specific Emission Factor	0	96.99	0
7440382	Site-Specific Emission Factor	0	96.99	0
7440417	Site-Specific Emission Factor	0	96.99	0
7440439	Site-Specific Emission Factor	0.00011	96.99	0.0037
7440473	Site-Specific Emission Factor	0.00022	96.99	0.0074
7440484	Site-Specific Emission Factor	4E-05	96.99	0.0013
7782492	Site-Specific Emission Factor	0.00049	96.99	0.0164

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 14		Process Description: D CASTHOUSE - NATURAL GAS		
SCC:	30390003	Stack:	34	
	Primary Metal Production	Description:	BF D STOVE STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	201	
Heat Content:	0	Diameter:	11.789999961853	
Sulfur Content:	0	Temperature:	475	
Ash Content:	0	Velocity:	48.90	
Throughput:	344.463 Million Cubic Feet	Gas Flow:	320315	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	14.4674
NH3	Site-Specific Emission Factor	3.2	0	0.5511
NOX	Site-Specific Emission Factor	280	0	48.2248
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.3272
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.3272
PM-CON	Site-Specific Emission Factor	5.7	0	0.9817
SO2	Site-Specific Emission Factor	0.64	0	0.1102
VOC	Site-Specific Emission Factor	5.5	0	0.9473
7439921	Site-Specific Emission Factor	0.0005	0	0.0001

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12, Burns Harbor, 46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 15		Process Description: D CASTHOUSE - COG		
SCC:	30390004	Stack:	34	
	Primary Metal Production	Description:	BF D STOVE STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Process Gas: Process Heaters	Height:	201	
Heat Content:	0	Diameter:	11.789999961853	
Sulfur Content:	0	Temperature:	475	
Ash Content:	0	Velocity:	48.90	
Throughput:	0 Million Cubic Feet	Gas Flow:	320315	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	0
NOX	Site-Specific Emission Factor	68.798	0	0
PM10-FIL	Site-Specific Emission Factor	4.35	0	0
PM25-FIL	Site-Specific Emission Factor	3.219	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	660.52	0	0
VOC	Site-Specific Emission Factor	1.2	0	0
Process ID: 16		Process Description: D CASTHOUSE - BFG		
SCC:	10200704	Stack:	34	
	Industrial	Description:	BF D STOVE STK	
	Process Gas	Stack Type:	Vertical	
	Blast Furnace Gas	Height:	201	
Heat Content:	0	Diameter:	11.789999961853	
Sulfur Content:	0	Temperature:	475	
Ash Content:	0	Velocity:	48.90	
Throughput:	30229.287 Million Cubic Feet	Gas Flow:	320315	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	454	0	6862.0481
NOX	Site-Specific Emission Factor	12.07	0	182.4337
PM10-FIL	Site-Specific Emission Factor	2.9	0	43.8325
PM25-FIL	Site-Specific Emission Factor	2.9	0	43.8325
PM-CON	Site-Specific Emission Factor	5.7	0	86.1535
SO2	Site-Specific Emission Factor	13.2	0	199.5133

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 17		Process Description: D FCE SLAG PIT & LOADOUT		
SCC:	30301564	Stack:	134	
	Primary Metal Production	Description:	D FCE SLAG PIT/LOADOUT FUG	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Slag Tapping/Dumping	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	2223077 Tons	Gas Flow:	0	
Material:	Hot Metal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00162	0	1.8007
PM25-FIL	Site-Specific Emission Factor	0.00057	0	0.6336
SO2	Site-Specific Emission Factor	0.085	0	94.4808
Process ID: 18		Process Description: C STOCKHOUSE		
SCC:	30301513	Stack:	26	
	Primary Metal Production	Description:	STOCKHOUSE C MONITOR	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Fugitive	
	Blast Furnace: Casting, Furnace with Local Evacuation	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	2154762 Tons	Gas Flow:	0	
Material:	Hot Metal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.11022	94.98	5.9612
PM25-FIL	Site-Specific Emission Factor	0.0497	94.98	2.6880

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 19		Process Description: C CASTHOUSE		
SCC:	30301513	Stack:	30	
	Primary Metal Production	Description:	C CASTHOUSE STACKS(3)	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Vertical	
	Blast Furnace: Casting, Furnace with Local Evacuation	Height:	62	
Heat Content:	0	Diameter:	5.13000011444092	
Sulfur Content:	0	Temperature:	500	
Ash Content:	0	Velocity:	80.60	
Throughput:	2154762 Tons	Gas Flow:	99956	
Material:	Hot Metal	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NOX	Site-Specific Emission Factor	0.03	0	32.3214
PM10-FIL	Site-Specific Emission Factor	0.3	96.99	9.7288
PM25-FIL	Site-Specific Emission Factor	0.3	99.63	1.1959
7439921	Site-Specific Emission Factor	0.00021	96.99	0.0068
7439965	Site-Specific Emission Factor	0.00108	96.99	0.0350
7439976	Site-Specific Emission Factor	3E-05	96.99	0.0010
7440020	Site-Specific Emission Factor	0.00058	96.99	0.0188
7440360	Site-Specific Emission Factor	0.00011	96.99	0.0036
7440382	Site-Specific Emission Factor	3E-05	96.99	0.0010
7440417	Site-Specific Emission Factor	3E-05	96.99	0.0010
7440439	Site-Specific Emission Factor	3E-05	96.99	0.0010
7440473	Site-Specific Emission Factor	0.00018	96.99	0.0058
7440484	Site-Specific Emission Factor	3E-05	96.99	0.0010
7782492	Site-Specific Emission Factor	0.0005	96.99	0.0162

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 20		Process Description: C CASTHOUSE - NATURAL GAS		
SCC:	30390003	Stack:	31	
	Primary Metal Production	Description:	BF C STOVE STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	201	
Heat Content:	0	Diameter:	11.4300003051758	
Sulfur Content:	0	Temperature:	475	
Ash Content:	0	Velocity:	52	
Throughput:	249.996 Million Cubic Feet	Gas Flow:	320138	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	10.4998
NH3	Site-Specific Emission Factor	3.2	0	0.4000
NOX	Site-Specific Emission Factor	280	0	34.9994
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.2375
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.2375
PM-CON	Site-Specific Emission Factor	5.7	0	0.7125
SO2	Site-Specific Emission Factor	0.64	0	0.0800
VOC	Site-Specific Emission Factor	5.5	0	0.6875
7439921	Site-Specific Emission Factor	0.0005	0	0.0001

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 21		Process Description: C CASTHOUSE - COG		
SCC:	30390004	Stack:	31	
	Primary Metal Production	Description:	BF C STOVE STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Process Gas: Process Heaters	Height:	201	
Heat Content:	0	Diameter:	11.4300003051758	
Sulfur Content:	0	Temperature:	475	
Ash Content:	0	Velocity:	52	
Throughput:	0 Million Cubic Feet	Gas Flow:	320138	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	0
NOX	Site-Specific Emission Factor	90.835	0	0
PM10-FIL	Site-Specific Emission Factor	4.35	0	0
PM25-FIL	Site-Specific Emission Factor	3.219	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	660.52	0	0
VOC	Site-Specific Emission Factor	1.2	0	0
Process ID: 22		Process Description: C CASTHOUSE - BFG		
SCC:	30390004	Stack:	31	
	Primary Metal Production	Description:	BF C STOVE STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Process Gas: Process Heaters	Height:	201	
Heat Content:	0	Diameter:	11.4300003051758	
Sulfur Content:	0	Temperature:	475	
Ash Content:	0	Velocity:	52	
Throughput:	35148.667 Million Cubic Feet	Gas Flow:	320138	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	572	0	10052.5188
NOX	Site-Specific Emission Factor	15.936	0	280.0646
PM10-FIL	Site-Specific Emission Factor	2.9	0	50.9656
PM25-FIL	Site-Specific Emission Factor	2.9	0	50.9656
PM-CON	Site-Specific Emission Factor	5.7	0	100.1737
SO2	Site-Specific Emission Factor	13.2	0	231.9812

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 23		Process Description: C FCE SLAG PIT & LOADOUT		
SCC:	30301564	Stack:	133	
	Primary Metal Production	Description:	C FCE SLAG PIT/LOADOUT FUG	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Slag Tapping/Dumping	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	2154762 Tons	Gas Flow:	0	
Material:	Hot Metal	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00162	0	1.7454
PM25-FIL	Site-Specific Emission Factor	0.00057	0	0.6141
SO2	Site-Specific Emission Factor	0.085	0	91.5774
Process ID: 24		Process Description: FLUE DUST HANDLING C&D		
SCC:	30301502	Stack:	162	
	Primary Metal Production	Description:	C&D FLUE DUST HANDLING FUG	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Fugitive	
	Sintering: Raw Materials Handling	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	4377839 Tons	Gas Flow:	0	
Material:	Hot Metal	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00025	47.5	0.2873
PM25-FIL	Site-Specific Emission Factor	0.00022	47.5	0.2528

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 25		Process Description: SINTER BAY PLANT PILES		
SCC:	30300699	Stack:	128	
	Primary Metal Production	Description:	SINTER BAY PLANT PILE FUG	
	Ferroalloy, Open Furnace	Stack Type:	Fugitive	
	Other Not Classified	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1630557.1883 Tons	Gas Flow:	0	
Material:	Sinter	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00219	0	1.7855
PM25-FIL	Site-Specific Emission Factor	0.00064	0	0.5218
Process ID: 26		Process Description: SINTER BEDDING PILES		
SCC:	30300699	Stack:	129	
	Primary Metal Production	Description:	SINTER BEDDING PILES FUG	
	Ferroalloy, Open Furnace	Stack Type:	Fugitive	
	Other Not Classified	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1630557.1883 Tons	Gas Flow:	0	
Material:	Sinter	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00398	0	3.2448
PM25-FIL	Site-Specific Emission Factor	0.00117	0	0.9539

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 27		Process Description: BEDDING PLANT MATL TRANS		
SCC:	30301502	Stack:	22	
	Primary Metal Production	Description:	SNTR SURGE BIN MON	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Fugitive	
	Sintering: Raw Materials Handling	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1630557.1883 Tons	Gas Flow:	0	
Material:	Sinter	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00062	49.4	0.2558
PM25-FIL	Site-Specific Emission Factor	0.00021	49.4	0.0866
Process ID: 28		Process Description: SINTER COOLER		
SCC:	30301505	Stack:	135	
	Primary Metal Production	Description:	SINTER COOLER FUG	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Fugitive	
	Sintering: Cooler	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1630557.1883 Tons	Gas Flow:	0	
Material:	Sinter	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.0127	0	10.3540
PM25-FIL	Site-Specific Emission Factor	0.00423	0	3.4486

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 29		Process Description: SINTER MISC MATL HANDLING		
SCC:	30301504	Stack:	23	
	Primary Metal Production	Description:	SINTER DEDUST BGHSE STK	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Vertical	
	Sintering: Discharge End	Height:	137	
Heat Content:	0	Diameter:	12.0799999237061	
Sulfur Content:	0	Temperature:	100	
Ash Content:	0	Velocity:	34.60	
Throughput:	1630557.1883 Tons	Gas Flow:	237931	
Material:	Sinter	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	5.7	99.55	20.9119
PM25-FIL	Site-Specific Emission Factor	5.7	99.74	12.0824
7439921	Site-Specific Emission Factor	0.00105	99.55	0.0039
7439965	Site-Specific Emission Factor	0.02622	99.55	0.0962
7439976	Site-Specific Emission Factor	0.00014	99.55	0.0005
7440439	Site-Specific Emission Factor	0.00014	99.55	0.0005
7440473	Site-Specific Emission Factor	0.00178	99.55	0.0065
7440484	Site-Specific Emission Factor	0.00013	99.55	0.0005
7782492	Site-Specific Emission Factor	0.0013	99.55	0.0048

