



AES-01

AIR EMISSION STATEMENT CERTIFICATION

State Form 52052 (3-05)



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality
 Technical Support and Modeling Section - Mail Code 61-51
 100 N. Senate Avenue
 Indianapolis, IN 46204-2251
 Telephone: (317) 233-0178 or
 Toll Free: 1-800-451-6027 x30178 (within Indiana)
<http://www.emissions.IN.gov/>

Instructions:

- This is a required form for each air emission statement as well as any modifications.
- The certification supplied with a source's permit may be used in lieu of this form
- "Responsible Official" has the same meaning as defined in 326 IAC (34), and is usually designated in the General Information section of the permit.

Part A: Contact Information

Part A is intended to provide basic information about the company submitting an Air Emission Statement and information on the Air Emission Statement preparer in case there is a question about the report.

1. Company Name: Nucor Steel		2. Source ID: 1810700038	
3. Mailing Address:			
City:	State:	ZIP Code:	
4. Name of Emission Statement Preparer: Patrick		Gorman	
5. Title of Emission Statement Preparer(<i>optional</i>): Professional Engineer			
6. Telephone Number: (219)-836-1000		7. Facsimile Number:(<i>optional</i>):	
8. Electronic Mail Address (<i>optional</i>): patrick.gorman@eptconsultants.com			

Part B: Emissions Summary

Part B is intended to aid in the review of data and to collect information about billable hazardous air pollutants

Emissions Statement Pollutants (Plant Wide)	Tons Emitted
Ammonia	3.5517
Carbon Monoxide (CO)	1620.5383
Condensable Particulate Matter (PM-CON)	56.1336
Filterable Particulate Matter <10 Microns (PM10-FIL)	97.6227
Lead (PB)	0.4631
Nitrogen Dioxide (NO2)	355.7286
Primary PM2.5, Filterable Portion Only	77.7127
Sulfur Dioxide (SO2)	151.2168
Volatile Organic Compounds (VOC)	58.4593
Part 70 Permit Billable Hazardous Air Pollutants (Plant Wide)	Tons Emitted
Chlorine (CAS# 7782505)	0.0370
Hydrochloric Acid (CAS# 7647010)	4.4110
Mercury and Mercury Compounds (CAS#7439976 and TRI ID N458)	0.2785

Recieved
 JUN 27 2024
 State of Indiana

Part C: Signature of Responsible Official

I hereby certify that the information in this emission statement is accurate based on reasonable estimates using data available to the prepares and on a reasonable inquiry into records and persons responsible for the operation of the source, and is true, accurate, and complete.

Eric Radtke

Name of Responsible Official (*typed or printed*)

[Signature]

Signature of Responsible Official

VP & General Manager

Title of Responsible Official

6/26/2024

Date (*month, day, year*)

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Facility Emissions Overview		
Pollutant	Pollutant Description	Emissions (Tons)
NH3	Ammonia	3.5517
CO	Carbon Monoxide	1620.5382
7439921	Lead	0.4631
NOX	Nitrogen Oxides	355.7286
PM-CON	Primary PM Condensable Only (All Less Than 1 Micron)	56.1336
PM10-FIL	Primary PM10, Filterable Portion Only	97.6227
PM25-FIL	Primary PM2.5, Filterable Portion Only	77.7127
SO2	Sulfur Dioxide	151.2168
VOC	Volatile Organic Compounds	58.4593

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 001		Group Description: EAF, AOD, CASTER(98%)		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 50	Hours Per Day: 24	Hours Per Year: 7767	
Process ID: 01		Process Description: EAF, AOD, CASTER(98%)		
SCC:	30301544	Stack:	98	
	Primary Metal Production	Description:	MELT SHOP BAGHOUSE	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Electric Arc Furnace (EAF): Carbon Steel	Height:	94	
Heat Content:	1	Diameter:	22	
Sulfur Content:	0	Temperature:	250	
Ash Content:	0	Velocity:	32.67	
Throughput:	1966174 Tons	Gas Flow:	764178	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	Stack Test	0	99.84	21.4
7440020	Stack Test	0	99.84	0.0047
7440473	Stack Test	0	99.84	0.2738
VOC	Stack Test	0	0	19.03
TF	Stack Test	0	99.84	0.113
7440360	Stack Test	0	99.84	0.0078
7440484	Stack Test	0	99.84	0.1918
CO	CEMS - Continuous Emission Monitoring System	0	0	785.05
PM10-FIL	Stack Test	0	99.84	21.4
7439976	Stack Test	0	99.84	0.091
7440439	Stack Test	0	99.84	0.0217
PM-CON	Stack Test	0	0	21.4
7439965	Stack Test	0	99.84	1.1348
7440417	Stack Test	0	99.84	0.0002
7782492	Stack Test	0	99.84	0.0074
SO2	CEMS - Continuous Emission Monitoring System	0	0	25.63
7439921	Stack Test	0	99.84	0.2381
7440382	Stack Test	0	99.84	0.005
7723140	Stack Test	0	99.84	8.8501
NOX	CEMS - Continuous Emission Monitoring System	0	0	109.28

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 002		Group Description: TUNNEL FURNACE SYSTEM		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 50	Hours Per Day: 24	Hours Per Year: 8400	
Process ID: 01		Process Description: TUNNEL FURNACE #1 AND #2		
SCC:	30490033	Stack:	3	
	Secondary Metal Production	Description:	TUNNEL FURNACE SYSTEM 1	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Furnaces	Height:	100	
Heat Content:	1	Diameter:	4	
Sulfur Content:	0	Temperature:	1290	
Ash Content:	0	Velocity:	27.1	
Throughput:	535.45 Million Cubic Feet	Gas Flow:	20434	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NH3	EPA Emission Factor	3.2	0	0.8567
VOC	EPA Emission Factor	5.5	0	1.4725
PM-CON	EPA Emission Factor	5.7	0	1.5260
PM25-FIL	EPA Emission Factor	1.9	0	0.5087
NOX	State/Local Emission Factor	100	0	26.7725
CO	EPA Emission Factor	84	0	22.4889
SO2	EPA Emission Factor	0.6	0	0.1606
PM10-FIL	EPA Emission Factor	1.9	0	0.5087
7439921	EPA Emission Factor	0.0005	0	0.0001

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: TUNNEL FURNACE #1 SNUB		
SCC:	30490033	Stack:	4	
	Secondary Metal Production	Description:	TUNNEL FURNACE SYSTEM 2	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Furnaces	Height:	100	
Heat Content:	1	Diameter:	4	
Sulfur Content:	0	Temperature:	1290	
Ash Content:	0	Velocity:	28.2	
Throughput:	32.13 Million Cubic Feet	Gas Flow:	21326	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	EPA Emission Factor	1.9	0	0.0305
7439921	EPA Emission Factor	0.0005	0	0.0000
CO	EPA Emission Factor	84	0	1.3495
SO2	EPA Emission Factor	0.6	0	0.0096
PM-CON	EPA Emission Factor	5.7	0	0.0916
NH3	EPA Emission Factor	3.2	0	0.0514
VOC	EPA Emission Factor	5.5	0	0.0884
PM25-FIL	EPA Emission Factor	1.9	0	0.0305
NOX	Vender Emission Factor	190	0	3.0524

