



Kaiser Aluminum Warrick LLC
4000 W. State Road 66
PO Box 25
Newburgh, IN 47629

June 26, 2024

CERTIFIED MAIL 7022 3330 0001 9903 7436

Indiana Department of Environmental Management
Technical Support and Modeling Section
Office of Air Quality
Mail Code 61-53
100 North Senate Avenue
Indianapolis, IN 46204-2251

**RE: 2023 ANNUAL EMISSION STATEMENT for KAISER ALUMINUM WARRICK LLC,
SOURCE ID 173-00126.**

Pursuant to 326 IAC 2-6, Kaiser Aluminum Warrick LLC ("Kaiser") herein submits the Facility Emission Detail report covering the calendar year 2023 for the Kaiser Aluminum Warrick LLC facility. Also enclosed is the required certification.

If you have any questions concerning the information submitted, please contact me via email at pamela.block@kaiseraluminum.com or by phone at (812) 706-4147.

Sincerely,

A handwritten signature in blue ink that reads "Pamela Block".

Pamela Block
Senior Environmental Engineer
Kaiser Aluminum Warrick LLC

Enclosures

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Kaiser Aluminum Warrick LLC
Source Address: 4000 West State Road 66, Newburgh, Indiana 47630
Mailing Address: Bldg. 860, P.O. Box 25, Newburgh, Indiana 47629
Operation Permit No.: T173-44089-00126

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

Please check what documents are being certified:

- Annual Compliance Certification Letter
- Test Result (specify)
- Reports (specify) 2023 Annual Emissions Statement – Facility Emission Detail 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: 

Printed Name: Scott M. Endres

Title/Position: Vice President Warrick Manufacturing, Kaiser Aluminum Warrick LLC

Phone: (509) 927-6043

Date: June 26, 2024

Facility Emission Detail**Kaiser Aluminum Warrick LLC****Plant ID:1817300126****Report for 2023****Location: 4000 W SR 66,Newburgh,47630****NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding**

Facility Emissions Overview		
Pollutant	Pollutant Description	Emissions (Tons)
NH3	Ammonia	6.5396
CO	Carbon Monoxide	736.8229
7439921	Lead	0.0326
NOX	Nitrogen Oxides	606.4632
PM-CON	Primary PM Condensable Only (All Less Than 1 Micron)	53.3297
PM10-FIL	Primary PM10, Filterable Portion Only	61.1971
PM25-FIL	Primary PM2.5, Filterable Portion Only	38.4371
SO2	Sulfur Dioxide	2.1085
VOC	Volatile Organic Compounds	425.6970

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 201		Group Description: #5 FURNACE COMPLEX		
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: METAL		
SCC:	30400114	Stack:	201	
	Secondary Metal Production	Description:	#5 FURNACE COMPLEX	
	Aluminum	Stack Type:	Horizontal	
	Pouring/Casting	Height:	71	
Heat Content:	0	Diameter:	6	
Sulfur Content:	0	Temperature:	382	
Ash Content:	0	Velocity:	120.12	
Throughput:	88235 Tons	Gas Flow:	203779	
Material:	Metal	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Stack Test	0	0	9.14
PM-CON	Stack Test	0	0	3.63
626	Stack Test	0	0	0.0000
7439921	Stack Test	0	0	0.0006
75092	Stack Test	0	0	0.0001
7647010	Stack Test	0	0	1.82
7664393	Stack Test	0	0	0.164
7782505	Stack Test	0	0	0.0363
PM25-FIL	EPA Speciation Profile	0	0	8.38
NOX	EPA Emission Factor	0.01	0	0.4412
SO2	EPA Emission Factor	0.02	0	0.8824
VOC	EPA Emission Factor	0.14	0	6.1764

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Process ID: 02		Process Description: NATURAL GAS		
SCC:	39000699	Stack:	201	
	In-process Fuel Use	Description:	#5 FURNACE COMPLEX	
	Natural Gas	Stack Type:	Horizontal	
	General	Height:	71	
Heat Content:	0	Diameter:	6	
Sulfur Content:	0	Temperature:	382	
Ash Content:	0	Velocity:	120.12	
Throughput:	409.87 Million Cubic Feet	Gas Flow:	203779	
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	17.2145
NH3	EPA Emission Factor	3.2	0	0.6558
NOX	EPA Emission Factor	100	0	20.4935
PM25-FIL	EPA Emission Factor	1.9	0	0.3894
PM-CON	EPA Emission Factor	5.7	0	1.1681
SO2	EPA Emission Factor	0.6	0	0.1230
VOC	EPA Emission Factor	5.5	0	1.1271
7439921	EPA Emission Factor	0.0005	0	0.0001
PM10-FIL	EPA Emission Factor	1.9	0	0.3894