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 30		Process Description: SINTER WINDBOXES		
SCC:	30301503	Stack:	25	
	Primary Metal Production	Description:	SINTER WIND BOX SCRUB STK	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Vertical	
	Sintering: Windbox	Height:	79	
Heat Content:	0	Diameter:	17	
Sulfur Content:	0	Temperature:	114	
Ash Content:	0	Velocity:	45.80	
Throughput:	1630557.1883 Tons	Gas Flow:	623741	
Material:	Sinter	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	43.8454	0	35746.2161
NOX	Site-Specific Emission Factor	0.66671	0	543.5544
PM10-FIL	Site-Specific Emission Factor	5.4	97.11	127.2324
PM25-FIL	Site-Specific Emission Factor	5.4	97.42	113.5846
SO2	Site-Specific Emission Factor	0.771	0	628.5798
VOC	Site-Specific Emission Factor	0.099	0	80.7126
7439921	Site-Specific Emission Factor	0.08013	97.11	1.8880
7439965	Site-Specific Emission Factor	0.00221	97.11	0.0521
7439976	Site-Specific Emission Factor	0.00089	97.11	0.0210
7440020	Site-Specific Emission Factor	0.00045	97.11	0.0106
7440382	Site-Specific Emission Factor	9E-05	97.11	0.0021
7440439	Site-Specific Emission Factor	0.00836	97.11	0.1970
7440473	Site-Specific Emission Factor	0.00041	97.11	0.0097
7440484	Site-Specific Emission Factor	6E-05	97.11	0.0014
7782492	Site-Specific Emission Factor	0.00186	97.11	0.0438

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

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Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 31		Process Description: SINTER MIXING DRUM		
SCC:	30301515	Stack:	24	
	Primary Metal Production	Description:	SINTER MIXING DRUM STK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Blast Furnace: Raw Materials Handling/Transfer/Storage	Height:	91	
Heat Content:	0	Diameter:	2.5	
Sulfur Content:	0	Temperature:	125	
Ash Content:	0	Velocity:	50.90	
Throughput:	1630557.1883 Tons	Gas Flow:	14991	
Material:	Sinter	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.01551	96.04	0.5007
PM25-FIL	Site-Specific Emission Factor	0.00456	96.04	0.1472
Process ID: 32		Process Description: SINTER TRANSFER STATIONS		
SCC:	30301502	Stack:	36	
	Primary Metal Production	Description:	BF JUNCTION J21 MONITOR	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Fugitive	
	Sintering: Raw Materials Handling	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1222917.8912 Tons	Gas Flow:	0	
Material:	Sinter	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.0182	94.98	0.5587
PM25-FIL	Site-Specific Emission Factor	0.00607	94.98	0.1863

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

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Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 33		Process Description: BEACH IRON		
SCC:	30301513	Stack:	137	
	Primary Metal Production	Description:	BEACH IRON FUG	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Fugitive	
	Blast Furnace: Casting, Furnace with Local Evacuation	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	44010 Tons	Gas Flow:	0	
Material:	Hot Metal	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.19	0	4.1810
PM25-FIL	Site-Specific Emission Factor	0.08569	0	1.8856
Process ID: 34		Process Description: BFGCI MILLING COMBUSTION		
SCC:	30390003	Stack:	39	
	Primary Metal Production	Description:	MILL BAG FILTER STK 1&2	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	200	
Heat Content:	0	Diameter:	3.76999998092651	
Sulfur Content:	0	Temperature:	180	
Ash Content:	0	Velocity:	47.20	
Throughput:	0 Million Cubic Feet	Gas Flow:	31613	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	0
NH3	Site-Specific Emission Factor	3.2	0	0
NOX	Site-Specific Emission Factor	100	0	0
PM10-FIL	Site-Specific Emission Factor	1.9	99.24	0
PM25-FIL	Site-Specific Emission Factor	1.9	99.24	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	0.64	0	0
VOC	Site-Specific Emission Factor	5.5	0	0
7439921	Site-Specific Emission Factor	0.0005	99.24	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

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Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 35		Process Description: BLAST FURNACE CLEAN GAS FLARE		
SCC:	30390024	Stack:	34	
	Primary Metal Production	Description:	BF D STOVE STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Process Gas: Flares	Height:	201	
Heat Content:	0	Diameter:	11.789999961853	
Sulfur Content:	0	Temperature:	475	
Ash Content:	0	Velocity:	48.90	
Throughput:	75174.0117 Million Cubic Feet	Gas Flow:	320315	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	13.7	0	514.9420
NOX	Site-Specific Emission Factor	23	0	864.5011
PM10-FIL	Site-Specific Emission Factor	2.9	0	109.0023
PM25-FIL	Site-Specific Emission Factor	2.9	0	109.0023
PM-CON	Site-Specific Emission Factor	5.7	0	214.2459
SO2	Site-Specific Emission Factor	13.2	0	496.1485

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

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Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 015		Group Description:BOF SHOP BUILDING		
Percent Quarterly Throughput				
Winter: 26	Spring: 26	Summer: 25	Fall: 23	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: HOT METAL STATION #1		
SCC:	30301518	Stack:	57	
	Primary Metal Production	Description:	BOF HMD #1 BGHSE STK	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Vertical	
	Hot Metal Desulfurization	Height:	85	
Heat Content:	0	Diameter:	6.73999977111816	
Sulfur Content:	0	Temperature:	90	
Ash Content:	0	Velocity:	42.30	
Throughput:	1450241 Tons	Gas Flow:	90553	
Material:	Hot Metal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.054	0	39.1565
NOX	Site-Specific Emission Factor	0.001	0	0.7251
PM10-FIL	Site-Specific Emission Factor	0.72	97.76	11.6947
PM25-FIL	Site-Specific Emission Factor	0.72	97.76	11.6947
SO2	Site-Specific Emission Factor	0.014	0	10.1517
7439965	Site-Specific Emission Factor	0.00124	97.9	0.0189
7440020	Site-Specific Emission Factor	4E-05	97.9	0.0006
7440473	Site-Specific Emission Factor	0.0001	97.9	0.0015

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

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Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: HOT METAL STATION #2		
SCC:	30301518	Stack:	59	
	Primary Metal Production	Description:	BOF HMD #2 BGHSE STK	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Vertical	
	Hot Metal Desulfurization	Height:	85	
Heat Content:	0	Diameter:	9.97000026702881	
Sulfur Content:	0	Temperature:	90	
Ash Content:	0	Velocity:	19.30	
Throughput:	1426383 Tons	Gas Flow:	90404	
Material:	Hot Metal	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.0387	0	27.6005
NOX	Site-Specific Emission Factor	0.001	0	0.7132
PM10-FIL	Site-Specific Emission Factor	0.72	97.51	12.7861
PM25-FIL	Site-Specific Emission Factor	0.72	97.51	12.7861
SO2	Site-Specific Emission Factor	0.014	0	9.9847
7439921	Site-Specific Emission Factor	0.00249	97.51	0.0442
7439965	Site-Specific Emission Factor	0.00352	97.51	0.0625
7439976	Site-Specific Emission Factor	0.0115	97.51	0.2042
7440020	Site-Specific Emission Factor	0.00163	97.51	0.0289
7440439	Site-Specific Emission Factor	0.00029	97.51	0.0051
7440473	Site-Specific Emission Factor	0.00074	97.51	0.0131
7440484	Site-Specific Emission Factor	0.00013	97.51	0.0023

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

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Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 03		Process Description: HOT METAL STATION #3		
SCC:	30301518	Stack:	60	
	Primary Metal Production	Description:	BOF HMD #3 BGHSE STK	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Vertical	
	Hot Metal Desulfurization	Height:	40	
Heat Content:	0	Diameter:	8.73999977111816	
Sulfur Content:	0	Temperature:	115	
Ash Content:	0	Velocity:	37.5	
Throughput:	1397349 Tons	Gas Flow:	134988	
Material:	Hot Metal	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.0387	0	27.0387
NOX	Site-Specific Emission Factor	0.001	0	0.6987
PM10-FIL	Site-Specific Emission Factor	0.72	98.51	7.4954
PM25-FIL	Site-Specific Emission Factor	0.72	98.63	6.8917
SO2	Site-Specific Emission Factor	0.014	0	9.7814
7439921	Site-Specific Emission Factor	0.00249	98.51	0.0259
7439965	Site-Specific Emission Factor	0.00352	98.51	0.0366
7439976	Site-Specific Emission Factor	0.0115	98.51	0.1197
7440020	Site-Specific Emission Factor	0.00163	98.51	0.0170
7440439	Site-Specific Emission Factor	0.00029	98.51	0.0030
7440473	Site-Specific Emission Factor	0.00074	98.51	0.0077
7440484	Site-Specific Emission Factor	0.00013	98.51	0.0014

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

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Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 04		Process Description: TRACK HOPPER		
SCC:	30301515	Stack:	68	
	Primary Metal Production	Description:	TRACK HOPPER BGHSE STK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Blast Furnace: Raw Materials Handling/Transfer/Storage	Height:	45	
Heat Content:	0	Diameter:	3.5	
Sulfur Content:	0	Temperature:	70	
Ash Content:	0	Velocity:	62.40	
Throughput:	5236666.76 Tons	Gas Flow:	36022	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.02852	93.1	5.1526
PM25-FIL	Site-Specific Emission Factor	0.00839	93.1	1.5158
Process ID: 05		Process Description: JUNCTION HOUSE H1		
SCC:	30301517	Stack:	71	
	Primary Metal Production	Description:	JUNCTION H1 BGHSE STK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Hot Metal Transfer	Height:	61	
Heat Content:	0	Diameter:	2	
Sulfur Content:	0	Temperature:	70	
Ash Content:	0	Velocity:	21.20	
Throughput:	5236666.76 Tons	Gas Flow:	3996	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00604	93.06	1.0975
PM25-FIL	Site-Specific Emission Factor	0.00497	93.06	0.9031

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

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Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 06		Process Description: JUNCTION HOUSE H2		
SCC:	30301517	Stack:	72	
	Primary Metal Production	Description:	JUNCTION H2 BGHSE STK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Hot Metal Transfer	Height:	155	
Heat Content:	0	Diameter:	2	
Sulfur Content:	0	Temperature:	70	
Ash Content:	0	Velocity:	21.20	
Throughput:	5236666.76 Tons	Gas Flow:	3996	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00427	93.06	0.7759
PM25-FIL	Site-Specific Emission Factor	0.00351	93.06	0.6378
Process ID: 07		Process Description: BOF 1&2 STORAGE BINS		
SCC:	30301517	Stack:	66	
	Primary Metal Production	Description:	BOF 1&2 STOR BIN BGHS STK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Hot Metal Transfer	Height:	40	
Heat Content:	0	Diameter:	2	
Sulfur Content:	0	Temperature:	70	
Ash Content:	0	Velocity:	106.10	
Throughput:	5236666.76 Tons	Gas Flow:	19999	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00697	93.06	1.2665
PM25-FIL	Site-Specific Emission Factor	0.00573	93.06	1.0412

