



Long Products Group
Structural and Rail Division

2601 South County Road 700 East
Columbia City, Indiana 46725
(260) 625-8100
(260) 625-8950 fax
www.steeldynamics.com

Certified Mail # 7020 0090 0002 1359 0158

June 24, 2024

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

Re: ***Steel Dynamics, Inc. – Structural and Rail Division, Columbia City, IN
Title V Annual Emission Statement
Source ID No. 183-00030***

To Whom It May Concern:

This letter transmits the 2023 Annual Emission Statement (AES) for Steel Dynamics, Inc.– Structural and Rail Division (SDI - SRD) facility located at 2601 South County Road 700 East near Columbia City, Indiana. This information is being submitted in accordance with Condition C.17 of Title V Permit No. 183-46964-00030 issued to SDI. Attachments include a printout of data entered into the Emissions Inventory Tracking System (EMITS) and the signed certification form for the 2023 AES Submittal.

If you have any questions or require additional information, please contact the undersigned at (260) 625-8484 or Ms. Kayla Reiser of Trinity Consultants at (317) 451-8100.

Sincerely,
Steel Dynamics, Inc.

A handwritten signature in black ink, appearing to read "Eric McClees".

Eric McClees
Environmental Engineer

A handwritten signature in black ink, appearing to read "Forrest France".

Forrest France
Environmental Engineer

Enclosures



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: Steel Dynamics, Inc. (SDI), Structural		2. Source ID: 1818300030	
3. Mailing Address: 2601 South County Road 700 East			
City: Columbia City	State: IN	ZIP Code: 46725	
4. Name of Emission Statement Preparer: Kayla		Reiser	
5. Title of Emission Statement Preparer (optional):		Consultant	
6. Telephone Number: (317)-451-8105		7. Facsimile Number (optional):	
8. Electronic Mail Address (optional): kreiser@trinityconsultants.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
Carbon Monoxide (CO)	1075.0165
Condensable Particulate Matter (PM-CON)	52.1311
Filterable Particulate Matter <10 Microns (PM10-FIL)	69.6244
Lead (PB)	0.1113
Nitrogen Dioxide (NO2)	163.3760
Primary PM2.5, Filterable Portion Only	41.2085
Sulfur Dioxide (SO2)	92.4231
Volatile Organic Compounds (VOC)	55.3701

Part 70 Permit Billable Hazardous Air Pollutants (Plant Wide)	Tons Emitted
No Billable Hazardous Air Pollutants reported!	0.0000

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 preparer and on a reasonable inquiry into records and persons responsible for the operation of the source, and is true, accurate, and complete.

Christopher Giunti
 Name of Responsible Official (typed or printed)

VP & General Manager
 Title of Responsible Official

[Signature]
 Signature of Responsible Official

6-24-24
 Date (month, day, year)

Facility Emission Detail**Steel Dynamics, Inc. (SDI), Structural****Plant ID:1818300030****Report for 2023****Location: 2601 S CR 700 E,Columbia City,46725****NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing**

Facility Emissions Overview		
Pollutant	Pollutant Description	Emissions (Tons)
NH3	Ammonia	0
CO	Carbon Monoxide	1075.0165
7439921	Lead	0.1113
NOX	Nitrogen Oxides	163.376
PM-CON	Primary PM Condensable Only (All Less Than 1 Micron)	52.1311
PM10-FIL	Primary PM10, Filterable Portion Only	69.6244
PM25-FIL	Primary PM2.5, Filterable Portion Only	41.2085
SO2	Sulfur Dioxide	92.4231
VOC	Volatile Organic Compounds	55.3701

Facility Emission Detail

Steel Dynamics, Inc. (SDI), Structural

Plant ID:1818300030

Report for 2023

Location: 2601 S CR 700 E,Columbia City,46725

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 01		Group Description: EAF(s)		
Percent Quarterly Throughput				
Winter: 26	Spring: 26	Summer: 26	Fall: 22	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8392	
Process ID: 01		Process Description: EAF(s)		
SCC:	30301544	Stack:	01	
	Primary Metal Production	Description:	Stack 01 EAF Stack	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Electric Arc Furnace (EAF): Carbon Steel	Height:	125	
Heat Content:	0	Diameter:	20	
Sulfur Content:	0	Temperature:	219	
Ash Content:	0	Velocity:	85	
Throughput:	2024896 Tons	Gas Flow:	1596756	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	CEMS - Continuous Emission Monitoring System	0	0	991.5
NH3	Stack Test	0	0	0
NOX	Stack Test	0	0	64.78
PM10-FIL	Stack Test	0	0	5.37
PM25-FIL	Stack Test	0	0	5.37
PM-CON	Stack Test	0	0	18.1
SO2	Stack Test	0	0	29.81
VOC	Stack Test	0	0	37.46
7439921	Stack Test	0	0	0.0897