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 202		Group Description: #1 FURNACE COMPLEX		
Percent Quarterly Throughput				
Winter: 10	Spring: 30	Summer: 30	Fall: 30	
Days Per Week: 7	Weeks Per Year: 44	Hours Per Day: 24	Hours Per Year: 7353	
Process ID: 01		Process Description: NATURAL GAS #1		
SCC:	39000699	Stack:	202	
	In-process Fuel Use	Description:	#1 FURNACE COMPLEX	
	Natural Gas	Stack Type:	Vertical	
	General	Height:	126	
Heat Content:	0	Diameter:	5.25	
Sulfur Content:	0	Temperature:	397	
Ash Content:	0	Velocity:	68.82	
Throughput:	154.5 Million Cubic Feet	Gas Flow:	89340	
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	0.1468
PM-CON	EPA Emission Factor	5.7	0	0.4403
SO2	EPA Emission Factor	0.6	0	0.0464
VOC	EPA Emission Factor	5.5	0	0.4249
7439921	EPA Emission Factor	0.0005	0	0.0000
CO	Stack Test	0	0	5.52
75092	Stack Test	0	0	0.0000
50000	Stack Test	0	0	0.0058
NH3	EPA Emission Factor	3.2	0	0.2472
NOX	EPA Emission Factor	100	0	7.725
PM10-FIL	EPA Emission Factor	1.9	0	0.1468

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Process ID: 03		Process Description: CLEAN AL MELT		
SCC:	30400137	Stack:	202	
	Secondary Metal Production	Description:	#1 FURNACE COMPLEX	
	Aluminum	Stack Type:	Vertical	
	Group 1 Furnace, handling clean charge only	Height:	126	
Heat Content:	0	Diameter:	5.25	
Sulfur Content:	0	Temperature:	397	
Ash Content:	0	Velocity:	68.82	
Throughput:	68535 Tons	Gas Flow:	89340	
Material:	Metal	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Stack Test	0	0	2.26
PM25-FIL	Stack Test	0	0	0.38
PM-CON	Stack Test	0	0	0.245
Group ID: 203		Group Description:#2 COMPLEX OFFLINE MELTERS		
Percent Quarterly Throughput				
Winter: 24	Spring: 24	Summer: 26	Fall: 26	
Days Per Week: 7	Weeks Per Year: 51	Hours Per Day: 24	Hours Per Year: 8544	
Process ID: 01		Process Description: METAL		
SCC:	30400199	Stack:	203	
	Secondary Metal Production	Description:	#2 COMPLEX OFFLINE MELTER	
	Aluminum	Stack Type:	Vertical	
	Other Not Classified	Height:	71	
Heat Content:	0	Diameter:	3	
Sulfur Content:	0	Temperature:	500	
Ash Content:	0	Velocity:	235.79	
Throughput:	27120 Tons	Gas Flow:	100000	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM-CON	Engineering Judgement	0	0	0.0624
7439921	Engineering Judgement	0	0	0.0000
PM10-FIL	Stack Test	0	0	0.0195
PM25-FIL	Stack Test	0	0	0.0195

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Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Process ID: 02		Process Description: NATURAL GAS		
SCC:	39000699	Stack:	203	
	In-process Fuel Use	Description:	#2 COMPLEX OFFLINE MELTER	
	Natural Gas	Stack Type:	Vertical	
	General	Height:	71	
Heat Content:	0	Diameter:	3	
Sulfur Content:	0	Temperature:	500	
Ash Content:	0	Velocity:	235.79	
Throughput:	138.5 Million Cubic Feet	Gas Flow:	100000	
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	5.817
NH3	EPA Emission Factor	3.2	0	0.2216
NOX	EPA Emission Factor	100	0	6.925
PM10-FIL	EPA Emission Factor	1.9	0	0.1316
PM25-FIL	EPA Emission Factor	1.9	0	0.1316
PM-CON	EPA Emission Factor	5.7	0	0.3947
SO2	EPA Emission Factor	0.6	0	0.0416
VOC	EPA Emission Factor	5.5	0	0.3809
7439921	EPA Emission Factor	0.0005	0	0.0000