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Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 08		Process Description: BOF WEIGH HOPPERS		
SCC:	30301517	Stack:	67	
	Primary Metal Production	Description:	BOF WEIGH HOP BGHSE STKS	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Hot Metal Transfer	Height:	60	
Heat Content:	0	Diameter:	4.23999977111816	
Sulfur Content:	0	Temperature:	70	
Ash Content:	0	Velocity:	47.20	
Throughput:	5236666.76 Tons	Gas Flow:	39987	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00841	93.04	1.5326
PM25-FIL	Site-Specific Emission Factor	0.00692	93.04	1.2611
Process ID: 09		Process Description: FM BOILER		
SCC:	10200601	Stack:	65	
	Industrial	Description:	BOF SHOP FM BOILER STK	
	Natural Gas	Stack Type:	Vertical	
	> 100 Million Btu/hr	Height:	222	
Heat Content:	0	Diameter:	6.53999996185303	
Sulfur Content:	0	Temperature:	400	
Ash Content:	0	Velocity:	6.90	
Throughput:	0 Million Cubic Feet	Gas Flow:	13907	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	0
NH3	Site-Specific Emission Factor	3.2	0	0
NOX	Site-Specific Emission Factor	100	0	0
PM10-FIL	Site-Specific Emission Factor	1.9	0	0
PM25-FIL	Site-Specific Emission Factor	1.9	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	0.64	0	0
VOC	Site-Specific Emission Factor	5.5	0	0
7439921	Site-Specific Emission Factor	0.0005	0	0

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Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 10		Process Description: BOF 1&2 CHRGR,TAP,SLAGOFF		
SCC:	30301521	Stack:	170	
	Primary Metal Production	Description:	BOF MACT Baghouse STK	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Vertical	
	BOF, Top Blown Furnace: Charging	Height:	120	
Heat Content:	0	Diameter:	20	
Sulfur Content:	0	Temperature:	94	
Ash Content:	0	Velocity:	43	
Throughput:	3258806.62 Tons	Gas Flow:	810531	
Material:	Steel	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.032	97.8	1.1471
PM25-FIL	Site-Specific Emission Factor	0.01486	97.8	0.5327
VOC	Site-Specific Emission Factor	0.0011	29.4	1.2654
7439921	Site-Specific Emission Factor	0.00022	97.8	0.0079
7439965	Site-Specific Emission Factor	0.00078	97.8	0.0280
7439976	Site-Specific Emission Factor	5E-05	97.8	0.0018
7440020	Site-Specific Emission Factor	0.0001	97.8	0.0036
7440439	Site-Specific Emission Factor	1E-05	97.8	0.0004
7440473	Site-Specific Emission Factor	1E-05	97.8	0.0004
7440484	Site-Specific Emission Factor	2E-05	97.8	0.0007

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 11		Process Description: BOF 1&2 REFINING CYCLE		
SCC:	30301522	Stack:	62	
	Primary Metal Production	Description:	BOF FCE #1 & #2 (3 STKS)	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Vertical	
	BOF, Top Blown Furnace: Melting and Refining	Height:	82	
Heat Content:	0	Diameter:	19.7600002288818	
Sulfur Content:	0	Temperature:	125	
Ash Content:	0	Velocity:	18.5	
Throughput:	3258806.62 Tons	Gas Flow:	340398	
Material:	Steel	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	139	97.9	4756.2283
NOX	Site-Specific Emission Factor	0.054	0	87.9878
PM10-FIL	Site-Specific Emission Factor	0.586	99.68	3.0555
PM25-FIL	Site-Specific Emission Factor	0.20627	99.68	1.0755
VOC	Site-Specific Emission Factor	0.0014	49.95	1.1417
7439921	Site-Specific Emission Factor	0.00207	99.68	0.0108
7439965	Site-Specific Emission Factor	0.00337	99.68	0.0176
7439976	Site-Specific Emission Factor	0.00012	99.68	0.0006
7440020	Site-Specific Emission Factor	6E-05	99.68	0.0003
7440439	Site-Specific Emission Factor	0.00016	99.68	0.0008
7440473	Site-Specific Emission Factor	0.00014	99.68	0.0007
7440484	Site-Specific Emission Factor	3E-05	99.68	0.0002
7782492	Site-Specific Emission Factor	0.00014	99.68	0.0007

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 12		Process Description: BOF 3 CHARG,TAP,SLAGOFF		
SCC:	30301521	Stack:	170	
	Primary Metal Production	Description:	BOF MACT Baghouse STK	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Vertical	
	BOF, Top Blown Furnace: Charging	Height:	120	
Heat Content:	0	Diameter:	20	
Sulfur Content:	0	Temperature:	94	
Ash Content:	0	Velocity:	43	
Throughput:	1977860.15 Tons	Gas Flow:	810531	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.032	97.8	0.6962
PM25-FIL	Site-Specific Emission Factor	0.01463	97.8	0.3183
VOC	Site-Specific Emission Factor	0.0011	96.04	0.0431
7439921	Site-Specific Emission Factor	0.00022	97.8	0.0048
7439965	Site-Specific Emission Factor	0.00078	97.8	0.0170
7439976	Site-Specific Emission Factor	5E-05	97.8	0.0011
7440020	Site-Specific Emission Factor	0.0001	97.8	0.0022
7440439	Site-Specific Emission Factor	1E-05	97.8	0.0002
7440473	Site-Specific Emission Factor	1E-05	97.8	0.0002
7440484	Site-Specific Emission Factor	2E-05	97.8	0.0004

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 13		Process Description: BOF 3 REFINING CYCLE		
SCC:	30301522	Stack:	64	
	Primary Metal Production	Description:	BOF FCE #3 STACK	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Vertical	
	BOF, Top Blown Furnace: Melting and Refining	Height:	38	
Heat Content:	0	Diameter:	22	
Sulfur Content:	0	Temperature:	138	
Ash Content:	0	Velocity:	8.70	
Throughput:	1977860.15 Tons	Gas Flow:	198429	
Material:	Steel	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	139	97.9	2886.6869
NOX	Site-Specific Emission Factor	0.054	0	53.4022
PM10-FIL	Site-Specific Emission Factor	0.586	99.68	1.8544
PM25-FIL	Site-Specific Emission Factor	0.20627	99.68	0.6528
VOC	Site-Specific Emission Factor	0.0014	97.9	0.0291
7439921	Site-Specific Emission Factor	0.00103	99.68	0.0033
7439965	Site-Specific Emission Factor	0.00677	99.68	0.0214
7439976	Site-Specific Emission Factor	0.00022	99.68	0.0007
7440020	Site-Specific Emission Factor	6E-05	99.68	0.0002
7440382	Site-Specific Emission Factor	3E-05	99.68	0.0001
7440439	Site-Specific Emission Factor	6E-05	99.68	0.0002
7440473	Site-Specific Emission Factor	0.00025	99.68	0.0008
7440484	Site-Specific Emission Factor	1E-05	99.68	0.0000
7782492	Site-Specific Emission Factor	5E-05	99.68	0.0002

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 15		Process Description: LADLE TREATMENT STATION 1	
SCC:	30301518	Stack:	58
	Primary Metal Production	Description:	BOF ROOF MONITORS
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Fugitive
	Hot Metal Desulfurization	Height:	0
Heat Content:	0	Diameter:	0
Sulfur Content:	0	Temperature:	0
Ash Content:	0	Velocity:	0
Throughput:	1728100.03 Tons	Gas Flow:	0
Material:	Steel	Input/Output:	Process Material Produced (Outut)

Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.0072	69.24	1.9136
PM25-FIL	Site-Specific Emission Factor	0.00417	69.24	1.1083
7439965	Site-Specific Emission Factor	9E-05	69.3	0.0239
7440020	Site-Specific Emission Factor	1E-05	69.3	0.0027
7440473	Site-Specific Emission Factor	1E-05	69.3	0.0027

Process ID: 16		Process Description: BOF LADLE DESLF STA 2&3	
SCC:	30301518	Stack:	73
	Primary Metal Production	Description:	BOF SLD 2&3 BAGHOUSE STK
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Vertical
	Hot Metal Desulfurization	Height:	40
Heat Content:	0	Diameter:	4
Sulfur Content:	0	Temperature:	113
Ash Content:	0	Velocity:	30.5
Throughput:	3271569 Tons	Gas Flow:	22996
Material:	Steel	Input/Output:	Process Material Used (Input)

Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.0006	0	0.9815
PM10-FIL	Site-Specific Emission Factor	0.0205	88	4.0240
PM25-FIL	Site-Specific Emission Factor	0.01187	88	2.3300
7439965	Site-Specific Emission Factor	0.00016	89.1	0.0285

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 17		Process Description: LADLE TREATMENT STA 4&5		
SCC:	30301518	Stack:	74	
	Primary Metal Production	Description:	BOF LTS 4&5 BGHSE STACK	
	Integrated Iron and Steel Manufacturing (See also 3-03-008 & 3-03-009)	Stack Type:	Vertical	
	Hot Metal Desulfurization	Height:	121	
Heat Content:	0	Diameter:	3	
Sulfur Content:	0	Temperature:	70	
Ash Content:	0	Velocity:	106.10	
Throughput:	4320253 Tons	Gas Flow:	44999	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.0103	0	22.2493
PM10-FIL	Site-Specific Emission Factor	0.07792	96.8	5.3861
PM25-FIL	Site-Specific Emission Factor	0.04511	96.8	3.1182
7439921	Site-Specific Emission Factor	0.00013	96.8	0.0090
7439965	Site-Specific Emission Factor	0.00067	96.8	0.0463
7439976	Site-Specific Emission Factor	1E-05	96.8	0.0007
7440020	Site-Specific Emission Factor	0.00021	96.8	0.0145
7440439	Site-Specific Emission Factor	3E-05	96.8	0.0021
7440473	Site-Specific Emission Factor	4E-05	96.8	0.0028
7440484	Site-Specific Emission Factor	3E-05	96.8	0.0021
7782492	Site-Specific Emission Factor	0.00023	96.8	0.0159
Process ID: 18		Process Description: VAC DEGASSER MATL HANDLNG		
SCC:	30301599	Stack:	75	
	Primary Metal Production	Description:	VACUUM DEGASSER BGHSE STK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Other Not Classified	Height:	48	
Heat Content:	0	Diameter:	8.80000019073486	
Sulfur Content:	0	Temperature:	100	
Ash Content:	0	Velocity:	13.70	
Throughput:	767433.99 Tons	Gas Flow:	49995	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.0006	97.99	0.0046
PM25-FIL	Site-Specific Emission Factor	0.00054	97.99	0.0042

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 19		Process Description: VACUUM DEGASSER PROCESS		
SCC:	30301599	Stack:	76	
	Primary Metal Production	Description:	VACUUM DEGASSER FLARE STK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Other Not Classified	Height:	120	
Heat Content:	0	Diameter:	1.71000003814697	
Sulfur Content:	0	Temperature:	115	
Ash Content:	0	Velocity:	29	
Throughput:	757078 Tons	Gas Flow:	3996	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	2.1	97.99	15.9781
PM10-FIL	Site-Specific Emission Factor	0.08	97.99	0.6087
PM25-FIL	Site-Specific Emission Factor	0.0713	97.99	0.5425
7439965	Site-Specific Emission Factor	0.0009	98.99	0.0034
7440020	Site-Specific Emission Factor	6E-05	98.99	0.0002
7440473	Site-Specific Emission Factor	8E-05	98.99	0.0003