Facility Emission Detail

Steel Dynamics, Inc. (SDI), Structural

Plant ID:1818300030

Report for 2023

Location: 2601 S CR 700 E,Columbia City,46725

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 02		Group Description: HSM Reheat Furnace		
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: 8392	
Process ID: 02		Process Description: Reheat Furnace		
SCC:	30390003	Stack:	02	
	Primary Metal Production	Description:	Stack 02 HSM Reheat Furnace Stack	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	99	
Heat Content:	1056	Diameter:	7	
Sulfur Content:	0	Temperature:	869	
Ash Content:	0	Velocity:	73	
Throughput:	1627000 Million BTUs	Gas Flow:	167432	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Stack Test	0	0	0
NOX	Stack Test	0	89	51.251
PM10-FIL	Site-Specific Emission Factor	0.0035	0	2.8472
PM25-FIL	Site-Specific Emission Factor	0.0035	0	2.8472
PM-CON	Site-Specific Emission Factor	0.0093	0	7.5656
SO2	Site-Specific Emission Factor	0.00057	0	0.4637
VOC	Site-Specific Emission Factor	0.0003	0	0.2440
7439921	Engineering Judgement	0	0	0.0004

Facility Emission Detail

Steel Dynamics, Inc. (SDI), Structural

Plant ID:1818300030

Report for 2023

Location: 2601 S CR 700 E,Columbia City,46725

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 03		Group Description: Ladle Metallurgical Furnaces/Tundish Preheaters/Caster		
Percent Quarterly Throughput				
Winter: 26		Spring: 26		Summer: 26 Fall: 22
Days Per Week: 7		Weeks Per Year: 52		Hours Per Day: 24 Hours Per Year: 8251
Process ID: 03		Process Description: Ladle Metallurgical Furnaces/ Tundish Preheaters/ Caster		
SCC:	30301544	Stack:	03	
	Primary Metal Production	Description:	Stack 43 LMS Baghouse	
	Integrated Iron and Steel Manufacturing	Stack Type:	Vertical	
	Electric Arc Furnace (EAF): Carbon Steel	Height:	100	
Heat Content:	0	Diameter:	11	
Sulfur Content:	0	Temperature:	141	
Ash Content:	0	Velocity:	62.37	
Throughput:	2024896 Tons	Gas Flow:	355633	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	CEMS - Continuous Emission Monitoring System	0	0	78.8
NOX	Stack Test	0	0	16.286
PM10-FIL	Stack Test	0	99.85	9.079
PM25-FIL	Stack Test	0	99.85	9.079
PM-CON	Stack Test	0	0	21.456
SO2	Stack Test	0	0	61.815
VOC	Stack Test	0	0	17.212
7439921	Stack Test	0	99.85	0.02

Facility Emission Detail

Steel Dynamics, Inc. (SDI), Structural

Plant ID:1818300030

Report for 2023

Location: 2601 S CR 700 E,Columbia City,46725

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 04		Group Description: EAF Baghouse Dust Silo		
Percent Quarterly Throughput				
Winter: 27		Spring: 27		Summer: 26
				Fall: 20
Days Per Week: 7		Weeks Per Year: 52		Hours Per Day: 24
				Hours Per Year: 8392
Process ID: 04		Process Description: EAF Baghouse Dust Silo		
SCC:	30399999	Stack:	00	
	Primary Metal Production	Description:	EAF Baghouse Dust Silo	
	Other Not Classified	Stack Type:	Vertical	
	Other Not Classified	Height:	115	
Heat Content:	0	Diameter:	5.51	
Sulfur Content:	0	Temperature:	68	
Ash Content:	0	Velocity:	50	
Throughput:	30411 Tons	Gas Flow:	71581	
Material:	Product	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.12	90	0.1825
PM25-FIL	Site-Specific Emission Factor	0.12	90	0.1825
7439921	Engineering Judgement	0	0	0.0012
Group ID: 07		Group Description: Paved Roads		
Percent Quarterly Throughput				
Winter: 26		Spring: 26		Summer: 26
				Fall: 22
Days Per Week: 7		Weeks Per Year: 52		Hours Per Day: 24
				Hours Per Year: 8712
Process ID: 07		Process Description: Paved Roads		
SCC:	30388801	Stack:	07	
	Primary Metal Production	Description:	Fugitive - Paved Roads	
	Fugitive Emissions	Stack Type:	Fugitive	
	Specify in Comments Field	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	2024896 Tons	Gas Flow:	0	
Material:	Product	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.04181	90	4.2330
PM25-FIL	Site-Specific Emission Factor	0.01026	90	1.0391