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 03		Process Description: TUNNEL FURNACE SHUTTLES		
SCC:	30490033	Stack:	5	
	Secondary Metal Production	Description:	TUNNEL FURNACE SYSTEM 3	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Furnaces	Height:	113	
Heat Content:	1	Diameter:	7.5	
Sulfur Content:	0	Temperature:	1050	
Ash Content:	0	Velocity:	27	
Throughput:	139.22 Million Cubic Feet	Gas Flow:	71823	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Emission Factor	1.9	0	0.1323
NOX	Vender Emission Factor	100	0	6.961
NH3	EPA Emission Factor	3.2	0	0.2228
VOC	EPA Emission Factor	5.5	0	0.3829
CO	EPA Emission Factor	84	0	5.8472
SO2	EPA Emission Factor	0.6	0	0.0418
PM10-FIL	EPA Emission Factor	1.9	0	0.1323
7439921	EPA Emission Factor	0.0005	0	0.0000
PM-CON	EPA Emission Factor	5.7	0	0.3968

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 003		Group Description: ANNEALING FURNACES		
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: 8616	
Process ID: 01		Process Description: ANNEALING FURNACES		
SCC:	30490033	Stack:	9	
	Secondary Metal Production	Description:	ANNEALING FURNACES	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Furnaces	Height:	77	
Heat Content:	1	Diameter:	7	
Sulfur Content:	0	Temperature:	95	
Ash Content:	0	Velocity:	36.8	
Throughput:	194.1 Million Cubic Feet	Gas Flow:	84713	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
SO2	Stack Test	0	0	0.004
PM10-FIL	Stack Test	0	0	0.33
PM-CON	EPA Emission Factor	5.7	0	0.5532
NOX	Stack Test	0	0	1.38
NH3	EPA Emission Factor	3.2	0	0.3106
PM25-FIL	Stack Test	0	0	0.33
7439921	EPA Emission Factor	0.0005	0	0.0000
CO	Stack Test	0	0	0.0005
VOC	Stack Test	0	0	0.004

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 004		Group Description:ACID REGENERATION #1		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 50	Hours Per Day: 24	Hours Per Year: 8301	
Process ID: 01		Process Description: ACID REGENERATION		
SCC:	30490033	Stack:	7	
	Secondary Metal Production	Description:	ACID REGEN. ROASTER #1	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Furnaces	Height:	103	
Heat Content:	1	Diameter:	2	
Sulfur Content:	0	Temperature:	185	
Ash Content:	0	Velocity:	22.64	
Throughput:	52.3 Million Cubic Feet	Gas Flow:	4273	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
7647010	Engineering Judgement	0	0	0.301
CO	EPA Emission Factor	84	0	2.1966
SO2	State/Local Emission Factor	0.6	0	0.0157
PM25-FIL	Stack Test	0	94.99	0.37
7439921	EPA Emission Factor	0.0005	0	0.0000
PM10-FIL	Stack Test	0	94.99	0.37
VOC	EPA Emission Factor	5.5	0	0.1438
PM-CON	EPA Emission Factor	5.7	94.99	0.0075
NOX	State/Local Emission Factor	100	0	2.615
7782505	Engineering Judgement	0	0	0.037
NH3	EPA Emission Factor	3.2	0	0.0837

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 006		Group Description: MELT SHOP ROOF MONITORS		
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: LADLE-TUNDISH PREHT, DRY		
SCC:	30490033	Stack:	11	
	Secondary Metal Production	Description:	MELT SHOP ROOF MONITOR 1-3	
	Fuel Fired Equipment	Stack Type:	Fugitive	
	Natural Gas: Furnaces	Height:	0	
Heat Content:	1	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	584.9 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)
PM-CON	EPA Emission Factor	5.7	0	1.6670
PM10-FIL	EPA Emission Factor	1.9	0	0.5557
7439921	EPA Emission Factor	0.0005	0	0.0001
NH3	EPA Emission Factor	3.2	0	0.9358
VOC	EPA Emission Factor	5.5	0	1.6085
PM25-FIL	EPA Emission Factor	1.9	0	0.5557
NOX	State/Local Emission Factor	100	0	29.245
CO	EPA Emission Factor	84	0	24.5658
SO2	EPA Emission Factor	0.6	0	0.1755

Facility Emission Detail

Nucor Steel

Plant ID: 1810700038

Report for 2023

Location: 4537 S Nucor Rd, Crawfordsville, 479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 03		Process Description: CASTER (FUGITIVES)	
SCC:	30301577	Stack:	11
	Primary Metal Production	Description:	MELT SHOP ROOF MONITOR 1-3
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive
	Pickling: Continuous	Height:	0
Heat Content:	1	Diameter:	0
Sulfur Content:	0	Temperature:	0
Ash Content:	0	Velocity:	0
Throughput:	1966174 Tons	Gas Flow:	0
Material:	Material	Input/Output:	Process Material Produced (Output)

Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	EPA Speciation Profile	0	0	0.41
PM-CON	Engineering Judgement	0	0	0.0000
PM25-FIL	EPA Speciation Profile	0	0	0.41

Process ID: 04		Process Description: EAF (FUGITIVES)	
SCC:	30301517	Stack:	11
	Primary Metal Production	Description:	MELT SHOP ROOF MONITOR 1-3
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive
	Hot Metal Transfer	Height:	0
Heat Content:	0	Diameter:	0
Sulfur Content:	0	Temperature:	0
Ash Content:	0	Velocity:	0
Throughput:	37957 Tons	Gas Flow:	0
Material:	Material	Input/Output:	Process Material Produced (Output)

Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	EPA Speciation Profile	0	0	1.9
CO	EPA Speciation Profile	0	0	0.39
SO2	EPA Speciation Profile	0	0	0.013
7439921	Stack Test	0	0	0.0037
PM-CON	EPA Speciation Profile	0	0	0.0013
NOX	EPA Speciation Profile	0	0	0.055
VOC	EPA Speciation Profile	0	0	0.016
PM25-FIL	EPA Speciation Profile	0	0	1.9

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: P36492		Process Description: LMF (FUGITIVES)		
SCC:	30301517	Stack:	11	
	Primary Metal Production	Description:	MELT SHOP ROOF MONITOR 1-3	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Hot Metal Transfer	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	1966174 Tons	Gas Flow:	0	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM-CON	Engineering Judgement	0	0	0.0180
PM25-FIL	EPA Speciation Profile	0	0	1.8
PM10-FIL	EPA Speciation Profile	0	0	1.8
7439921	Stack Test	0	0	0.0034

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 007		Group Description: GALVANIZING LINE		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 50	Hours Per Day: 24	Hours Per Year: 8040	
Process ID: 01		Process Description: GALVANIZING FURNACE		
SCC:	30490033	Stack:	15	
	Secondary Metal Production	Description:	GALVANIZING FURNACE-PREHT	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Furnaces	Height:	80	
Heat Content:	1	Diameter:	7	
Sulfur Content:	0	Temperature:	800	
Ash Content:	0	Velocity:	36.32	
Throughput:	378.68 Million Cubic Feet	Gas Flow:	83580	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NH3	EPA Emission Factor	3.2	0	0.6059
VOC	EPA Emission Factor	5.5	0	1.0414
PM25-FIL	EPA Emission Factor	1.9	0	0.3597
CO	EPA Emission Factor	84	0	15.9046
SO2	EPA Emission Factor	0.6	0	0.1136
PM10-FIL	EPA Emission Factor	1.9	0	0.3597
7439921	EPA Emission Factor	0.0005	0	0.0001
NOX	Engineering Judgement	0	0	15.38
PM-CON	EPA Emission Factor	5.7	0	1.0792