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 20		Process Description: VACUUM DRYERS/PREHEATERS		
SCC:	30390003	Stack:	69	
	Primary Metal Production	Description:	VACUUM DEGASSER DRYER STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	140	
Heat Content:	0	Diameter:	5.59999990463257	
Sulfur Content:	0	Temperature:	115	
Ash Content:	0	Velocity:	2.70	
Throughput:	273.406 Million Cubic Feet	Gas Flow:	3990	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	11.4831
NH3	Site-Specific Emission Factor	3.2	0	0.4374
NOX	Site-Specific Emission Factor	100	0	13.6703
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.2597
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.2597
PM-CON	Site-Specific Emission Factor	5.7	0	0.7792
SO2	Site-Specific Emission Factor	0.64	0	0.0875
VOC	Site-Specific Emission Factor	5.5	0	0.7519
7439921	Site-Specific Emission Factor	0.0005	0	0.0001

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 21		Process Description: LADLE DRYING		
SCC:	30390003	Stack:	58	
	Primary Metal Production	Description:	BOF ROOF MONITORS	
	Fuel Fired Equipment	Stack Type:	Fugitive	
	Natural Gas: Process Heaters	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	93.608 Million Cubic Feet	Gas Flow:	0	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	3.9315
NH3	Site-Specific Emission Factor	3.2	0	0.1498
NOX	Site-Specific Emission Factor	100	0	4.6804
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.0889
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.0889
PM-CON	Site-Specific Emission Factor	5.7	0	0.2668
SO2	Site-Specific Emission Factor	0.64	0	0.0300
VOC	Site-Specific Emission Factor	5.5	0	0.2574
7439921	Site-Specific Emission Factor	0.0005	0	0.0000
Process ID: 22		Process Description: BOF AUXILIARIES & EROSION		
SCC:	30300699	Stack:	157	
	Primary Metal Production	Description:	BOF AUX & EROSION FUG	
	Ferroalloy, Open Furnace	Stack Type:	Fugitive	
	Other Not Classified	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	5236666.76 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.0077	0	20.1612
PM25-FIL	Site-Specific Emission Factor	0.00226	0	5.9174

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

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Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 016		Group Description:CASTER BUILDINGS		
Percent Quarterly Throughput				
Winter: 26	Spring: 26	Summer: 25	Fall: 23	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: CONTINUOUS CASTER #1		
SCC:	30301599	Stack:	80	
	Primary Metal Production	Description:	CONT CASTER 1 SPRAY STACK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Other Not Classified	Height:	138	
Heat Content:	0	Diameter:	7.94999980926514	
Sulfur Content:	0	Temperature:	200	
Ash Content:	0	Velocity:	33.60	
Throughput:	2457978 Tons	Gas Flow:	100072	
Material:	Steel	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NOX	Site-Specific Emission Factor	0.05	0	61.4494
PM10-FIL	Site-Specific Emission Factor	0.00016	0	0.1966
PM25-FIL	Site-Specific Emission Factor	5E-05	0	0.0614
VOC	Site-Specific Emission Factor	0.0165	0	20.2783
Process ID: 02		Process Description: CASTER #1 SLAB PROCESSING		
SCC:	30301599	Stack:	83	
	Primary Metal Production	Description:	CONT CASTER #1 ROOF MONTR	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Other Not Classified	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	2457978 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.0031	79.99	0.7624
PM25-FIL	Site-Specific Emission Factor	0.00276	79.99	0.6787
7439965	Site-Specific Emission Factor	1E-05	79.99	0.0025

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 03		Process Description: CONTINUOUS CASTER #2		
SCC:	30301599	Stack:	82	
	Primary Metal Production	Description:	CONT CASTER 2 SPRAY STACK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Other Not Classified	Height:	168	
Heat Content:	0	Diameter:	10.1800003051758	
Sulfur Content:	0	Temperature:	200	
Ash Content:	0	Velocity:	41	
Throughput:	2463366 Tons	Gas Flow:	200226	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NOX	Site-Specific Emission Factor	0.05	0	61.5842
PM10-FIL	Site-Specific Emission Factor	0.00016	0	0.1971
PM25-FIL	Site-Specific Emission Factor	5E-05	0	0.0616
VOC	Site-Specific Emission Factor	0.04379	0	53.9354
Process ID: 04		Process Description: CASTER #2 SLAB PROCESSING		
SCC:	30301599	Stack:	84	
	Primary Metal Production	Description:	CONT CASTER #2 ROOF MONTR	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Other Not Classified	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	2463366 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	Site-Specific Emission Factor	0.00276	79.99	0.6802
PM10-FIL	Site-Specific Emission Factor	0.0031	79.99	0.7640
7439965	Site-Specific Emission Factor	1E-05	79.99	0.0025

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: CASTER BLDGS MISC ACTIVTS		
SCC:	30301599	Stack:	81	
	Primary Metal Production	Description:	CASTERS 1&2 ROOF MONITOR	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Other Not Classified	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	4921344 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.0035	79.99	1.7233
PM25-FIL	Site-Specific Emission Factor	0.00312	79.99	1.5362
Group ID: 017		Group Description: HOT STRIP MILL DEPARTMENT		
Percent Quarterly Throughput				
Winter: 25	Spring: 28	Summer: 27	Fall: 20	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: GANTRY SLAB BURNER 6 BEDS		
SCC:	30301572	Stack:	89	
	Primary Metal Production	Description:	SLAB YD 2 HSM ROOF MON	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Scarfiging	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	0 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.09	74.25	0
PM25-FIL	Site-Specific Emission Factor	0.09	74.25	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: NORTH BURNING BED		
SCC:	30301572	Stack:	89	
	Primary Metal Production	Description:	SLAB YD 2 HSM ROOF MON	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Scarfig	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	0 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.09	74.25	0
PM25-FIL	Site-Specific Emission Factor	0.09	74.25	0
Process ID: 04		Process Description: SCARFING BED		
SCC:	30301572	Stack:	88	
	Primary Metal Production	Description:	SLAB YD 3 HSM ROOF MON	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Scarfig	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	188724 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.1	0	9.4362
PM25-FIL	Site-Specific Emission Factor	0.1	0	9.4362

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

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Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: HSM ROLLING PROCESS		
SCC:	30301573	Stack:	93	
	Primary Metal Production	Description:	HSM ROOF MONITOR	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Hot Rolling	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	3570138.65 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.017	94.05	1.8056
PM25-FIL	Site-Specific Emission Factor	0.01515	94.05	1.6091
VOC	Site-Specific Emission Factor	0.0725	74.25	33.3250