Facility Emission Detail

Steel Dynamics, Inc. (SDI), Structural

Plant ID:1818300030

Report for 2023

Location: 2601 S CR 700 E,Columbia City,46725

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 100		Group Description: Unpaved Roads		
Percent Quarterly Throughput				
Winter: 26		Spring: 26		Summer: 26
				Fall: 22
Days Per Week: 7		Weeks Per Year: 26		Hours Per Day: 24
				Hours Per Year: 8712
Process ID: 100		Process Description: Unpaved Roads		
SCC:	30388801	Stack:	100	
	Primary Metal Production	Description:	Fugitive - Unpaved Roads	
	Fugitive Emissions	Stack Type:	Fugitive	
	Specify in Comments Field	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	2024896 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	0.275	90	27.8423
PM25-FIL	Site-Specific Emission Factor	0.0275	90	2.7842
Group ID: 13, 15		Group Description: Cooling Towers		
Percent Quarterly Throughput				
Winter: 25		Spring: 25		Summer: 26
				Fall: 24
Days Per Week: 7		Weeks Per Year: 51		Hours Per Day: 24
				Hours Per Year: 8291
Process ID: 13, 15		Process Description: Cooling Towers		
SCC:	38500101	Stack:	13, 15	
	Cooling Tower	Description:	Fugitive - Cooling Towers	
	Process Cooling	Stack Type:	Fugitive	
	Mechanical Draft	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	8291 Hour	Gas Flow:	0	
Material:	Cooling Water	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Engineering Judgement	0	0	15.66
PM25-FIL	Engineering Judgement	0	0	15.66

Facility Emission Detail

Steel Dynamics, Inc. (SDI), Structural

Plant ID:1818300030

Report for 2023

Location: 2601 S CR 700 E,Columbia City,46725

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 14		Group Description: Slag Handling		
Percent Quarterly Throughput				
Winter: 29	Spring: 29	Summer: 25	Fall: 17	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8712	
Process ID: 14		Process Description: Slag Handling (Storage piles, Process, Pit dumping, Unpaved roads)		
SCC:	30301565	Stack:	14	
	Primary Metal Production	Description:	Fugitive - Slag Handling	
	Integrated Iron and Steel Manufacturing	Stack Type:	Fugitive	
	Slag Processing	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	242787 Tons	Gas Flow:	0	
Material:	Material	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Site-Specific Emission Factor	0.0589	90	0.7150
PM25-FIL	Site-Specific Emission Factor	0.0454	90	0.5511

Facility Emission Detail

Steel Dynamics, Inc. (SDI), Structural

Plant ID:1818300030

Report for 2023

Location: 2601 S CR 700 E,Columbia City,46725

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 41R		Group Description: LVD Boiler (NEW 2016)		
Percent Quarterly Throughput				
Winter: 35	Spring: 26	Summer: 25	Fall: 14	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 1968	
Process ID: 41		Process Description: LVD Boiler (NEW 2016)		
SCC:	10200602	Stack:	40	
	Industrial	Description:	Stack 40 Ladle Vacuum Degasser	
	Natural Gas	Stack Type:	Vertical	
	10-100 Million Btu/hr	Height:	16	
Heat Content:	1056	Diameter:	1.33	
Sulfur Content:	0	Temperature:	419	
Ash Content:	0	Velocity:	141	
Throughput:	96.48 Million Cubic Feet	Gas Flow:	11848	
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	4.0522
NH3	Engineering Judgement	0	0	0
NOX	Manufacturer Specification	0	0	1.881
PM10-FIL	EPA Emission Factor	1.9	0	0.0917
PM25-FIL	EPA Emission Factor	1.9	0	0.0917
PM-CON	EPA Emission Factor	5.7	0	0.2750
SO2	EPA Emission Factor	0.6	0	0.0289
VOC	EPA Emission Factor	5.5	0	0.2653
7439921	EPA Emission Factor	0.0005	0	0.0000