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: GALVANIZING LINE VENT 1		
SCC:	30490033	Stack:	16	
	Secondary Metal Production	Description:	GALVANIZING VENT #1	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Furnaces	Height:	70	
Heat Content:	1	Diameter:	7	
Sulfur Content:	0	Temperature:	95	
Ash Content:	0	Velocity:	35	
Throughput:	9.36 Million Cubic Feet	Gas Flow:	80713	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Emission Factor	1.9	0	0.0089
NOX	Vender Emission Factor	102	0	0.4774
CO	EPA Emission Factor	84	0	0.3931
SO2	EPA Emission Factor	0.6	0	0.0028
PM10-FIL	EPA Emission Factor	1.9	0	0.0089
7439921	EPA Emission Factor	0.0005	0	0.0000
PM-CON	EPA Emission Factor	5.7	0	0.0267
NH3	EPA Emission Factor	3.2	0	0.0150
VOC	EPA Emission Factor	5.5	0	0.0257

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 03		Process Description: GALVANIZING LINE VENT 2		
SCC:	30490033	Stack:	17	
	Secondary Metal Production	Description:	GALVANIZING VENT #2	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Furnaces	Height:	70	
Heat Content:	1	Diameter:	7	
Sulfur Content:	0	Temperature:	95	
Ash Content:	0	Velocity:	35	
Throughput:	9.36 Million Cubic Feet	Gas Flow:	80713	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NH3	EPA Emission Factor	3.2	0	0.0150
VOC	EPA Emission Factor	5.5	0	0.0257
PM-CON	EPA Emission Factor	5.7	0	0.0267
PM25-FIL	EPA Emission Factor	1.9	0	0.0089
NOX	Vender Emission Factor	102	0	0.4774
CO	EPA Emission Factor	84	0	0.3931
SO2	EPA Emission Factor	0.6	0	0.0028
PM10-FIL	EPA Emission Factor	1.9	0	0.0089
7439921	EPA Emission Factor	0.0005	0	0.0000

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 04		Process Description: GALVANIZING LINE VENT 3		
SCC:	30490033	Stack:	18	
	Secondary Metal Production	Description:	GALVANIZING VENT #3	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Furnaces	Height:	70	
Heat Content:	1	Diameter:	7	
Sulfur Content:	0	Temperature:	95	
Ash Content:	0	Velocity:	35	
Throughput:	9.36 Million Cubic Feet	Gas Flow:	80713	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	EPA Emission Factor	1.9	0	0.0089
7439921	EPA Emission Factor	0.0005	0	0.0000
CO	EPA Emission Factor	84	0	0.3931
SO2	EPA Emission Factor	0.6	0	0.0028
PM-CON	EPA Emission Factor	5.7	0	0.0267
NH3	EPA Emission Factor	3.2	0	0.0150
VOC	EPA Emission Factor	5.5	0	0.0257
PM25-FIL	EPA Emission Factor	1.9	0	0.0089
NOX	Vender Emission Factor	102	0	0.4774

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: GALVANIZING LINE VENT 4		
SCC:	30490033	Stack:	19	
	Secondary Metal Production	Description:	GALVANIZING VENT #4	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Furnaces	Height:	70	
Heat Content:	1	Diameter:	7	
Sulfur Content:	0	Temperature:	95	
Ash Content:	0	Velocity:	35	
Throughput:	9.36 Million Cubic Feet	Gas Flow:	80713	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Emission Factor	1.9	0	0.0089
NOX	Vender Emission Factor	102	0	0.4774
NH3	EPA Emission Factor	3.2	0	0.0150
VOC	EPA Emission Factor	5.5	0	0.0257
CO	EPA Emission Factor	84	0	0.3931
SO2	EPA Emission Factor	0.6	0	0.0028
PM10-FIL	EPA Emission Factor	1.9	0	0.0089
7439921	EPA Emission Factor	0.0005	0	0.0000
PM-CON	EPA Emission Factor	5.7	0	0.0267
Process ID: 06		Process Description: ALKALI CLEANING		
SCC:	30301574	Stack:	602	
	Primary Metal Production	Description:	ALKALI CLEANING	
	Integrated Iron and Steel Manufacturing	Stack Type:	Horizontal	
	Cold Rolling	Height:	35	
Heat Content:	0	Diameter:	1.67	
Sulfur Content:	0	Temperature:	150	
Ash Content:	0	Velocity:	51.74	
Throughput:	6800 Dry Standard Cubic Feet	Gas Flow:	6800	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	Manufacturer Specification	0	0	0.7
PM10-FIL	Manufacturer Specification	0	0	0.7

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: P37986		Process Description: NOx CONTROL DEVICE		
SCC:	30490033	Stack:	15	
	Secondary Metal Production	Description:	GALVANIZING FURNACE-PREHT	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Furnaces	Height:	80	
Heat Content:	1	Diameter:	7	
Sulfur Content:	0	Temperature:	800	
Ash Content:	0	Velocity:	36.32	
Throughput:	0 Tons	Gas Flow:	83580	
Material:	Ammonia	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NH3	Stack Test	0	0	0
Group ID: 008		Group Description: PICKLE LINE #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: 8434	
Process ID: 01		Process Description: PICKLE LINE #1		
SCC:	30301577	Stack:	24	
	Primary Metal Production	Description:	PICKLE LINE #1	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Pickling: Continuous	Height:	109	
Heat Content:	1	Diameter:	2.5	
Sulfur Content:	0	Temperature:	120	
Ash Content:	0	Velocity:	40.75	
Throughput:	877603 Tons	Gas Flow:	11938	
Material:	Material	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
7647010	Stack Test	0	0	0.55
PM10-FIL	Stack Test	0	94.99	1.54
PM25-FIL	Stack Test	0	94.99	1.54

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 009		Group Description: COLD REVERSING MILL #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: 8451	
Process ID: 01		Process Description: COLD REVERSING MILL #1		
SCC:	30301574	Stack:	25	
	Primary Metal Production	Description:	COLD REVERSING MILL #1	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Cold Rolling	Height:	110	
Heat Content:	1	Diameter:	4	
Sulfur Content:	0	Temperature:	108	
Ash Content:	0	Velocity:	112	
Throughput:	666621 Tons	Gas Flow:	84500	
Material:	Material	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	Stack Test	0	87.99	1.36
PM10-FIL	Stack Test	0	87.99	1.36

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 010		Group Description:SLAG PROCESSING-FUGITIVE		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 50	Hours Per Day: 24	Hours Per Year: 8400	
Process ID: 01		Process Description: STORAGE PILES, SLAG PROCESSING AND UNPAVED ROADS (FUGITIVE)		
SCC:	30388801	Stack:	15b	
	Primary Metal Production	Description:	SLAG PROCESSING-FUGITIVE	
	Fugitive Emissions	Stack Type:	Fugitive	
	Specify in Comments Field	Height:	0	
Heat Content:	1	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	175403 Tons	Gas Flow:	0	
Material:	Product	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
7439921	State/Local Speciation Profile	0	0	0.0000
7439965	State/Local Speciation Profile	0	0	0.064
PM25-FIL	EPA Speciation Profile	0	0	2.15
PM10-FIL	EPA Speciation Profile	0	0	2.15
7440473	State/Local Speciation Profile	0	0	0.009
Process ID: 03		Process Description: SLAG POT DUMP (FUGITIVE)		
SCC:	30301564	Stack:	15b	
	Primary Metal Production	Description:	SLAG PROCESSING-FUGITIVE	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Slag Tapping/Dumping	Height:	0	
Heat Content:	1	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	196500 Tons	Gas Flow:	0	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Speciation Profile	0	0	0.29
PM10-FIL	EPA Speciation Profile	0	0	0.29