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 018		Group Description: HOT STRIP MILL FURN #1		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: NATURAL GAS		
SCC:	30390003	Stack:	90	
	Primary Metal Production	Description:	HSM FURNACE #1 (2 STACKS)	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	136	
Heat Content:	0	Diameter:	14.1000003814697	
Sulfur Content:	0	Temperature:	1200	
Ash Content:	0	Velocity:	23.20	
Throughput:	0 Million Cubic Feet	Gas Flow:	217354	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	7.37	0	0
NH3	Site-Specific Emission Factor	3.2	0	0
NOX	Site-Specific Emission Factor	140	0	0
PM10-FIL	Site-Specific Emission Factor	1.9	0	0
PM25-FIL	Site-Specific Emission Factor	1.9	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	0.64	0	0
VOC	Site-Specific Emission Factor	5.5	0	0
7439921	Site-Specific Emission Factor	0.0005	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	10200707	Stack:	90	
	Industrial	Description:	HSM FURNACE #1 (2 STACKS)	
	Process Gas	Stack Type:	Vertical	
	Coke Oven Gas	Height:	136	
Heat Content:	0	Diameter:	14.1000003814697	
Sulfur Content:	0	Temperature:	1200	
Ash Content:	0	Velocity:	23.20	
Throughput:	0 Million Cubic Feet	Gas Flow:	217354	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	0
NOX	Site-Specific Emission Factor	82.07	0	0
PM10-FIL	Site-Specific Emission Factor	4.35	0	0
PM25-FIL	Site-Specific Emission Factor	3.219	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	660.52	0	0
VOC	Site-Specific Emission Factor	1.2	0	0
Process ID: 05		Process Description: #6 FUEL OIL		
SCC:	10200402	Stack:	90	
	Industrial	Description:	HSM FURNACE #1 (2 STACKS)	
	Residual Oil	Stack Type:	Vertical	
	10-100 Million Btu/hr **	Height:	136	
Heat Content:	0	Diameter:	14.1000003814697	
Sulfur Content:	0	Temperature:	1200	
Ash Content:	0	Velocity:	23.20	
Throughput:	0 1000 Gallons	Gas Flow:	217354	
Material:	Residual Oil	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	EPA Emission Factor	5	0	0
NH3	EPA Emission Factor	0.8	0	0
NOX	EPA Emission Factor	55	0	0
PM10-FIL	EPA Emission Factor	7.17	0	0
PM25-FIL	EPA Emission Factor	4.67	0	0
PM-CON	EPA Emission Factor	1.5	0	0
SO2	EPA Emission Factor	157	0	0
VOC	EPA Emission Factor	1.28	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 06		Process Description: PROPANE		
SCC:	10201002	Stack:	90	
	Industrial	Description:	HSM FURNACE #1 (2 STACKS)	
	Liquified Petroleum Gas (LPG)	Stack Type:	Vertical	
	Propane	Height:	136	
Heat Content:	0	Diameter:	14.1000003814697	
Sulfur Content:	0	Temperature:	1200	
Ash Content:	0	Velocity:	23.20	
Throughput:	0 1000 Gallons	Gas Flow:	217354	
Material:	Propane	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	3.2	0	0
NOX	Site-Specific Emission Factor	19	0	0
PM10-FIL	Site-Specific Emission Factor	0.6	0	0
PM25-FIL	Site-Specific Emission Factor	0.6	0	0
PM-CON	Site-Specific Emission Factor	0.506	0	0
SO2	Site-Specific Emission Factor	86.5	0	0
VOC	Site-Specific Emission Factor	0.5	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 019		Group Description: HOT STRIP MILL FURN #2		
Percent Quarterly Throughput				
Winter: 25		Spring: 25		Summer: 25
				Fall: 25
Days Per Week: 7		Weeks Per Year: 52		Hours Per Day: 24
				Hours Per Year: 8760
Process ID: 01		Process Description: NATURAL GAS		
SCC:	30390003	Stack:	91	
	Primary Metal Production	Description:	HSM FURNACE #2 (2 STACKS)	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	136	
Heat Content:	0	Diameter:	14.1000003814697	
Sulfur Content:	0	Temperature:	1200	
Ash Content:	0	Velocity:	23.10	
Throughput:	0 Million Cubic Feet	Gas Flow:	216417	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	7.37	0	0
NH3	Site-Specific Emission Factor	3.2	0	0
NOX	Site-Specific Emission Factor	140	0	0
PM10-FIL	Site-Specific Emission Factor	1.9	0	0
PM25-FIL	Site-Specific Emission Factor	1.9	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	0.64	0	0
VOC	Site-Specific Emission Factor	5.5	0	0
7439921	Site-Specific Emission Factor	0.0005	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	10200707	Stack:	91	
	Industrial	Description:	HSM FURNACE #2 (2 STACKS)	
	Process Gas	Stack Type:	Vertical	
	Coke Oven Gas	Height:	136	
Heat Content:	0	Diameter:	14.1000003814697	
Sulfur Content:	0	Temperature:	1200	
Ash Content:	0	Velocity:	23.10	
Throughput:	0 Million Cubic Feet	Gas Flow:	216417	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	0
NOX	Site-Specific Emission Factor	82.07	0	0
PM10-FIL	Site-Specific Emission Factor	4.35	0	0
PM25-FIL	Site-Specific Emission Factor	3.219	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	660.52	0	0
VOC	Site-Specific Emission Factor	1.2	0	0
Process ID: 05		Process Description: #6 FUEL OIL		
SCC:	10200402	Stack:	91	
	Industrial	Description:	HSM FURNACE #2 (2 STACKS)	
	Residual Oil	Stack Type:	Vertical	
	10-100 Million Btu/hr **	Height:	136	
Heat Content:	0	Diameter:	14.1000003814697	
Sulfur Content:	0	Temperature:	1200	
Ash Content:	0	Velocity:	23.10	
Throughput:	0 1000 Gallons	Gas Flow:	216417	
Material:	Residual Oil	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	EPA Emission Factor	5	0	0
NH3	EPA Emission Factor	0.8	0	0
NOX	EPA Emission Factor	55	0	0
PM10-FIL	EPA Emission Factor	7.17	0	0
PM25-FIL	EPA Emission Factor	4.67	0	0
PM-CON	EPA Emission Factor	1.5	0	0
SO2	EPA Emission Factor	157	0	0
VOC	EPA Emission Factor	1.28	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 06		Process Description: PROPANE		
SCC:	30390002	Stack:	91	
	Primary Metal Production	Description:	HSM FURNACE #2 (2 STACKS)	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Residual Oil: Process Heaters	Height:	136	
Heat Content:	0	Diameter:	14.1000003814697	
Sulfur Content:	0	Temperature:	1200	
Ash Content:	0	Velocity:	23.10	
Throughput:	0 1000 Gallons	Gas Flow:	216417	
Material:	Propane	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Site-Specific Emission Factor	0	0	0
Group ID: 020		Group Description: HOT STRIP MILL FURN #3		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: NATURAL GAS		
SCC:	30390003	Stack:	92	
	Primary Metal Production	Description:	HSM FURNACE #3 (2 STACKS)	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	136	
Heat Content:	0	Diameter:	13.039999961853	
Sulfur Content:	0	Temperature:	1200	
Ash Content:	0	Velocity:	28.80	
Throughput:	0 Million Cubic Feet	Gas Flow:	230775	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	7.37	0	0
NH3	Site-Specific Emission Factor	3.2	0	0
NOX	Site-Specific Emission Factor	140	0	0
PM10-FIL	Site-Specific Emission Factor	1.9	0	0
PM25-FIL	Site-Specific Emission Factor	1.9	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	0.64	0	0
VOC	Site-Specific Emission Factor	5.5	0	0
7439921	Site-Specific Emission Factor	0.0005	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	10200707	Stack:	92	
	Industrial	Description:	HSM FURNACE #3 (2 STACKS)	
	Process Gas	Stack Type:	Vertical	
	Coke Oven Gas	Height:	136	
Heat Content:	0	Diameter:	13.039999961853	
Sulfur Content:	0	Temperature:	1200	
Ash Content:	0	Velocity:	28.80	
Throughput:	0 Million Cubic Feet	Gas Flow:	230775	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	0
NOX	Site-Specific Emission Factor	82.07	0	0
PM10-FIL	Site-Specific Emission Factor	4.35	0	0
PM25-FIL	Site-Specific Emission Factor	3.219	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	660.52	0	0
VOC	Site-Specific Emission Factor	1.2	0	0
Process ID: 05		Process Description: #6 FUEL OIL		
SCC:	30390002	Stack:	92	
	Primary Metal Production	Description:	HSM FURNACE #3 (2 STACKS)	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Residual Oil: Process Heaters	Height:	136	
Heat Content:	0	Diameter:	13.039999961853	
Sulfur Content:	0	Temperature:	1200	
Ash Content:	0	Velocity:	28.80	
Throughput:	0 1000 Gallons	Gas Flow:	230775	
Material:	Distillate Oil (Diesel)	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Site-Specific Emission Factor	0.28	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 06		Process Description: PROPANE		
SCC:	30390002	Stack:	92	
	Primary Metal Production	Description:	HSM FURNACE #3 (2 STACKS)	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Residual Oil: Process Heaters	Height:	136	
Heat Content:	0	Diameter:	13.039999961853	
Sulfur Content:	0	Temperature:	1200	
Ash Content:	0	Velocity:	28.80	
Throughput:	0 1000 Gallons	Gas Flow:	230775	
Material:	Propane	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Site-Specific Emission Factor	0.28	0	0
Group ID: 021		Group Description: COLD MILL DEPARTMENT		
Percent Quarterly Throughput				
Winter: 28	Spring: 22	Summer: 24	Fall: 26	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: CSM #1 PICKLE LINE		
SCC:	30301577	Stack:	95	
	Primary Metal Production	Description:	CSM PICKLE LINE 1 & 2 STK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Pickling: Continuous	Height:	65	
Heat Content:	0	Diameter:	10	
Sulfur Content:	0	Temperature:	90	
Ash Content:	0	Velocity:	24	
Throughput:	694326 Tons	Gas Flow:	113097	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	1.221	94.42	23.6528
PM25-FIL	Site-Specific Emission Factor	1.08828	94.42	21.0818
7647010	Site-Specific Emission Factor	0.00055	97.02	0.0057

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: CSM #2 PICKLE LINE		
SCC:	30301577	Stack:	95	
	Primary Metal Production	Description:	CSM PICKLE LINE 1 & 2 STK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Pickling: Continuous	Height:	65	
Heat Content:	0	Diameter:	10	
Sulfur Content:	0	Temperature:	90	
Ash Content:	0	Velocity:	24	
Throughput:	694496 Tons	Gas Flow:	113097	
Material:	Steel	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	1.221	94.42	23.6586
PM25-FIL	Site-Specific Emission Factor	1.08828	94.42	21.0870
7647010	Site-Specific Emission Factor	0.00055	97.02	0.0057
Process ID: 03		Process Description: 80" TANDEM MILL		
SCC:	30301573	Stack:	97	
	Primary Metal Production	Description:	CSM TANDEM MILL STK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Hot Rolling	Height:	80	
Heat Content:	0	Diameter:	8.80000019073486	
Sulfur Content:	0	Temperature:	90	
Ash Content:	0	Velocity:	65.80	
Throughput:	1076432 Tons	Gas Flow:	240122	
Material:	Steel	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.195	78.4	22.6697
PM25-FIL	Site-Specific Emission Factor	0.1738	78.4	20.2051
VOC	Site-Specific Emission Factor	0.12	49.98	32.3059

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 04		Process Description: BATCH ANNEAL FURNACES		
SCC:	30390003	Stack:	98	
	Primary Metal Production	Description:	BATCH ANNEAL ROOF MONITOR	
	Fuel Fired Equipment	Stack Type:	Fugitive	
	Natural Gas: Process Heaters	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	310.287 Million Cubic Feet	Gas Flow:	0	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	13.0321
NH3	Site-Specific Emission Factor	3.2	0	0.4965
NOX	Site-Specific Emission Factor	100	0	15.5144
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.2948
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.2948
PM-CON	Site-Specific Emission Factor	5.7	0	0.8843
SO2	Site-Specific Emission Factor	0.64	0	0.0993
VOC	Site-Specific Emission Factor	5.5	0	0.8533
7439921	Site-Specific Emission Factor	0.0005	0	0.0001

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: CHTL PREHEAT/HEAT/SOAK		
SCC:	30390003	Stack:	99	
	Primary Metal Production	Description:	CHTL HEAT AND SOAK STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	153	
Heat Content:	0	Diameter:	3.11999988555908	
Sulfur Content:	0	Temperature:	1650	
Ash Content:	0	Velocity:	39.20	
Throughput:	133.053 Million Cubic Feet	Gas Flow:	17982	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	5.5882
NH3	Site-Specific Emission Factor	3.2	0	0.2129
NOX	Site-Specific Emission Factor	100	0	6.6526
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.1264
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.1264
PM-CON	Site-Specific Emission Factor	5.7	0	0.3792
SO2	Site-Specific Emission Factor	0.64	0	0.0426
VOC	Site-Specific Emission Factor	5.5	0	0.3659
7439921	Site-Specific Emission Factor	0.0005	0	0.0000
Process ID: 06		Process Description: CHTL POST TREAT PICKLING		
SCC:	30301577	Stack:	100	
	Primary Metal Production	Description:	CHTL POST TREAT PICKL STK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Pickling: Continuous	Height:	65	
Heat Content:	0	Diameter:	2	
Sulfur Content:	0	Temperature:	70	
Ash Content:	0	Velocity:	42.40	
Throughput:	137989 Tons	Gas Flow:	7992	
Material:	Steel	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.075	94.62	0.2784
PM25-FIL	Site-Specific Emission Factor	0.06685	94.62	0.2481
7647010	Site-Specific Emission Factor	0.00055	0	0.0379

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 07		Process Description: CHTL REHEAT FURNACE		
SCC:	30390003	Stack:	101	
	Primary Metal Production	Description:	CHTL REHEAT FCE STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	153	
Heat Content:	0	Diameter:	4.8600001335144	
Sulfur Content:	0	Temperature:	1100	
Ash Content:	0	Velocity:	23.10	
Throughput:	26.9 Million Cubic Feet	Gas Flow:	25711	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	1.1298
NH3	Site-Specific Emission Factor	3.2	0	0.0430
NOX	Site-Specific Emission Factor	100	0	1.345
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.0256
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.0256
PM-CON	Site-Specific Emission Factor	5.7	0	0.0767
SO2	Site-Specific Emission Factor	0.64	0	0.0086
VOC	Site-Specific Emission Factor	5.5	0	0.0740
7439921	Site-Specific Emission Factor	0.0005	0	0.0000
Process ID: 08		Process Description: HDCL ELECTROLYTIC CLEAN		
SCC:	30301573	Stack:	102	
	Primary Metal Production	Description:	CSM HDCL FUME SCRUB STK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Hot Rolling	Height:	131	
Heat Content:	0	Diameter:	3.25	
Sulfur Content:	0	Temperature:	90	
Ash Content:	0	Velocity:	30.10	
Throughput:	252301 Tons	Gas Flow:	14982	
Material:	Steel	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0.00468	0	0.5904
PM10-FIL	Site-Specific Emission Factor	0.04175	88.2	0.6215
PM25-FIL	Site-Specific Emission Factor	0.03721	88.2	0.5539
VOC	Site-Specific Emission Factor	0.00406	0	0.5122

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 09		Process Description: HDCL RADIANT TUBE FURNACE		
SCC:	30390003	Stack:	103	
	Primary Metal Production	Description:	HDCL RADIANT FCE STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	132	
Heat Content:	0	Diameter:	8.78999996185303	
Sulfur Content:	0	Temperature:	600	
Ash Content:	0	Velocity:	4.10	
Throughput:	138.251 Million Cubic Feet	Gas Flow:	14928	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	5.8065
NH3	Site-Specific Emission Factor	3.2	0	0.2212
NOX	Site-Specific Emission Factor	100	90.49	0.6574
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.1313
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.1313
PM-CON	Site-Specific Emission Factor	5.7	0	0.3940
SO2	Site-Specific Emission Factor	0.64	0	0.0442
VOC	Site-Specific Emission Factor	5.5	0	0.3802
7439921	Site-Specific Emission Factor	0.0005	0	0.0000
Process ID: 11		Process Description: COLD SHEET TEMPER MILL		
SCC:	30301574	Stack:	104	
	Primary Metal Production	Description:	#1 SKIN PASS BLDG MON	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Cold Rolling	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	469894 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Site-Specific Emission Factor	0.009	19.8	1.6958