Facility Emission Detail

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Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 204		Group Description: #4 FURNACE (CSM)		
Percent Quarterly Throughput				
Winter: 75	Spring: 25	Summer: 0	Fall: 0	
Days Per Week: 7	Weeks Per Year: 16	Hours Per Day: 24	Hours Per Year: 5448	
Process ID: 01		Process Description: COATED SCRAP MELTING		
SCC:	30400138	Stack:	226b	
	Secondary Metal Production	Description:	COATED SCRAP MELTER	
	Aluminum	Stack Type:	Vertical	
	Group 1 Furnace, handling other than clean charge	Height:	70	
Heat Content:	0	Diameter:	5.44000005722046	
Sulfur Content:	0	Temperature:	337	
Ash Content:	0	Velocity:	46.40	
Throughput:	11042 Tons	Gas Flow:	64800	
Material:	Aluminum	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Stack Test	0	0	1.6
PM10-FIL	Stack Test	0	0	0.878
PM25-FIL	Stack Test	0	0	0.707
VOC	Stack Test	0	0	0.11
7439921	Stack Test	0	0	0.0000
7647010	Stack Test	0	92	0.0291
7664393	Stack Test	0	78.22	0.58

Facility Emission Detail

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Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Process ID: 02		Process Description: NATURAL GAS COMBUSTION		
SCC:	39000699	Stack:	226b	
	In-process Fuel Use	Description:	COATED SCRAP MELTER	
	Natural Gas	Stack Type:	Vertical	
	General	Height:	70	
Heat Content:	0	Diameter:	5.44000005722046	
Sulfur Content:	0	Temperature:	337	
Ash Content:	0	Velocity:	46.40	
Throughput:	34.09 Million Cubic Feet	Gas Flow:	64800	
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	1.4318
NH3	EPA Emission Factor	3.2	0	0.0545
NOX	EPA Emission Factor	100	0	1.7045
PM10-FIL	EPA Emission Factor	1.9	0	0.0324
PM25-FIL	EPA Emission Factor	1.9	0	0.0324
PM-CON	EPA Emission Factor	5.7	0	0.0972
SO2	EPA Emission Factor	0.6	0	0.0102
VOC	EPA Emission Factor	5.5	0	0.0937
7439921	EPA Emission Factor	0.0005	0	0.0000

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Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 207		Group Description: INGOT MISCELLANEOUS GAS USAGE		
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:	10200602	Stack:	207	
	Industrial	Description:	INGOT MISCELLANEOUS GAS USAGE	
	Natural Gas	Stack Type:	Fugitive	
	10-100 Million Btu/hr	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	895.9 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)
CO	EPA Emission Factor	84	0	37.6278
NH3	EPA Emission Factor	3.2	0	1.4334
NOX	EPA Emission Factor	100	0	44.795
PM10-FIL	EPA Emission Factor	1.9	0	0.8511
PM25-FIL	EPA Emission Factor	1.9	0	0.8511
PM-CON	EPA Emission Factor	5.7	0	2.5533
SO2	EPA Emission Factor	0.6	0	0.2688
VOC	EPA Emission Factor	5.5	0	2.4637
7439921	EPA Emission Factor	0.0005	0	0.0002

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 210		Group Description: SKIM COOLING AND LOADOUT		
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: SKIM COOLING AND LOADOUT		
SCC:	30400107	Stack:	210	
	Secondary Metal Production	Description:	SKIM COOLING AND LOADOUT	
	Aluminum	Stack Type:	Vertical	
	Hot Dross Processing	Height:	88	
Heat Content:	0	Diameter:	4.80999994277954	
Sulfur Content:	0	Temperature:	93	
Ash Content:	0	Velocity:	123.49	
Throughput:	23213 Tons	Gas Flow:	134569	
Material:	Metal	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	Engineering Judgement	0	0	0.744
PM10-FIL	Stack Test	0	0	0.744
PM-CON	Stack Test	0	0	5.83
7439921	Stack Test	0	0	0.0221