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: EAF TO SLAG (FUGITIVE)		
SCC:	30301565	Stack:	15b	
	Primary Metal Production	Description:	SLAG PROCESSING-FUGITIVE	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Slag Processing	Height:	0	
Heat Content:	1	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	196500 Tons	Gas Flow:	0	
Material:	Material	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	EPA Speciation Profile	0	0	0.82
PM25-FIL	EPA Speciation Profile	0	0	0.82
Process ID: 06		Process Description: EAF DIG OUT (FUGITIVE)		
SCC:	30301564	Stack:	15b	
	Primary Metal Production	Description:	SLAG PROCESSING-FUGITIVE	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Slag Tapping/Dumping	Height:	0	
Heat Content:	1	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	196500 Tons	Gas Flow:	0	
Material:	Material	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Speciation Profile	0	0	0.29
PM10-FIL	EPA Speciation Profile	0	0	0.29

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 012		Group Description: LINDE GASES		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 50	Hours Per Day: 24	Hours Per Year: 8400	
Process ID: 01		Process Description: LINDE GASES BOILER #1		
SCC:	10200603	Stack:	21	
	Industrial	Description:	LINDE GASES BOILER #1	
	Natural Gas	Stack Type:	Vertical	
	< 10 Million Btu/hr	Height:	10	
Heat Content:	1	Diameter:	2	
Sulfur Content:	0	Temperature:	450	
Ash Content:	0	Velocity:	7.31	
Throughput:	3.79 Million Cubic Feet	Gas Flow:	1378	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Emission Factor	1.9	0	0.0036
PM-CON	EPA Emission Factor	5.7	0	0.0108
NOX	EPA Emission Factor	100	0	0.1895
7439921	EPA Emission Factor	0.0005	0	0.0000
NH3	EPA Emission Factor	3.2	0	0.0061
VOC	EPA Emission Factor	5.5	0	0.0104
CO	EPA Emission Factor	84	0	0.1592
PM10-FIL	EPA Emission Factor	1.9	0	0.0036
SO2	EPA Emission Factor	0.6	0	0.0011

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: LINDE GASES BOILER #2	
SCC:	10200603	Stack:	22
	Industrial	Description:	LINDE GASES BOILER #2
	Natural Gas	Stack Type:	Vertical
	< 10 Million Btu/hr	Height:	10
Heat Content:	1	Diameter:	2.8
Sulfur Content:	0	Temperature:	450
Ash Content:	0	Velocity:	9.15
Throughput:	8.11 Million Cubic Feet	Gas Flow:	3434
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	0.3406
PM-CON	EPA Emission Factor	5.7	0	0.0231
NH3	EPA Emission Factor	3.2	0	0.0130
SO2	EPA Emission Factor	0.6	0	0.0024
PM25-FIL	EPA Emission Factor	1.9	0	0.0077
PM10-FIL	EPA Emission Factor	1.9	0	0.0077
7439921	EPA Emission Factor	0.0005	0	0.0000
NOX	EPA Emission Factor	100	0	0.4055
VOC	EPA Emission Factor	5.5	0	0.0223

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 014		Group Description: EMERGENCY GENERATOR #1 (HMNONCONTACT)		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 1	Weeks Per Year: 1	Hours Per Day: 1	Hours Per Year: 4	
Process ID: 39		Process Description: EMERGENCY GEN., 2100 HP		
SCC:	20100102	Stack:	701	
	Electric Generation	Description:	EMERGENCY GENERATOR NO. 1 (2100 HP)	
	Distillate Oil (Diesel)	Stack Type:	Fugitive	
	Reciprocating	Height:	0	
Heat Content:	1	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	2100 Horsepower	Gas Flow:	0	
Material:	Distillate Oil (Diesel)	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NOX	EPA Speciation Profile	0	0	0.1
PM10-FIL	EPA Speciation Profile	0	0	0.003
CO	EPA Speciation Profile	0	0	0.023
VOC	EPA Speciation Profile	0	0	0.003
SO2	EPA Speciation Profile	0	0	0.014
PM25-FIL	EPA Speciation Profile	0	0	0.003

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 015		Group Description:EMERGENCY GENERATOR #2 (Meltshop CT)		
Percent Quarterly Throughput				
Winter: 25		Spring: 25		Summer: 25
Fall: 25				
Days Per Week: 1		Weeks Per Year: 1		Hours Per Day: 1
Hours Per Year: 3				
Process ID: 39		Process Description: EMERGENCY GEN., 2520HP		
SCC:	20100102	Stack:	702	
	Electric Generation	Description:	EMERGENCY GENERATOR NO. 2 (2520 HP)	
	Distillate Oil (Diesel)	Stack Type:	Fugitive	
	Reciprocating	Height:	0	
Heat Content:	1	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	2520 Horsepower	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 Speciation Profile	0	0	0.024
VOC	EPA Speciation Profile	0	0	0.003
NOX	EPA Speciation Profile	0	0	0.103
SO2	EPA Speciation Profile	0	0	0.014
PM25-FIL	EPA Speciation Profile	0	0	0.003
PM10-FIL	EPA Speciation Profile	0	0	0.003

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 016		Group Description: COLD MILL BOILER		
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: 2792	
Process ID: 01		Process Description: PICKLE LINE #2 (BOILER)		
SCC:	10200603	Stack:	2	
	Industrial	Description:	PICKLE LINE #2 BOILER	
	Natural Gas	Stack Type:	Vertical	
	< 10 Million Btu/hr	Height:	75	
Heat Content:	1	Diameter:	2.66	
Sulfur Content:	0	Temperature:	410	
Ash Content:	0	Velocity:	43.8	
Throughput:	235.3 Million Cubic Feet	Gas Flow:	14587	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
SO2	EPA Emission Factor	0.6	0	0.0706
VOC	Site-Specific Emission Factor	2.8	0	0.3294
7439921	EPA Emission Factor	0.0005	0	0.0001
NOX	Vender Emission Factor	200	0	23.53
NH3	EPA Emission Factor	3.2	0	0.3765
PM25-FIL	Site-Specific Emission Factor	3	0	0.3530
PM-CON	Engineering Judgement	0	0	0.18
PM10-FIL	Site-Specific Emission Factor	3	0	0.3530
CO	Site-Specific Emission Factor	35	0	4.1178

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 017		Group Description: PICKLE LINE #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: 5094				
Process ID: 01		Process Description: PICKLE LINE #2		
SCC:	30301577	Stack:	26	
	Primary Metal Production	Description:	PICKLE LINE #2	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Pickling: Continuous	Height:	109	
Heat Content:	1	Diameter:	2.49	
Sulfur Content:	0	Temperature:	187	
Ash Content:	0	Velocity:	30	
Throughput:	453491 Tons	Gas Flow:	8785	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Stack Test	0	0	0.28
7647010	Stack Test	0	0	3.56
PM25-FIL	Stack Test	0	0	0.28
Group ID: 018		Group Description: COLD REVERSING MILL #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: 4860				
Process ID: 01		Process Description: COLD REVERSING MILL #2		
SCC:	30301574	Stack:	27	
	Primary Metal Production	Description:	COLD REVERSING MILL #2	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Cold Rolling	Height:	120	
Heat Content:	1	Diameter:	4	
Sulfur Content:	0	Temperature:	108	
Ash Content:	0	Velocity:	112	
Throughput:	165951 Tons	Gas Flow:	84500	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	Stack Test	0	0	0.53
PM10-FIL	Stack Test	0	0	0.53