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 16		Process Description: HCL ACID STORAGE TANKS		
SCC:	30301575	Stack:	96	
	Primary Metal Production	Description:	HCL Storage Tank Vent	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Coating: Tin, Zinc, etc.	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1388822 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	0	0	0
7647010	Site-Specific Emission Factor	1E-05	0	0.0069
Process ID: 17		Process Description: SPACE HEATING		
SCC:	30390003	Stack:	109	
	Primary Metal Production	Description:	CSM 1&2 SHIP BLDG MON	
	Fuel Fired Equipment	Stack Type:	Fugitive	
	Natural Gas: Process Heaters	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1384.227 Million Cubic Feet	Gas Flow:	0	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	58.1375
NH3	Site-Specific Emission Factor	3.2	0	2.2148
NOX	Site-Specific Emission Factor	280	0	193.7918
PM10-FIL	Site-Specific Emission Factor	1.9	0	1.3150
PM25-FIL	Site-Specific Emission Factor	1.9	0	1.3150
PM-CON	Site-Specific Emission Factor	5.7	0	3.9450
SO2	Site-Specific Emission Factor	0.64	0	0.4430
VOC	Site-Specific Emission Factor	5.5	0	3.8066
7439921	Site-Specific Emission Factor	0.0005	0	0.0003

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 023		Group Description:SLAB MILL		
Percent Quarterly Throughput				
Winter: 26	Spring: 24	Summer: 26	Fall: 24	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 03		Process Description: SLAB YD 4 FURNACE 7&8		
SCC:	30390003	Stack:	117	
	Primary Metal Production	Description:	SLAB YARD 4 COMBUST FUG	
	Fuel Fired Equipment	Stack Type:	Fugitive	
	Natural Gas: Process Heaters	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	0 Million Cubic Feet	Gas Flow:	0	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	0
NH3	Site-Specific Emission Factor	3.2	0	0
NOX	Site-Specific Emission Factor	100	0	0
PM10-FIL	Site-Specific Emission Factor	1.9	0	0
PM25-FIL	Site-Specific Emission Factor	1.9	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	0.64	0	0
VOC	Site-Specific Emission Factor	5.5	0	0
7439921	Site-Specific Emission Factor	0.0005	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12, Burns Harbor, 46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 04		Process Description: SLAB YD 3 FURNACE 4&5&6		
SCC:	30390003	Stack:	119	
	Primary Metal Production	Description:	SLAB YD 3 ROOF MONITOR	
	Fuel Fired Equipment	Stack Type:	Fugitive	
	Natural Gas: Process Heaters	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	37.3758 Million Cubic Feet	Gas Flow:	0	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	1.5698
NH3	Site-Specific Emission Factor	3.2	0	0.0598
NOX	Site-Specific Emission Factor	100	0	1.8688
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.0355
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.0355
PM-CON	Site-Specific Emission Factor	5.7	0	0.1065
SO2	Site-Specific Emission Factor	0.64	0	0.0120
VOC	Site-Specific Emission Factor	5.5	0	0.1028
7439921	Site-Specific Emission Factor	0.0005	0	0.0000
Process ID: 06		Process Description: SLAB YD 3 SLAB GRINDER		
SCC:	30301572	Stack:	118	
	Primary Metal Production	Description:	SLAB GRINDER BAGHOUSE STK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Scarfiging	Height:	58	
Heat Content:	0	Diameter:	1.89999997615814	
Sulfur Content:	0	Temperature:	77	
Ash Content:	0	Velocity:	88.20	
Throughput:	34846 Tons	Gas Flow:	15004	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.93125	95.06	0.8015
PM25-FIL	Site-Specific Emission Factor	0.93125	95.06	0.8015

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 07		Process Description: SLAB YD 3 FLAME CUTTING		
SCC:	30301572	Stack:	119	
	Primary Metal Production	Description:	SLAB YD 3 ROOF MONITOR	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Scarfing	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	326092 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.0045	68.6	0.2304
PM25-FIL	Site-Specific Emission Factor	0.0045	68.6	0.2304
Process ID: 08		Process Description: SLAB YD 2 FURNACE 1&2&3		
SCC:	30390003	Stack:	120	
	Primary Metal Production	Description:	SLAB YD 2 ROOF MONITOR	
	Fuel Fired Equipment	Stack Type:	Fugitive	
	Natural Gas: Process Heaters	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1.8266 Million Cubic Feet	Gas Flow:	0	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	0.0767
NH3	Site-Specific Emission Factor	3.2	0	0.0029
NOX	Site-Specific Emission Factor	100	0	0.0913
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.0017
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.0017
PM-CON	Site-Specific Emission Factor	5.7	0	0.0052
SO2	Site-Specific Emission Factor	0.64	0	0.0006
VOC	Site-Specific Emission Factor	5.5	0	0.0050
7439921	Site-Specific Emission Factor	0.0005	0	0.0000

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 09		Process Description: SLAB YD 2 FLAME CUT BED 2		
SCC:	30301572	Stack:	120	
	Primary Metal Production	Description:	SLAB YD 2 ROOF MONITOR	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Scarfing	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	946252 Tons	Gas Flow:	0	
Material:	Steel	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.03	68.6	4.4568
PM25-FIL	Site-Specific Emission Factor	0.03	68.6	4.4568

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 024		Group Description:160" PLATE SLAB REHEAT #1		
Percent Quarterly Throughput				
Winter: 24	Spring: 27	Summer: 26	Fall: 23	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: NATURAL GAS		
SCC:	30390003	Stack:	112	
	Primary Metal Production	Description:	160 PM FCE1 & BOILER1 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	178	
Heat Content:	0	Diameter:	10.1800003051758	
Sulfur Content:	0	Temperature:	750	
Ash Content:	0	Velocity:	14.30	
Throughput:	833.66 Million Cubic Feet	Gas Flow:	69835	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	35.0137
NH3	Site-Specific Emission Factor	3.2	0	1.3339
NOX	Site-Specific Emission Factor	140	0	58.3562
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.7920
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.7920
PM-CON	Site-Specific Emission Factor	5.7	0	2.3759
SO2	Site-Specific Emission Factor	0.64	0	0.2668
VOC	Site-Specific Emission Factor	5.5	0	2.2926
7439921	Site-Specific Emission Factor	0.0005	0	0.0002

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	30390004	Stack:	112	
	Primary Metal Production	Description:	160 PM FCE1 & BOILER1 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Process Gas: Process Heaters	Height:	178	
Heat Content:	0	Diameter:	10.1800003051758	
Sulfur Content:	0	Temperature:	750	
Ash Content:	0	Velocity:	14.30	
Throughput:	0 Million Cubic Feet	Gas Flow:	69835	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	0
NOX	Site-Specific Emission Factor	80	0	0
PM10-FIL	Site-Specific Emission Factor	4.35	0	0
PM25-FIL	Site-Specific Emission Factor	3.219	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	660.52	0	0
VOC	Site-Specific Emission Factor	1.2	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: #6 FUEL OIL		
SCC:	30390002	Stack:	112	
	Primary Metal Production	Description:	160 PM FCE1 & BOILER1 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Residual Oil; Process Heaters	Height:	178	
Heat Content:	0	Diameter:	10.1800003051758	
Sulfur Content:	0	Temperature:	750	
Ash Content:	0	Velocity:	14.30	
Throughput:	0 1000 Gallons	Gas Flow:	69835	
Material:	Residual Oil	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	5	0	0
NH3	Site-Specific Emission Factor	0.8	0	0
NOX	Site-Specific Emission Factor	55	0	0
PM10-FIL	Site-Specific Emission Factor	10.8	0	0
PM25-FIL	Site-Specific Emission Factor	7.035	0	0
PM-CON	Site-Specific Emission Factor	1.5	0	0
SO2	Site-Specific Emission Factor	237	0	0
VOC	Site-Specific Emission Factor	0.28	0	0
7439921	Site-Specific Emission Factor	0.0015	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 025		Group Description: 160" PLATE SLAB REHEAT #2		
Percent Quarterly Throughput				
Winter: 60		Spring: 15		Summer: 13
Fall: 12				
Days Per Week: 7		Weeks Per Year: 52		Hours Per Day: 24
Hours Per Year: 8760				
Process ID: 01		Process Description: NATURAL GAS		
SCC:	30390003	Stack:	113	
	Primary Metal Production	Description:	160 PM FCE2 & BOILER3 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	178	
Heat Content:	0	Diameter:	10.5299997329712	
Sulfur Content:	0	Temperature:	790	
Ash Content:	0	Velocity:	13.40	
Throughput:	996.304 Million Cubic Feet	Gas Flow:	69835	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	41.8448
NH3	Site-Specific Emission Factor	3.2	0	1.5941
NOX	Site-Specific Emission Factor	140	0	69.7413
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.9465
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.9465
PM-CON	Site-Specific Emission Factor	5.7	0	2.8395
SO2	Site-Specific Emission Factor	0.64	0	0.3188
VOC	Site-Specific Emission Factor	5.5	0	2.7398
7439921	Site-Specific Emission Factor	0.0005	0	0.0002

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	30390004	Stack:	113	
	Primary Metal Production	Description:	160 PM FCE2 & BOILER3 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Process Gas: Process Heaters	Height:	178	
Heat Content:	0	Diameter:	10.5299997329712	
Sulfur Content:	0	Temperature:	790	
Ash Content:	0	Velocity:	13.40	
Throughput:	0.105 Million Cubic Feet	Gas Flow:	69835	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	0.0010
NOX	Site-Specific Emission Factor	80	0	0.0042
PM10-FIL	Site-Specific Emission Factor	4.35	0	0.0002
PM25-FIL	Site-Specific Emission Factor	3.219	0	0.0002
PM-CON	Site-Specific Emission Factor	5.7	0	0.0003
SO2	Site-Specific Emission Factor	660.52	0	0.0347
VOC	Site-Specific Emission Factor	1.2	0	0.0001