Facility Emission Detail

Kaiser Aluminum Warrick LLC

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Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 224		Group Description: EMC CASTING COMPLEX MELTS		
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: MOLTEN AND SCRAP ALUMINUM		
SCC:	30399999	Stack:	224	
	Primary Metal Production	Description:	EMC MELTERS	
	Other Not Classified	Stack Type:	Vertical	
	Other Not Classified	Height:	129	
Heat Content:	0	Diameter:	5.71000003814697	
Sulfur Content:	0	Temperature:	269	
Ash Content:	0	Velocity:	79.32	
Throughput:	475965 Tons	Gas Flow:	121812	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	Engineering Judgement	0	0	2.95
PM-CON	Engineering Judgement	0	0	1.32
PM10-FIL	Stack Test	0	0	17.5
7439921	Stack Test	0	0	0.0061
75092	Stack Test	0	0	0.723
7647010	Stack Test	0	0	18.8
7664393	Stack Test	0	0	0.375
7782505	Stack Test	0	0	0.646

Facility Emission Detail

Kaiser Aluminum Warrick LLC

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Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Process ID: 02		Process Description: NATURAL GAS		
SCC:	30390003	Stack:	224	
	Primary Metal Production	Description:	EMC MELTERS	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	129	
Heat Content:	0	Diameter:	5.71000003814697	
Sulfur Content:	0	Temperature:	269	
Ash Content:	0	Velocity:	79.32	
Throughput:	560.8 Million Cubic Feet	Gas Flow:	121812	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NOX	Stack Test	0	0	41.9
CO	EPA Emission Factor	84	0	23.5536
NH3	EPA Emission Factor	3.2	0	0.8973
PM10-FIL	EPA Emission Factor	1.9	0	0.5328
PM25-FIL	EPA Emission Factor	1.9	0	0.5328
PM-CON	EPA Emission Factor	5.7	0	1.5983
SO2	EPA Emission Factor	0.6	0	0.1682
VOC	EPA Emission Factor	5.5	0	1.5422
7439921	EPA Emission Factor	0.0005	0	0.0001

Facility Emission Detail

Kaiser Aluminum Warrick LLC

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Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 225		Group Description: EMC HOLDERS		
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: MOLTEN ALUMINUM		
SCC:	30399999	Stack:	225	
	Primary Metal Production	Description:	EMC HOLDERS	
	Other Not Classified	Stack Type:	Vertical	
	Other Not Classified	Height:	129	
Heat Content:	0	Diameter:	3	
Sulfur Content:	0	Temperature:	278	
Ash Content:	0	Velocity:	57.62	
Throughput:	471339 Tons	Gas Flow:	24428	
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
PM10-FIL	Stack Test	0	0	9.63
PM25-FIL	Stack Test	0	0	6.11
7439921	Stack Test	0	0	0.0018
7647010	Stack Test	0	0	62.4
7782505	Stack Test	0	0	5.54

Facility Emission Detail

Kaiser Aluminum Warrick LLC

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Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Process ID: 02		Process Description: NATURAL GAS		
SCC:	30390003	Stack:	225	
	Primary Metal Production	Description:	EMC HOLDERS	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	129	
Heat Content:	0	Diameter:	3	
Sulfur Content:	0	Temperature:	278	
Ash Content:	0	Velocity:	57.62	
Throughput:	87.9 Million Cubic Feet	Gas Flow:	24428	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NOX	Stack Test	0	0	4.57
CO	EPA Emission Factor	84	0	3.6918
NH3	EPA Emission Factor	3.2	0	0.1406
PM10-FIL	EPA Emission Factor	1.9	0	0.0835
PM25-FIL	EPA Emission Factor	1.9	0	0.0835
PM-CON	EPA Emission Factor	5.7	0	0.2505
SO2	EPA Emission Factor	0.6	0	0.0264
VOC	EPA Emission Factor	5.5	0	0.2417
7439921	EPA Emission Factor	0.0005	0	0.0000

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Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 227		Group Description: EMC COMPLEX DEGASSERS		
Percent Quarterly Throughput				
Winter: 24	Spring: 25	Summer: 26	Fall: 25	
Days Per Week: 7	Weeks Per Year: 13	Hours Per Day: 24	Hours Per Year: 2113	
Process ID: 01		Process Description: MOLTEN ALUMINUM		
SCC:	30399999	Stack:	227	
	Primary Metal Production	Description:	EMC DEGASSERS	
	Other Not Classified	Stack Type:	Vertical	
	Other Not Classified	Height:	129	
Heat Content:	0	Diameter:	2.67000007629395	
Sulfur Content:	0	Temperature:	92	
Ash Content:	0	Velocity:	30.42	
Throughput:	466654 Tons	Gas Flow:	10219	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Engineering Judgement	0	0	1.06
PM25-FIL	Engineering Judgement	0	0	1.06
7782505	Engineering Judgement	0	0	0.0448
PM-CON	Stack Test	0	0	0.0423
7647010	Stack Test	0	0	0.364