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 019		Group Description: COLD MILL BOILER		
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: COLD MILL BOILER		
SCC:	10200603	Stack:	23	
	Industrial	Description:	COLD MILL BOILER	
	Natural Gas	Stack Type:	Vertical	
	< 10 Million Btu/hr	Height:	15	
Heat Content:	1	Diameter:	1.17	
Sulfur Content:	0	Temperature:	350	
Ash Content:	0	Velocity:	30	
Throughput:	0 Million Cubic Feet	Gas Flow:	1935	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Emission Factor	1.9	0	0
CO	EPA Emission Factor	84	0	0
PM-CON	EPA Emission Factor	5.7	0	0
PM10-FIL	EPA Emission Factor	1.9	0	0
7439921	EPA Emission Factor	0.0005	0	0
NOX	EPA Emission Factor	100	0	0
VOC	EPA Emission Factor	5.5	0	0
NH3	EPA Emission Factor	3.2	0	0
SO2	EPA Emission Factor	0.6	0	0

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 01A		Group Description: EAF, AOD, CASTER(98%) #2		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 50	Hours Per Day: 24	Hours Per Year: 7764	
Process ID: 01		Process Description: EAF, AOD, CASTER(98%) #2		
SCC:	30301544	Stack:	99	
	Primary Metal Production	Description:	MELT SHOP BAGHOUSE #2	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Electric Arc Furnace (EAF): Carbon Steel	Height:	156	
Heat Content:	1	Diameter:	28.21	
Sulfur Content:	0	Temperature:	275	
Ash Content:	0	Velocity:	20.38	
Throughput:	1966174 Tons	Gas Flow:	764178	
Material:	Material	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
7439965	Stack Test	0	99.84	3.9763
PM25-FIL	Stack Test	0	99.84	26.12
7440020	Stack Test	0	99.84	0.092
7440473	Stack Test	0	99.84	0.2857
VOC	Stack Test	0	0	12.0342
7782492	Stack Test	0	99.84	0.0019
7440417	Stack Test	0	99.84	0.0002
SO2	CEMS - Continuous Emission Monitoring System	0	0	124.22
7439921	Stack Test	0	99.84	0.2174
7440382	Stack Test	0	99.84	0.0485
7723140	Stack Test	0	99.84	6.7213
NOX	CEMS - Continuous Emission Monitoring System	0	0	133.27
PM10-FIL	Stack Test	0	99.84	26.12
7439976	Stack Test	0	99.84	0.1875
7440439	Stack Test	0	99.84	0.0109
PM-CON	Stack Test	0	0	26.12
TF	Stack Test	0	99.84	0.0854
7440360	Stack Test	0	99.84	0.0202
7440484	Stack Test	0	99.84	0.3606
CO	CEMS - Continuous Emission Monitoring System	0	0	737.58

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 020		Group Description:HYDROGEN PLANT BOILER		
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: HYDROGEN PLANT BOILER		
SCC:	10200603	Stack:	30	
	Industrial	Description:	HYDROGEN PLANT BOILER	
	Natural Gas	Stack Type:	Vertical	
	< 10 Million Btu/hr	Height:	35	
Heat Content:	1	Diameter:	1.33	
Sulfur Content:	0	Temperature:	385	
Ash Content:	0	Velocity:	23.4	
Throughput:	0 Million Cubic Feet	Gas Flow:	1960	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NH3	EPA Emission Factor	3.2	0	0
SO2	EPA Emission Factor	0.6	0	0
NOX	EPA Emission Factor	100	0	0
VOC	EPA Emission Factor	5.5	0	0
CO	EPA Emission Factor	84	0	0
PM-CON	EPA Emission Factor	5.7	0	0
PM25-FIL	EPA Emission Factor	1.9	0	0
PM10-FIL	EPA Emission Factor	1.9	0	0
7439921	EPA Emission Factor	0.0005	0	0

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 021		Group Description:COOLING TOWER		
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: COOLING TOWER LAMINAR		
SCC:	38500101	Stack:	400-2	
	Cooling Tower	Description:	COOLING TOWER LAMINAR	
	Process Cooling	Stack Type:	Vertical	
	Mechanical Draft	Height:	18	
Heat Content:	1	Diameter:	14	
Sulfur Content:	0	Temperature:	105	
Ash Content:	0	Velocity:	35.2	
Throughput:	11600 Million Gallons	Gas Flow:	325000	
Material:	Cooling Water	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Speciation Profile	0	0	0.31
PM10-FIL	EPA Speciation Profile	0	0	0.31
Process ID: 02		Process Description: COOLING TWR HT MILL CONTC		
SCC:	38500101	Stack:	420-4	
	Cooling Tower	Description:	COOLING TOWER HOT MILL CONTACT	
	Process Cooling	Stack Type:	Vertical	
	Mechanical Draft	Height:	18	
Heat Content:	1	Diameter:	14	
Sulfur Content:	0	Temperature:	105	
Ash Content:	0	Velocity:	33.2	
Throughput:	25000 Million Gallons	Gas Flow:	307370	
Material:	Cooling Water	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Speciation Profile	0	0	0.79
PM10-FIL	EPA Speciation Profile	0	0	0.79

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 03		Process Description: COOLING TOWER CASTER		
SCC:	38500101	Stack:	440-3	
	Cooling Tower	Description:	COOLING TOWER CASTER	
	Process Cooling	Stack Type:	Vertical	
	Mechanical Draft	Height:	18	
Heat Content:	1	Diameter:	14	
Sulfur Content:	0	Temperature:	105	
Ash Content:	0	Velocity:	32.45	
Throughput:	10000 Million Gallons	Gas Flow:	300088	
Material:	Cooling Water	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	EPA Speciation Profile	0	0	1.26
PM25-FIL	EPA Speciation Profile	0	0	1.26
Process ID: 04		Process Description: COOLING TOWER MELT SHOP		
SCC:	38500101	Stack:	430-8	
	Cooling Tower	Description:	COOLING TOWER MELT SHOP	
	Process Cooling	Stack Type:	Vertical	
	Mechanical Draft	Height:	39	
Heat Content:	1	Diameter:	22	
Sulfur Content:	0	Temperature:	105	
Ash Content:	0	Velocity:	30.1	
Throughput:	60000 Million Gallons	Gas Flow:	686333	
Material:	Cooling Water	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Speciation Profile	0	0	1.86
PM10-FIL	EPA Speciation Profile	0	0	1.86

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 05		Process Description: COOLING TOWER CASTRIP CONTACT		
SCC:	38500101	Stack:	180-3	
	Cooling Tower	Description:	COOLING TOWER CASTRIP CONTACT	
	Process Cooling	Stack Type:	Vertical	
	Mechanical Draft	Height:	23	
Heat Content:	1	Diameter:	12	
Sulfur Content:	0	Temperature:	95	
Ash Content:	0	Velocity:	27.2	
Throughput:	12000 Million Gallons	Gas Flow:	184600	
Material:	Cooling Water	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	EPA Speciation Profile	0	0	0.29
PM25-FIL	EPA Speciation Profile	0	0	0.29
Process ID: 06		Process Description: COOLING TOWER LINDE		
SCC:	38500101	Stack:	480-2	
	Cooling Tower	Description:	COOLING TOWER BOC NCT	
	Process Cooling	Stack Type:	Vertical	
	Mechanical Draft	Height:	21	
Heat Content:	1	Diameter:	10	
Sulfur Content:	0	Temperature:	100	
Ash Content:	0	Velocity:	32.25	
Throughput:	3950 Million Gallons	Gas Flow:	152178	
Material:	Cooling Water	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Speciation Profile	0	0	0.17
PM10-FIL	EPA Speciation Profile	0	0	0.17