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: #6 FUEL OIL		
SCC:	30390002	Stack:	113	
	Primary Metal Production	Description:	160 PM FCE2 & BOILER3 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Residual Oil: Process Heaters	Height:	178	
Heat Content:	0	Diameter:	10.5299997329712	
Sulfur Content:	0	Temperature:	790	
Ash Content:	0	Velocity:	13.40	
Throughput:	0 1000 Gallons	Gas Flow:	69835	
Material:	Residual Oil	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	5	0	0
NH3	Site-Specific Emission Factor	0.8	0	0
NOX	Site-Specific Emission Factor	55	0	0
PM10-FIL	Site-Specific Emission Factor	10.8	0	0
PM25-FIL	Site-Specific Emission Factor	7.035	0	0
PM-CON	Site-Specific Emission Factor	1.5	0	0
SO2	Site-Specific Emission Factor	237	0	0
VOC	Site-Specific Emission Factor	0.28	0	0
7439921	Site-Specific Emission Factor	0.0015	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 027		Group Description: 160" PLATE IN&OUT FURN #5		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: NATURAL GAS		
SCC:	30390003	Stack:	110	
	Primary Metal Production	Description:	160 PM BATCH FCE 4&5 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	131	
Heat Content:	0	Diameter:	6.40000009536743	
Sulfur Content:	0	Temperature:	1650	
Ash Content:	0	Velocity:	40.90	
Throughput:	0 Million Cubic Feet	Gas Flow:	78945	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	0
NH3	Site-Specific Emission Factor	3.2	0	0
NOX	Site-Specific Emission Factor	100	0	0
PM10-FIL	Site-Specific Emission Factor	1.9	0	0
PM25-FIL	Site-Specific Emission Factor	1.9	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	0.64	0	0
VOC	Site-Specific Emission Factor	5.5	0	0
7439921	Site-Specific Emission Factor	0.0005	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	30390004	Stack:	110	
	Primary Metal Production	Description:	160 PM BATCH FCE 4&5 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Process Gas: Process Heaters	Height:	131	
Heat Content:	0	Diameter:	6.40000009536743	
Sulfur Content:	0	Temperature:	1650	
Ash Content:	0	Velocity:	40.90	
Throughput:	0 Million Cubic Feet	Gas Flow:	78945	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	0
NOX	Site-Specific Emission Factor	80	0	0
PM10-FIL	Site-Specific Emission Factor	4.35	0	0
PM25-FIL	Site-Specific Emission Factor	3.219	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	660.52	0	0
VOC	Site-Specific Emission Factor	1.2	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: FUEL OIL		
SCC:	30390002	Stack:	110	
	Primary Metal Production	Description:	160 PM BATCH FCE 4&5 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Residual Oil; Process Heaters	Height:	131	
Heat Content:	0	Diameter:	6.40000009536743	
Sulfur Content:	0	Temperature:	1650	
Ash Content:	0	Velocity:	40.90	
Throughput:	0 1000 Gallons	Gas Flow:	78945	
Material:	Residual Oil	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	5	0	0
NH3	Site-Specific Emission Factor	0.8	0	0
NOX	Site-Specific Emission Factor	55	0	0
PM10-FIL	Site-Specific Emission Factor	10.8	0	0
PM25-FIL	Site-Specific Emission Factor	7.035	0	0
PM-CON	Site-Specific Emission Factor	1.5	0	0
SO2	Site-Specific Emission Factor	237	0	0
VOC	Site-Specific Emission Factor	0.28	0	0
7439921	Site-Specific Emission Factor	0.0015	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 028		Group Description:160" PLATE IN&OUT FURN #6		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: NATURAL GAS		
SCC:	30390003	Stack:	111	
	Primary Metal Production	Description:	160 PM BATCH FCE 6&7 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	108	
Heat Content:	0	Diameter:	7.34000015258789	
Sulfur Content:	0	Temperature:	1650	
Ash Content:	0	Velocity:	32.80	
Throughput:	0 Million Cubic Feet	Gas Flow:	83274	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	0
NH3	Site-Specific Emission Factor	3.2	0	0
NOX	Site-Specific Emission Factor	100	0	0
PM10-FIL	Site-Specific Emission Factor	1.9	0	0
PM25-FIL	Site-Specific Emission Factor	1.9	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	0.64	0	0
VOC	Site-Specific Emission Factor	5.5	0	0
7439921	Site-Specific Emission Factor	0.0005	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	30390004	Stack:	111	
	Primary Metal Production	Description:	160 PM BATCH FCE 6&7 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Process Gas: Process Heaters	Height:	108	
Heat Content:	0	Diameter:	7.34000015258789	
Sulfur Content:	0	Temperature:	1650	
Ash Content:	0	Velocity:	32.80	
Throughput:	0 Million Cubic Feet	Gas Flow:	83274	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	0
NOX	Site-Specific Emission Factor	80	0	0
PM10-FIL	Site-Specific Emission Factor	4.35	0	0
PM25-FIL	Site-Specific Emission Factor	3.219	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	660.52	0	0
VOC	Site-Specific Emission Factor	1.2	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: FUEL OIL		
SCC:	30390002	Stack:	111	
	Primary Metal Production	Description:	160 PM BATCH FCE 6&7 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Residual Oil: Process Heaters	Height:	108	
Heat Content:	0	Diameter:	7.34000015258789	
Sulfur Content:	0	Temperature:	1650	
Ash Content:	0	Velocity:	32.80	
Throughput:	0 1000 Gallons	Gas Flow:	83274	
Material:	Residual Oil	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	5	0	0
NH3	Site-Specific Emission Factor	0.8	0	0
NOX	Site-Specific Emission Factor	55	0	0
PM10-FIL	Site-Specific Emission Factor	10.8	0	0
PM25-FIL	Site-Specific Emission Factor	7.035	0	0
PM-CON	Site-Specific Emission Factor	1.5	0	0
SO2	Site-Specific Emission Factor	237	0	0
VOC	Site-Specific Emission Factor	0.28	0	0
7439921	Site-Specific Emission Factor	0.0015	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 029		Group Description: 160" PLATE IN&OUT FURN #7		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: NATURAL GAS		
SCC:	30390003	Stack:	111	
	Primary Metal Production	Description:	160 PM BATCH FCE 6&7 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	108	
Heat Content:	0	Diameter:	7.34000015258789	
Sulfur Content:	0	Temperature:	1650	
Ash Content:	0	Velocity:	32.80	
Throughput:	0 Million Cubic Feet	Gas Flow:	83274	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	0
NH3	Site-Specific Emission Factor	3.2	0	0
NOX	Site-Specific Emission Factor	100	0	0
PM10-FIL	Site-Specific Emission Factor	1.9	0	0
PM25-FIL	Site-Specific Emission Factor	1.9	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	0.64	0	0
VOC	Site-Specific Emission Factor	5.5	0	0
7439921	Site-Specific Emission Factor	0.0005	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	30390004	Stack:	111	
	Primary Metal Production	Description:	160 PM BATCH FCE 6&7 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Process Gas: Process Heaters	Height:	108	
Heat Content:	0	Diameter:	7.34000015258789	
Sulfur Content:	0	Temperature:	1650	
Ash Content:	0	Velocity:	32.80	
Throughput:	0 Million Cubic Feet	Gas Flow:	83274	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	0
NOX	Site-Specific Emission Factor	80	0	0
PM10-FIL	Site-Specific Emission Factor	4.35	0	0
PM25-FIL	Site-Specific Emission Factor	3.219	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	660.52	0	0
VOC	Site-Specific Emission Factor	1.2	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: FUEL OIL	
SCC:	30390002	Stack:	111
	Primary Metal Production	Description:	160 PM BATCH FCE 6&7 STK
	Fuel Fired Equipment	Stack Type:	Vertical
	Residual Oil; Process Heaters	Height:	108
Heat Content:	0	Diameter:	7.34000015258789
Sulfur Content:	0	Temperature:	1650
Ash Content:	0	Velocity:	32.80
Throughput:	0 1000 Gallons	Gas Flow:	83274
Material:	Residual Oil	Input/Output:	Process Material Used (Input)

Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	5	0	0
NH3	Site-Specific Emission Factor	0.8	0	0
NOX	Site-Specific Emission Factor	55	0	0
PM10-FIL	Site-Specific Emission Factor	10.8	0	0
PM25-FIL	Site-Specific Emission Factor	7.035	0	0
PM-CON	Site-Specific Emission Factor	1.5	0	0
SO2	Site-Specific Emission Factor	237	0	0
VOC	Site-Specific Emission Factor	0.28	0	0
7439921	Site-Specific Emission Factor	0.0015	0	0

Group ID: 031

Group Description: 160" PLATE ROLLING

Percent Quarterly Throughput

Winter: 23 Spring: 29 Summer: 26 Fall: 22
Days Per Week: 7 Weeks Per Year: 52 Hours Per Day: 24 Hours Per Year: 8760

Process ID: 01		Process Description: 160 PLATE MILL ROLLING	
SCC:	30301573	Stack:	115
	Primary Metal Production	Description:	160 PM WEST ROOF MONITOR
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive
	Hot Rolling	Height:	0
Heat Content:	0	Diameter:	0
Sulfur Content:	0	Temperature:	0
Ash Content:	0	Velocity:	0
Throughput:	587278.87 Tons	Gas Flow:	0
Material:	Steel	Input/Output:	Process Material Produced (Outut)

Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Site-Specific Emission Factor	0.03	0	8.8092

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 032		Group Description:160" PLATE FURTHER PROCESS		
Percent Quarterly Throughput				
Winter: 21	Spring: 30	Summer: 27	Fall: 22	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: CAR BOTTOM FURNACE		
SCC:	30390003	Stack:	116	
	Primary Metal Production	Description:	160 PM HT TREAT ROOF MON	
	Fuel Fired Equipment	Stack Type:	Fugitive	
	Natural Gas: Process Heaters	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	4.384 Million Cubic Feet	Gas Flow:	0	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	0.1841
NH3	Site-Specific Emission Factor	3.2	0	0.0070
NOX	Site-Specific Emission Factor	100	0	0.2192
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.0042
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.0042
PM-CON	Site-Specific Emission Factor	5.7	0	0.0125
SO2	Site-Specific Emission Factor	0.64	0	0.0014
VOC	Site-Specific Emission Factor	5.5	0	0.0121
7439921	Site-Specific Emission Factor	0.0005	0	0.0000

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: HARDENING FURNACE		
SCC:	30390003	Stack:	116	
	Primary Metal Production	Description:	160 PM HT TREAT ROOF MON	
	Fuel Fired Equipment	Stack Type:	Fugitive	
	Natural Gas: Process Heaters	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	162.967 Million Cubic Feet	Gas Flow:	0	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	6.8446
NH3	Site-Specific Emission Factor	3.2	0	0.2607
NOX	Site-Specific Emission Factor	280	0	22.8154
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.1548
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.1548
PM-CON	Site-Specific Emission Factor	5.7	0	0.4645
SO2	Site-Specific Emission Factor	0.64	0	0.0521
VOC	Site-Specific Emission Factor	5.5	0	0.4482
7439921	Site-Specific Emission Factor	0.0005	0	0.0000

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 03		Process Description: TEMPERING FURNACE		
SCC:	30390003	Stack:	116	
	Primary Metal Production	Description:	160 PM HT TREAT ROOF MON	
	Fuel Fired Equipment	Stack Type:	Fugitive	
	Natural Gas: Process Heaters	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	125.332 Million Cubic Feet	Gas Flow:	0	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	5.2639
NH3	Site-Specific Emission Factor	3.2	0	0.2005
NOX	Site-Specific Emission Factor	280	0	17.5465
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.1191
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.1191
PM-CON	Site-Specific Emission Factor	5.7	0	0.3572
SO2	Site-Specific Emission Factor	0.64	0	0.0401
VOC	Site-Specific Emission Factor	5.5	0	0.3447
7439921	Site-Specific Emission Factor	0.0005	0	0.0000

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 033		Group Description: 110" PLATE CONT WALKING #1		
Percent Quarterly Throughput				
Winter: 20		Spring: 24		Summer: 29
				Fall: 27
Days Per Week: 7		Weeks Per Year: 52		Hours Per Day: 24
				Hours Per Year: 8760
Process ID: 01		Process Description: NATURAL GAS		
SCC:	30390003	Stack:	122	
	Primary Metal Production	Description:	110 PM FURNACE #1 & 2 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	179	
Heat Content:	0	Diameter:	14.5699996948242	
Sulfur Content:	0	Temperature:	1050	
Ash Content:	0	Velocity:	7	
Throughput:	737.558 Million Cubic Feet	Gas Flow:	70026	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	30.9774
NH3	Site-Specific Emission Factor	3.2	0	1.1801
NOX	Site-Specific Emission Factor	280	0	103.2581
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.7007
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.7007
PM-CON	Site-Specific Emission Factor	5.7	0	2.1020
SO2	Site-Specific Emission Factor	0.64	0	0.2360
VOC	Site-Specific Emission Factor	5.5	0	2.0283
7439921	Site-Specific Emission Factor	0.0005	0	0.0002