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Kaiser Aluminum Warrick LLC

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Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 228		Group Description:#10 FURNACE		
Percent Quarterly Throughput				
Winter: 17	Spring: 29	Summer: 28	Fall: 26	
Days Per Week: 7	Weeks Per Year: 44	Hours Per Day: 24	Hours Per Year: 7392	
Process ID: 01		Process Description: NATURAL GAS #10		
SCC:	39000699	Stack:	228	
	In-process Fuel Use	Description:	#10 OFFLINE MELTER	
	Natural Gas	Stack Type:	Vertical	
	General	Height:	68	
Heat Content:	0	Diameter:	5.1	
Sulfur Content:	0	Temperature:	499	
Ash Content:	0	Velocity:	44.14	
Throughput:	82 Million Cubic Feet	Gas Flow:	54074	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Stack Test	0	0	2.93
NH3	EPA Emission Factor	3.2	0	0.1312
NOX	EPA Emission Factor	100	0	4.1
SO2	EPA Emission Factor	0.6	0	0.0246
VOC	EPA Emission Factor	5.5	0	0.2255
Process ID: 03		Process Description: CLEAN AL MELT		
SCC:	30400137	Stack:	228	
	Secondary Metal Production	Description:	#10 OFFLINE MELTER	
	Aluminum	Stack Type:	Vertical	
	Group 1 Furnace, handling clean charge only	Height:	68	
Heat Content:	0	Diameter:	5.1	
Sulfur Content:	0	Temperature:	499	
Ash Content:	0	Velocity:	44.14	
Throughput:	19235 Tons	Gas Flow:	54074	
Material:	Metal	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	Stack Test	0	0	0.12
PM-CON	Stack Test	0	0	0.0774
PM10-FIL	Stack Test	0	0	0.122

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 230		Group Description: #2 OFFLINE ROTOCLONES		
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: METAL		
SCC:	30400199	Stack:	230	
	Secondary Metal Production	Description:	#2 OFFLINE MELTERS FEED	
	Aluminum	Stack Type:	Vertical	
	Other Not Classified	Height:	21	
Heat Content:	0	Diameter:	2.51999998092651	
Sulfur Content:	0	Temperature:	77	
Ash Content:	0	Velocity:	73.52	
Throughput:	27120 Tons	Gas Flow:	22000	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM-CON	Engineering Judgement	0	0	0.229
PM10-FIL	Stack Test	0	99	0.788
PM25-FIL	Stack Test	0	99	0.788

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 231		Group Description: #2 COMPLEX OFFLINE VORTEX		
Percent Quarterly Throughput				
Winter: 32	Spring: 32	Summer: 18	Fall: 18	
Days Per Week: 7	Weeks Per Year: 30	Hours Per Day: 24	Hours Per Year: 5542	
Process ID: 01		Process Description: METAL		
SCC:	30400199	Stack:	242	
	Secondary Metal Production	Description:	#2 COMPLEX OFFLINE VORTEX	
	Aluminum	Stack Type:	Vertical	
	Other Not Classified	Height:	50	
Heat Content:	0	Diameter:	1.98000001907349	
Sulfur Content:	0	Temperature:	142	
Ash Content:	0	Velocity:	55.90	
Throughput:	5542 Tons	Gas Flow:	10314	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM-CON	Engineering Judgement	0	0	0.0075
7439921	Engineering Judgement	0	0	0.0002
626	Stack Test	0	0	0
PM10-FIL	Stack Test	0	99	0.0084
PM25-FIL	Stack Test	0	99	0.0084