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 07		Process Description: COOLING TOWER GALV		
SCC:	38500101	Stack:	460-1	
	Cooling Tower	Description:	COOLING TOWER GALV	
	Process Cooling	Stack Type:	Vertical	
	Mechanical Draft	Height:	21	
Heat Content:	1	Diameter:	14	
Sulfur Content:	0	Temperature:	105	
Ash Content:	0	Velocity:	32.4	
Throughput:	6500 Million Gallons	Gas Flow:	299784	
Material:	Cooling Water	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Speciation Profile	0	0	0.21
PM10-FIL	EPA Speciation Profile	0	0	0.21
Process ID: 08		Process Description: COOLING TOWER COLD MILL		
SCC:	38500101	Stack:	470-2	
	Cooling Tower	Description:	COOLING TOWER COLD MILL	
	Process Cooling	Stack Type:	Vertical	
	Mechanical Draft	Height:	29	
Heat Content:	1	Diameter:	18	
Sulfur Content:	0	Temperature:	105	
Ash Content:	0	Velocity:	25.36	
Throughput:	15000 Million Gallons	Gas Flow:	387721	
Material:	Cooling Water	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	EPA Speciation Profile	0	0	0.41
PM25-FIL	EPA Speciation Profile	0	0	0.41

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 09		Process Description: COOLING TOWER ANNEAL		
SCC:	38500101	Stack:	450-1	
	Cooling Tower	Description:	COOLING TOWER ANNEAL	
	Process Cooling	Stack Type:	Vertical	
	Mechanical Draft	Height:	13	
Heat Content:	1	Diameter:	8	
Sulfur Content:	0	Temperature:	105	
Ash Content:	0	Velocity:	40.8	
Throughput:	5000 Million Gallons	Gas Flow:	122144	
Material:	Cooling Water	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Speciation Profile	0	0	0.16
PM10-FIL	EPA Speciation Profile	0	0	0.16
Process ID: 10		Process Description: COOLING TOWER VTD CONTACT		
SCC:	38500101	Stack:	502-3	
	Cooling Tower	Description:	COOLING TOWER VTD CONTACT	
	Process Cooling	Stack Type:	Vertical	
	Mechanical Draft	Height:	29	
Heat Content:	1	Diameter:	18	
Sulfur Content:	0	Temperature:	105	
Ash Content:	0	Velocity:	25.4	
Throughput:	8000 Million Gallons	Gas Flow:	387721	
Material:	Cooling Water	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	EPA Speciation Profile	0	0	0
PM25-FIL	EPA Speciation Profile	0	0	0

Facility Emission Detail

Nucor Steel

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Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 11		Process Description: COOLING TOWR HOT MILL NCT		
SCC:	38500101	Stack:	420-4	
	Cooling Tower	Description:	COOLING TOWER HOT MILL CONTACT	
	Process Cooling	Stack Type:	Vertical	
	Mechanical Draft	Height:	18	
Heat Content:	1	Diameter:	14	
Sulfur Content:	0	Temperature:	105	
Ash Content:	0	Velocity:	33.2	
Throughput:	25319 Million Gallons	Gas Flow:	307370	
Material:	Cooling Water	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Speciation Profile	0	0	0.68
PM10-FIL	EPA Speciation Profile	0	0	0.68
Process ID: 12		Process Description: COOLING TOWER CASTRIP NONCON		
SCC:	38500101	Stack:	410-3	
	Cooling Tower	Description:	COOLING TOWER HOT MILL NONCONTACT	
	Process Cooling	Stack Type:	Vertical	
	Mechanical Draft	Height:	40	
Heat Content:	1	Diameter:	20	
Sulfur Content:	0	Temperature:	105	
Ash Content:	0	Velocity:	33.16	
Throughput:	14400 Million Gallons	Gas Flow:	626045	
Material:	Cooling Water	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	EPA Speciation Profile	0	0	0.54
PM25-FIL	EPA Speciation Profile	0	0	0.54

Facility Emission Detail

Nucor Steel

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Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 13		Process Description: COOLING TOWER VTD NONCONTACT		
SCC:	38500101	Stack:	504-5	
	Cooling Tower	Description:	COOLING TOWER VTD NONCONTACT	
	Process Cooling	Stack Type:	Vertical	
	Mechanical Draft	Height:	29	
Heat Content:	0	Diameter:	18	
Sulfur Content:	0	Temperature:	105	
Ash Content:	0	Velocity:	25.4	
Throughput:	8000 Million Gallons	Gas Flow:	387811	
Material:	Cooling Water	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Speciation Profile	0	0	0
PM10-FIL	EPA Speciation Profile	0	0	0
Group ID: 022		Group Description: DUST SILOS		
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: 37		Process Description: DUST SILOS		
SCC:	30301599	Stack:	800	
	Primary Metal Production	Description:	STORAGE SILO	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Other Not Classified	Height:	0	
Heat Content:	1	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	45841 Each	Gas Flow:	0	
Material:	Material	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	Manufacturer Specification	0	0	3.3
PM10-FIL	Manufacturer Specification	0	0	3.3

Facility Emission Detail

Nucor Steel

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Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 023		Group Description:SPACE HEATERS		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 26	Hours Per Day: 24	Hours Per Year: 8760	
Process ID: 38		Process Description: SPACE HEATERS		
SCC:	10500106	Stack:	805	
	Space Heaters	Description:	SPACE HEATERS CRAWF	
	Industrial	Stack Type:	Fugitive	
	Natural Gas	Height:	0	
Heat Content:	1	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	5 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)
NH3	EPA Emission Factor	3.2	0	0.008
PM10-FIL	State/Local Emission Factor	1.9	0	0.0048
PM-CON	EPA Emission Factor	5.7	0	0.0142
PM25-FIL	State/Local Emission Factor	1.9	0	0.0048
NOX	State/Local Emission Factor	100	0	0.25
CO	State/Local Emission Factor	84	0	0.21
VOC	State/Local Emission Factor	5.5	0	0.0138
7439921	EPA Emission Factor	0.0005	0	0.0000
SO2	State/Local Emission Factor	0.6	0	0.0015

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 024		Group Description:EMERGENCY GENERATOR #3 (Cold Mill CT)		
Percent Quarterly Throughput				
Winter: 25		Spring: 25		Summer: 25
Fall: 25				
Days Per Week: 1		Weeks Per Year: 1		Hours Per Day: 1
Hours Per Year: 11				
Process ID: 39		Process Description: EMERGENCY GENERATOR 280HP		
SCC:	20100102	Stack:	703	
	Electric Generation	Description:	EMERGENCY GENERATOR NO. 3 (280 HP)	
	Distillate Oil (Diesel)	Stack Type:	Fugitive	
	Reciprocating	Height:	0	
Heat Content:	1	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	280 Horsepower	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 Speciation Profile	0	0	0.011
VOC	EPA Speciation Profile	0	0	0.004
NOX	EPA Speciation Profile	0	0	0.049
SO2	EPA Speciation Profile	0	0	0.003
PM25-FIL	EPA Speciation Profile	0	0	0.003
PM10-FIL	EPA Speciation Profile	0	0	0.003