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	30390004	Stack:	122	
	Primary Metal Production	Description:	110 PM FURNACE #1 & 2 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Process Gas: Process Heaters	Height:	179	
Heat Content:	0	Diameter:	14.5699996948242	
Sulfur Content:	0	Temperature:	1050	
Ash Content:	0	Velocity:	7	
Throughput:	0 Million Cubic Feet	Gas Flow:	70026	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	0
NOX	Site-Specific Emission Factor	80	0	0
PM10-FIL	Site-Specific Emission Factor	4.35	0	0
PM25-FIL	Site-Specific Emission Factor	3.219	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	660.52	0	0
VOC	Site-Specific Emission Factor	1.2	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: #6 FUEL OIL		
SCC:	30390002	Stack:	122	
	Primary Metal Production	Description:	110 PM FURNACE #1 & 2 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Residual Oil; Process Heaters	Height:	179	
Heat Content:	0	Diameter:	14.5699996948242	
Sulfur Content:	0	Temperature:	1050	
Ash Content:	0	Velocity:	7	
Throughput:	0 1000 Gallons	Gas Flow:	70026	
Material:	Residual Oil	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	5	0	0
NH3	Site-Specific Emission Factor	0.8	0	0
NOX	Site-Specific Emission Factor	55	0	0
PM10-FIL	Site-Specific Emission Factor	10.8	0	0
PM25-FIL	Site-Specific Emission Factor	7.035	0	0
PM-CON	Site-Specific Emission Factor	1.5	0	0
SO2	Site-Specific Emission Factor	237	0	0
VOC	Site-Specific Emission Factor	0.28	0	0
7439921	Site-Specific Emission Factor	0.0015	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 034		Group Description: 110" PLATE CONT WALKING #2		
Percent Quarterly Throughput				
Winter: 21		Spring: 31		Summer: 21 Fall: 27
Days Per Week: 7		Weeks Per Year: 52		Hours Per Day: 24 Hours Per Year: 8760
Process ID: 01		Process Description: NATURAL GAS		
SCC:	30390003	Stack:	122	
	Primary Metal Production	Description:	110 PM FURNACE #1 & 2 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	179	
Heat Content:	0	Diameter:	14.5699996948242	
Sulfur Content:	0	Temperature:	1050	
Ash Content:	0	Velocity:	7	
Throughput:	680.742 Million Cubic Feet	Gas Flow:	70026	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	28.5912
NH3	Site-Specific Emission Factor	3.2	0	1.0892
NOX	Site-Specific Emission Factor	280	0	95.3039
PM10-FIL	Site-Specific Emission Factor	1.9	0	0.6467
PM25-FIL	Site-Specific Emission Factor	1.9	0	0.6467
PM-CON	Site-Specific Emission Factor	5.7	0	1.9401
SO2	Site-Specific Emission Factor	0.64	0	0.2178
VOC	Site-Specific Emission Factor	5.5	0	1.8720
7439921	Site-Specific Emission Factor	0.0005	0	0.0002

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: COKE OVEN GAS		
SCC:	30390004	Stack:	122	
	Primary Metal Production	Description:	110 PM FURNACE #1 & 2 STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Process Gas: Process Heaters	Height:	179	
Heat Content:	0	Diameter:	14.5699996948242	
Sulfur Content:	0	Temperature:	1050	
Ash Content:	0	Velocity:	7	
Throughput:	0 Million Cubic Feet	Gas Flow:	70026	
Material:	Coke Oven or Blast Furnace Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	18.4	0	0
NOX	Site-Specific Emission Factor	80	0	0
PM10-FIL	Site-Specific Emission Factor	4.35	0	0
PM25-FIL	Site-Specific Emission Factor	3.219	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	660.52	0	0
VOC	Site-Specific Emission Factor	1.2	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: #6 FUEL OIL	
SCC:	30390002	Stack:	122
	Primary Metal Production	Description:	110 PM FURNACE #1 & 2 STK
	Fuel Fired Equipment	Stack Type:	Vertical
	Residual Oil: Process Heaters	Height:	179
Heat Content:	0	Diameter:	14.5699996948242
Sulfur Content:	0	Temperature:	1050
Ash Content:	0	Velocity:	7
Throughput:	0 1000 Gallons	Gas Flow:	70026
Material:	Residual Oil	Input/Output:	Process Material Used (Input)

Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	2.8	0	0
NH3	Site-Specific Emission Factor	0.8	0	0
NOX	Site-Specific Emission Factor	55	0	0
PM10-FIL	Site-Specific Emission Factor	10.8	0	0
PM25-FIL	Site-Specific Emission Factor	7.035	0	0
PM-CON	Site-Specific Emission Factor	1.5	0	0
SO2	Site-Specific Emission Factor	158.60001	0	0
VOC	Site-Specific Emission Factor	0.28	0	0
7439921	Site-Specific Emission Factor	0.0015	0	0

Group ID: 035		Group Description: 110" PLATE MILL ROLLING	
Percent Quarterly Throughput			
Winter: 20	Spring: 28	Summer: 24	Fall: 28
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760

Process ID: 01		Process Description: ROLLING PROCESS	
SCC:	30301573	Stack:	123
	Primary Metal Production	Description:	110 PM ROOF MONITOR
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive
	Hot Rolling	Height:	0
Heat Content:	0	Diameter:	0
Sulfur Content:	0	Temperature:	0
Ash Content:	0	Velocity:	0
Throughput:	165398.96 Tons	Gas Flow:	0
Material:	Steel	Input/Output:	Process Material Produced (Output)

Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Site-Specific Emission Factor	0.03	0	2.4810

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 037		Group Description:110" PLATE NORMALIZING FNC		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: NATURAL GAS		
SCC:	30390003	Stack:	125	
	Primary Metal Production	Description:	110PM NORMALIZING FCE STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	154	
Heat Content:	0	Diameter:	5.44999980926514	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	10.20	
Throughput:	0 Million Cubic Feet	Gas Flow:	14277	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	84	0	0
NH3	Site-Specific Emission Factor	3.2	0	0
NOX	Site-Specific Emission Factor	100	0	0
PM10-FIL	Site-Specific Emission Factor	1.9	0	0
PM25-FIL	Site-Specific Emission Factor	1.9	0	0
PM-CON	Site-Specific Emission Factor	5.7	0	0
SO2	Site-Specific Emission Factor	0.64	0	0
VOC	Site-Specific Emission Factor	5.5	0	0
7439921	Site-Specific Emission Factor	0.0005	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 04		Process Description: #1/#2 FUEL OIL		
SCC:	30390001	Stack:	125	
	Primary Metal Production	Description:	110PM NORMALIZING FCE STK	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Distillate Oil (No. 2): Process Heaters	Height:	154	
Heat Content:	0	Diameter:	5.44999980926514	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	10.20	
Throughput:	0 1000 Gallons	Gas Flow:	14277	
Material:	Distillate Oil (No. 2)	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Site-Specific Emission Factor	5	0	0
NH3	Site-Specific Emission Factor	0.8	0	0
NOX	Site-Specific Emission Factor	20	0	0
PM10-FIL	Site-Specific Emission Factor	1	0	0
PM25-FIL	Site-Specific Emission Factor	1	0	0
PM-CON	Site-Specific Emission Factor	1	0	0
SO2	Site-Specific Emission Factor	14.2	0	0
VOC	Site-Specific Emission Factor	0.2	0	0
7439921	Site-Specific Emission Factor	0.0015	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 039		Group Description: Stacker Replacement Project		
Percent Quarterly Throughput				
Winter: 22	Spring: 24	Summer: 25	Fall: 29	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 01		Process Description: Portable Generators		
SCC:	20200102	Stack:	168	
	Industrial	Description:	Portable Generator	
	Distillate Oil (Diesel)	Stack Type:	Fugitive	
	Reciprocating	Height:	0	
Heat Content:	4.96	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	0 1000 Gallons	Gas Flow:	0	
Material:	Distillate Oil (Diesel)	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	EPA Emission Factor	130	0	0
NOX	EPA Emission Factor	604	0	0
PM10-FIL	EPA Emission Factor	42.5	0	0
PM25-FIL	EPA Emission Factor	42.5	0	0
SO2	EPA Emission Factor	39.7	0	0
VOC	EPA Emission Factor	49.3	0	0
Process ID: 02		Process Description: Vertical Stacker		
SCC:	30301599	Stack:	169a	
	Primary Metal Production	Description:	Vertical Stacker	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Other Not Classified	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	0 Tons	Gas Flow:	0	
Material:	Product	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0	0	0
PM25-FIL	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 03		Process Description: Hopper Conveyor		
SCC:	30301599	Stack:	170a	
	Primary Metal Production	Description:	Hopper Conveyor	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Other Not Classified	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	80209 Tons	Gas Flow:	0	
Material:	Product	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.00145	89.99	0.0058
PM25-FIL	Site-Specific Emission Factor	0.00022	89.99	0.0009

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 040		Group Description: HSM WALKING BEAM FURNACES		
Percent Quarterly Throughput				
Winter: 25		Spring: 24		Summer: 26 Fall: 25
Days Per Week: 7		Weeks Per Year: 52		Hours Per Day: 24 Hours Per Year: 8760
Process ID: 01		Process Description: WALKING BEAM FURNACE #1		
SCC:	30390003	Stack:	93	
	Primary Metal Production	Description:	HSM ROOF MONITOR	
	Fuel Fired Equipment	Stack Type:	Fugitive	
	Natural Gas: Process Heaters	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	2521.413 Million Cubic Feet	Gas Flow:	0	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	EPA Emission Factor	84	0	105.8993
NH3	EPA Emission Factor	3.2	0	4.0343
NOX	Site-Specific Emission Factor	87	0	109.6815
PM10-FIL	EPA Emission Factor	1.9	0	2.3953
PM25-FIL	EPA Emission Factor	1.9	0	2.3953
PM-CON	EPA Emission Factor	5.7	0	7.1860
SO2	Site-Specific Emission Factor	0.64	0	0.8069
VOC	EPA Emission Factor	5.5	0	6.9339
7439921	EPA Emission Factor	0.0005	0	0.0006

Facility Emission Detail

Cleveland-Cliffs Burns Harbor LLC

Plant ID:1812700001

Report for 2023

Location: 250 W US Hwy 12,Burns Harbor,46304

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: WALKING BEAM FURNACE #2		
SCC:	30390003	Stack:	93	
	Primary Metal Production	Description:	HSM ROOF MONITOR	
	Fuel Fired Equipment	Stack Type:	Fugitive	
	Natural Gas: Process Heaters	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	2531.78 Million Cubic Feet	Gas Flow:	0	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	EPA Emission Factor	84	0	106.3348
NH3	EPA Emission Factor	3.2	0	4.0508
NOX	Site-Specific Emission Factor	87	0	110.1324
PM10-FIL	EPA Emission Factor	1.9	0	2.4052
PM25-FIL	EPA Emission Factor	1.9	0	2.4052
PM-CON	EPA Emission Factor	5.7	0	7.2156
SO2	Site-Specific Emission Factor	0.64	0	0.8102
VOC	EPA Emission Factor	5.5	0	6.9624
7439921	EPA Emission Factor	0.0005	0	0.0006