Facility Emission Detail

Steel Dynamics, Inc. (SDI), Structural

Plant ID:1818300030

Report for 2023

Location: 2601 S CR 700 E,Columbia City,46725

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 42		Group Description:MSM Reheat Furnace		
Percent Quarterly Throughput				
Winter: 26	Spring: 24	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 52	Hours Per Day: 24	Hours Per Year: 8392	
Process ID: 42		Process Description: MSM Reheat Furnace		
SCC:	30390003	Stack:	41	
	Primary Metal Production	Description:	Stack 41 MSM Reheat Furnace Stack	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	98	
Heat Content:	1056	Diameter:	4.1	
Sulfur Content:	0	Temperature:	437	
Ash Content:	0	Velocity:	233	
Throughput:	1018117 Million BTUs	Gas Flow:	184843	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Stack Test	0	0	0.66
NOX	Stack Test	0	89	29.02
PM10-FIL	Site-Specific Emission Factor	0.0035	0	1.7817
PM25-FIL	Site-Specific Emission Factor	0.0035	0	1.7817
PM-CON	Site-Specific Emission Factor	0.0093	0	4.7342
SO2	Site-Specific Emission Factor	0.0006	0	0.3054
VOC	Site-Specific Emission Factor	0.0003	0	0.1527
7439921	Site-Specific Emission Factor	0	0	0

Facility Emission Detail

Steel Dynamics, Inc. (SDI), Structural

Plant ID:1818300030

Report for 2023

Location: 2601 S CR 700 E,Columbia City,46725

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: 5-12c		Group Description: Material Storage Silos & Alloy Bins (12 Silos)		
Percent Quarterly Throughput				
Winter: 26		Spring: 26		Summer: 26
				Fall: 22
Days Per Week: 7		Weeks Per Year: 51		Hours Per Day: 24
				Hours Per Year: 8392
Process ID: 5-12c		Process Description: Material Storage Silos & Alloy Bins (12 Silos)		
SCC:	30599999	Stack:	5-12c	
	Mineral Products	Description:	Fugitive - Material Storage Silos & Alloy Bins	
	Other Not Defined	Stack Type:	Fugitive	
	Specify in Comments Field	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	145449 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	90	1.82
PM25-FIL	Engineering Judgement	0	90	1.82

Facility Emission Detail

Steel Dynamics, Inc. (SDI), Structural

Plant ID:1818300030

Report for 2023

Location: 2601 S CR 700 E,Columbia City,46725

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: EG1		Group Description: Emergency Generator WT1		
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: 5
Process ID: EG1		Process Description: Diesel Generator WT1		
SCC:	20200401	Stack:	EG1	
	Industrial	Description:	Fugitive - WT1 Generator	
	Large Bore Engine	Stack Type:	Fugitive	
	Diesel	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	4.5 Horsepower-Hours	Gas Flow:	0	
Material:	Diesel	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Engineering Judgement	0	0	0.0043
NOX	Engineering Judgement	0	0	0.145
PM10-FIL	Engineering Judgement	0	0	0.002
PM25-FIL	Engineering Judgement	0	0	0.002
PM-CON	Engineering Judgement	0	0	0.0003
SO2	Engineering Judgement	0	0	0.0001
VOC	Engineering Judgement	0	0	0.033

Facility Emission Detail

Steel Dynamics, Inc. (SDI), Structural

Plant ID:1818300030

Report for 2023

Location: 2601 S CR 700 E,Columbia City,46725

NAICS: 331110 Iron and Steel Mills and Ferroalloy Manufacturing

Group ID: EG2		Group Description: Emergency Generator WT2		
Percent Quarterly Throughput				
Winter: 25		Spring: 25		Summer: 25
				Fall: 25
Days Per Week: 1		Weeks Per Year: 52		Hours Per Day: 21
				Hours Per Year: 1
Process ID: EG2		Process Description: Diesel Generator WT2		
SCC:	20200401	Stack:	EG2	
	Industrial	Description:	Fugitive - WT2 Generator	
	Large Bore Engine	Stack Type:	Fugitive	
	Diesel	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	0.4 Horsepower-Hours	Gas Flow:	0	
Material:	Diesel	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Engineering Judgement	0	0	0
NOX	Engineering Judgement	0	0	0.013
PM10-FIL	Engineering Judgement	0	0	0
PM25-FIL	Engineering Judgement	0	0	0
PM-CON	Engineering Judgement	0	0	0
SO2	Engineering Judgement	0	0	0
VOC	Engineering Judgement	0	0	0.003