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 025		Group Description: EMERGENCY GENERATOR #4 (Galv Line/Zinc Pot)		
Percent Quarterly Throughput				
Winter: 25		Spring: 25		Summer: 25 Fall: 25
Days Per Week: 1		Weeks Per Year: 1		Hours Per Day: 1 Hours Per Year: 17
Process ID: 39		Process Description: EMERGENCY GENERATOR 890HP		
SCC:	20100102	Stack:	704	
	Electric Generation	Description:	EMERGENCY GENERATOR NO. 4 (890 HP)	
	Distillate Oil (Diesel)	Stack Type:	Fugitive	
	Reciprocating	Height:	0	
Heat Content:	1	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	890 Horsepower	Gas Flow:	0	
Material:	Distillate Oil (Diesel)	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NOX	EPA Speciation Profile	0	0	0.185
VOC	EPA Speciation Profile	0	0	0.005
CO	EPA Speciation Profile	0	0	0.042
SO2	EPA Speciation Profile	0	0	0.025
PM10-FIL	EPA Speciation Profile	0	0	0.005
PM25-FIL	EPA Speciation Profile	0	0	0.005

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 026		Group Description:CASTRIP BAGHOUSE		
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: 1	
Process ID: 01		Process Description: CASTRIP BAGHOUSE		
SCC:	30301544	Stack:	901	
	Primary Metal Production	Description:	LMS	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Electric Arc Furnace (EAF): Carbon Steel	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	0 Tons	Gas Flow:	0	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Stack Test	0	0	0
7439976	Stack Test	0	0	0
PM25-FIL	Stack Test	0	0	0
7440417	Stack Test	0	0	0
NOX	Stack Test	0	0	0
7439921	Stack Test	0	0	0
CO	Stack Test	0	0	0
TF	Stack Test	0	0	0
SO2	Stack Test	0	0	0
VOC	State/Local Speciation Profile	0	0	0

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 027		Group Description: CASTRIP ROOF MONITOR		
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: 1	
Process ID: 01		Process Description: LADLE/TUNDISH PREHEATER		
SCC:	30490033	Stack:	900	
	Secondary Metal Production	Description:	LADLE/TUNDISH PREHEATER	
	Fuel Fired Equipment	Stack Type:	Fugitive	
	Natural Gas: Furnaces	Height:	0	
Heat Content:	1	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)
PM-CON	EPA Emission Factor	5.7	0	0
CO	EPA Emission Factor	84	0	0
SO2	EPA Emission Factor	0.6	0	0
PM25-FIL	EPA Emission Factor	1.9	0	0
NOX	State/Local Emission Factor	100	0	0
PM10-FIL	EPA Emission Factor	1.9	0	0
7439921	EPA Emission Factor	0.0005	0	0
NH3	EPA Emission Factor	3.2	0	0
VOC	EPA Emission Factor	5.5	0	0

Facility Emission Detail

Nucor Steel

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Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 02		Process Description: LMS FUGITIVE		
SCC:	30301517	Stack:	901	
	Primary Metal Production	Description:	LMS	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Hot Metal Transfer	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	0 Tons	Gas Flow:	0	
Material:	Material	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	State/Local Speciation Profile	0	0	0
VOC	State/Local Emission Factor	9E-05	0	0
PM25-FIL	State/Local Speciation Profile	0	0	0
SO2	State/Local Emission Factor	0.0021	0	0
NOX	State/Local Emission Factor	0.0019	0	0
CO	State/Local Emission Factor	0.00141	0	0
Process ID: 03		Process Description: CASTER		
SCC:	30301577	Stack:	902	
	Primary Metal Production	Description:	CASTER	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Pickling: Continuous	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	0 Tons	Gas Flow:	0	
Material:	Material	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	State/Local Speciation Profile	0	0	0
PM25-FIL	State/Local Speciation Profile	0	0	0

Facility Emission Detail

Nucor Steel

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Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Process ID: 04		Process Description: CASTRIP BIN VENTS		
SCC:	30114502	Stack:	800	
	Chemical Manufacturing	Description:	STORAGE SILO	
	Hydrazine Production	Stack Type:	Fugitive	
	Olin Raschig Process: Reactor	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	0 Dry Standard Cubic Feet	Gas Flow:	0	
Material:	Product	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Speciation Profile	0	0	0
PM10-FIL	EPA Speciation Profile	0	0	0
Group ID: 028		Group Description:EMERGENCY GENERATOR #7 (VTD)		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 1	Weeks Per Year: 1	Hours Per Day: 1	Hours Per Year: 15	
Process ID: 39		Process Description: VTD GENERATOR (166 HP)		
SCC:	20100102	Stack:	705	
	Electric Generation	Description:	EMERGENCY GENERATOR NO. 7 (166 HP)	
	Distillate Oil (Diesel)	Stack Type:	Fugitive	
	Reciprocating	Height:	0	
Heat Content:	1	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	166 Horsepower	Gas Flow:	0	
Material:	Distillate Oil (Diesel)	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	EPA Speciation Profile	0	0	0.0011
PM25-FIL	EPA Speciation Profile	0	0	0.0011
NOX	EPA Speciation Profile	0	0	0.015
CO	EPA Speciation Profile	0	0	0.0032
VOC	EPA Speciation Profile	0	0	0.001
SO2	EPA Speciation Profile	0	0	0.001

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 029		Group Description: VACUUM TANK DEGASSER		
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: 1	
Process ID: 39		Process Description: VACUUM TANK DEGASSER		
SCC:	30301544	Stack:	500	
	Primary Metal Production	Description:	VACUUM TANK DEGASSER	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Electric Arc Furnace (EAF): Carbon Steel	Height:	150	
Heat Content:	1	Diameter:	5.08	
Sulfur Content:	0	Temperature:	1832	
Ash Content:	0	Velocity:	65.6	
Throughput:	0 Tons	Gas Flow:	79963	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	State/Local Speciation Profile	0	0	0
VOC	State/Local Emission Factor	0.005	0	0
PM25-FIL	State/Local Speciation Profile	0	0	0
PM-CON	Stack Test	0	0	0
SO2	State/Local Emission Factor	0.022	0	0
NOX	State/Local Emission Factor	0.0055	0	0
CO	State/Local Emission Factor	0.075	0	0

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 030		Group Description: VACUUM TANK DEGASSER BLR		
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: 1	
Process ID: 01		Process Description: VACUUM TANK DEGASSER BLR		
SCC:	10200603	Stack:	501	
	Industrial	Description:	VACUUM TANK DEGASSER BOILER	
	Natural Gas	Stack Type:	Vertical	
	< 10 Million Btu/hr	Height:	100	
Heat Content:	1	Diameter:	4	
Sulfur Content:	0	Temperature:	579	
Ash Content:	0	Velocity:	39.92	
Throughput:	0 Million Cubic Feet	Gas Flow:	30144	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
SO2	EPA Emission Factor	0.6	0	0
NH3	EPA Emission Factor	3.2	0	0
7439921	EPA Emission Factor	0.0005	0	0
PM-CON	EPA Emission Factor	5.7	0	0
VOC	State/Local Emission Factor	2.6	0	0
PM25-FIL	EPA Emission Factor	1.9	0	0
NOX	State/Local Emission Factor	35	0	0
PM10-FIL	EPA Emission Factor	1.9	0	0
CO	State/Local Emission Factor	61	0	0

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 031		Group Description:HM ANNEALING FURNACES		
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: HM ANNEALING FURNACES		
SCC:	30490033	Stack:	36	
	Secondary Metal Production	Description:	BOX ANNEALING FURNACES	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Furnaces	Height:	75	
Heat Content:	1	Diameter:	7.05	
Sulfur Content:	0	Temperature:	95	
Ash Content:	0	Velocity:	39.6	
Throughput:	0 Million Cubic Feet	Gas Flow:	93007	
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	0
SO2	EPA Emission Factor	0.6	0	0
NH3	EPA Emission Factor	3.2	0	0
VOC	EPA Emission Factor	5.5	0	0
PM-CON	EPA Emission Factor	5.7	0	0
NOX	State/Local Emission Factor	98	0	0
PM25-FIL	EPA Emission Factor	1.9	0	0
PM10-FIL	EPA Emission Factor	1.9	0	0
7439921	EPA Emission Factor	0.0005	0	0

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 032		Group Description: EMERGENCY GENERATOR #6 (Guardshack)		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 2	Weeks Per Year: 1	Hours Per Day: 13	Hours Per Year: 11	
Process ID: 01		Process Description: Emergency Generator #6		
SCC:	20100102	Stack:	706	
	Electric Generation	Description:	EMERGENCY GENERATOR NO. 6 (67 HP)	
	Distillate Oil (Diesel)	Stack Type:	Fugitive	
	Reciprocating	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	67 Horsepower	Gas Flow:	0	
Material:	Distillate Oil (Diesel)	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
SO2	EPA Speciation Profile	0	0	0.005
NOX	EPA Speciation Profile	0	0	0.081
PM25-FIL	EPA Speciation Profile	0	0	0.006
CO	EPA Speciation Profile	0	0	0.017
VOC	EPA Speciation Profile	0	0	0.006
PM10-FIL	EPA Speciation Profile	0	0	0.006

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 033		Group Description:SPACE HEATERS-STEEL TECH		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 1	Weeks Per Year: 1	Hours Per Day: 1	Hours Per Year: 40	
Process ID: 01		Process Description: Space Heaters		
SCC:	10500106	Stack:	707	
	Space Heaters	Description:	SPACE HEATERS STEEL TECH	
	Industrial	Stack Type:	Fugitive	
	Natural Gas	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	13.38 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)
PM10-FIL	EPA Emission Factor	3	0	0.0201
7439921	EPA Emission Factor	0.0005	0	0.0000
CO	EPA Emission Factor	84	0	0.5620
PM-CON	EPA Emission Factor	5.7	0	0.0381
NOX	EPA Emission Factor	100	0	0.669
VOC	EPA Emission Factor	5.5	0	0.0368
PM25-FIL	EPA Emission Factor	3	0	0.0201
NH3	EPA Emission Factor	3.2	0	0.0214
SO2	EPA Emission Factor	0.6	0	0.0040

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 034		Group Description: CASTER STEAM VENT		
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: 7502	
Process ID: 01		Process Description: CASTER STEAM VENT		
SCC:	30301544	Stack:	307	
	Primary Metal Production	Description:	CASTER STEAM VENT	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Electric Arc Furnace (EAF): Carbon Steel	Height:	125	
Heat Content:	0	Diameter:	5.87	
Sulfur Content:	0	Temperature:	136	
Ash Content:	0	Velocity:	68	
Throughput:	1966174 Tons	Gas Flow:	110415	
Material:	Material	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	Stack Test	0	0	3.04
SO2	Stack Test	0	0	0.68
CO	Stack Test	0	0	18.08
PM10-FIL	Stack Test	0	0	3.04
PM-CON	Stack Test	0	0	2.9
NOX	Stack Test	0	0	0.23
VOC	Stack Test	0	0	7.78

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 038		Group Description: DRI HANDLING AND STORAGE		
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: DRI HANDLING AND STORAGE		
SCC:	30301599	Stack:	DRI HA	
	Primary Metal Production	Description:	DRI HANDLING	
	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	Engineering Judgement	0	80	0
PM25-FIL	Engineering Judgement	0	80	0

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 039		Group Description: EMERGENCY GENERATOR #5 (Lipseal)		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 1	Weeks Per Year: 1	Hours Per Day: 1	Hours Per Year: 3	
Process ID: P38919		Process Description: EMERGENCY GENERATOR 30HP		
SCC:	20100102	Stack:	707a	
	Electric Generation	Description:	EMERGENCY GENERATOR NO. 5 (30 HP)	
	Distillate Oil (Diesel)	Stack Type:	Fugitive	
	Reciprocating	Height:	0	
Heat Content:	1	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	30 Horsepower	Gas Flow:	0	
Material:	Distillate Oil (Diesel)	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NOX	EPA Speciation Profile	0	0	0.0013
PM10-FIL	EPA Speciation Profile	0	0	0.0001
CO	EPA Speciation Profile	0	0	0.003
SO2	EPA Speciation Profile	0	0	0.0001
VOC	EPA Speciation Profile	0	0	0.0001
PM25-FIL	EPA Speciation Profile	0	0	0.0001

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 35		Group Description:PAVED/UNPAVED ROADWAYS-FUGITIVE		
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: PAVED ROADWAYS (FUGITIVE)		
SCC:	30501050	Stack:	16b	
	Mineral Products	Description:	PAVED ROADWAYS-FUGITIVE	
	Coal Mining, Cleaning, and Material Handling (See 305310)	Stack Type:	Fugitive	
	Vehicle Traffic: Light/Medium Vehicles	Height:	0	
Heat Content:	1	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	123072 Miles	Gas Flow:	0	
Material:	Vehicle	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	EPA Speciation Profile	0	0	0.24
PM10-FIL	EPA Speciation Profile	0	0	0.96
Process ID: 02		Process Description: UNPAVED ROADS		
SCC:	30501050	Stack:	150	
	Mineral Products	Description:	UNPAVED ROADS-FUGITIVE	
	Coal Mining, Cleaning, and Material Handling (See 305310)	Stack Type:	Fugitive	
	Vehicle Traffic: Light/Medium Vehicles	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	190803 Miles	Gas Flow:	0	
Material:	Vehicle	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	EPA Speciation Profile	0	0	21.32
PM25-FIL	EPA Speciation Profile	0	0	2.13

Facility Emission Detail

Nucor Steel

Plant ID:1810700038

Report for 2023

Location: 4537 S Nucor Rd,Crawfordsville,479339450

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 36		Group Description:ROLLING OIL FUGITIVES		
Percent Quarterly Throughput				
Winter: 25		Spring: 25		Summer: 25
				Fall: 25
Days Per Week: 7		Weeks Per Year: 50		Hours Per Day: 24
				Hours Per Year: 8760
Process ID: 01		Process Description: Combine Entire Mill Rolling Oil Fugitives		
SCC:	30301574	Stack:	36b	
	Primary Metal Production	Description:	ROLLING OIL FUGITIVES	
	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:	112941 Gallons	Gas Flow:	0	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Material Balance	0	0	14.32
Group ID: 37		Group Description:TENSION LEVELER		
Percent Quarterly Throughput				
Winter: 25		Spring: 25		Summer: 25
				Fall: 25
Days Per Week: 7		Weeks Per Year: 50		Hours Per Day: 24
				Hours Per Year: 1
Process ID: 01		Process Description: TENSION LEVELER		
SCC:	30301599	Stack:	37	
	Primary Metal Production	Description:	TENSION LEVELER STACK	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Other Not Classified	Height:	17	
Heat Content:	0	Diameter:	2	
Sulfur Content:	0	Temperature:	75	
Ash Content:	0	Velocity:	62.94	
Throughput:	0 Tons	Gas Flow:	11864	
Material:	Product	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	Stack Test	0	0	0
PM10-FIL	Stack Test	0	0	0