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Process ID: 02		Process Description: NATURAL GAS		
SCC:	39000699	Stack:	242	
	In-process Fuel Use	Description:	#2 COMPLEX OFFLINE VORTEX	
	Natural Gas	Stack Type:	Vertical	
	General	Height:	50	
Heat Content:	0	Diameter:	1.98000001907349	
Sulfur Content:	0	Temperature:	142	
Ash Content:	0	Velocity:	55.90	
Throughput:	0 Million Cubic Feet	Gas Flow:	10314	
Material:	Natural Gas	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
NH3	EPA Emission Factor	3.2	0	0
PM10-FIL	EPA Emission Factor	1.9	0	0
PM25-FIL	EPA Emission Factor	1.9	0	0
PM-CON	EPA Emission Factor	5.7	0	0
SO2	EPA Emission Factor	0.6	0	0
VOC	EPA Emission Factor	5.5	0	0
7439921	EPA Emission Factor	0.0005	0	0

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 300		Group Description: PREHEAT FURNACES (42)		
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: AMMONIUM FLUOROBORATE		
SCC:	30400112	Stack:	300	
	Secondary Metal Production	Description:	PREHEAT FURNACES (42)	
	Aluminum	Stack Type:	Vertical	
	Annealing Furnace	Height:	40	
Heat Content:	0	Diameter:	3.67000007629395	
Sulfur Content:	0	Temperature:	317	
Ash Content:	0	Velocity:	539.97	
Throughput:	0.3 Tons	Gas Flow:	342720	
Material:	Metal	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
7664393	Stack Test	0	0	0.0297
VOC	State/Local Speciation Profile	0	0	7
NOX	EPA Emission Factor	1.5	0	0.0002
Process ID: 02		Process Description: NATURAL GAS		
SCC:	30990003	Stack:	300	
	Fabricated Metal Products	Description:	PREHEAT FURNACES (42)	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	40	
Heat Content:	0	Diameter:	3.67000007629395	
Sulfur Content:	0	Temperature:	317	
Ash Content:	0	Velocity:	539.97	
Throughput:	451.4 Million Cubic Feet	Gas Flow:	342720	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Stack Test	0	0	40.1
NOX	Stack Test	0	0	6.3
PM10-FIL	Stack Test	0	0	5.6
PM25-FIL	Stack Test	0	0	5.6
PM-CON	Stack Test	0	0	2.17
7439921	Stack Test	0	0	0.0007
NH3	EPA Emission Factor	3.2	0	0.7222
SO2	EPA Emission Factor	0.6	0	0.1354

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 301		Group Description:INGOT SCALPER STEP CUTTR		
Percent Quarterly Throughput				
Winter: 24	Spring: 27	Summer: 26	Fall: 23	
Days Per Week: 7	Weeks Per Year: 25	Hours Per Day: 24	Hours Per Year: 4261	
Process ID: 01		Process Description: INGOT SURFACE PLANING		
SCC:	30400199	Stack:	301	
	Secondary Metal Production	Description:	INGOT SCALPER STEP CUTTER	
	Aluminum	Stack Type:	Vertical With Rain Cap	
	Other Not Classified	Height:	100	
Heat Content:	0	Diameter:	9	
Sulfur Content:	0	Temperature:	77	
Ash Content:	0	Velocity:	3.17	
Throughput:	10707 Tons	Gas Flow:	12100	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	Engineering Judgement	0	0	0.764
PM10-FIL	Stack Test	0	0	0.764
Group ID: 302		Group Description:HOT REVERSING MILL		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 29	Hours Per Day: 24	Hours Per Year: 4803	
Process ID: 01		Process Description: METAL		
SCC:	30400150	Stack:	302	
	Secondary Metal Production	Description:	HOT REVERSING MILL	
	Aluminum	Stack Type:	Vertical	
	Rolling/Drawing/Extruding	Height:	77	
Heat Content:	0	Diameter:	5	
Sulfur Content:	0	Temperature:	90	
Ash Content:	0	Velocity:	29.71	
Throughput:	408741 Tons	Gas Flow:	35000	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Engineering Judgement	0	0	3.27
PM25-FIL	Engineering Judgement	0	0	3.27
VOC	Stack Test	0	0	23.5
NOX	EPA Emission Factor	0.7	0	143.0594

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 303		Group Description: CONTINUOUS HOT MILL		
Percent Quarterly Throughput				
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 29	Hours Per Day: 24	Hours Per Year: 4803	
Process ID: 01		Process Description: METAL		
SCC:	30400150	Stack:	303	
	Secondary Metal Production	Description:	CONTINUOUS HOT MILL	
	Aluminum	Stack Type:	Horizontal	
	Rolling/Drawing/Extruding	Height:	76	
Heat Content:	0	Diameter:	8	
Sulfur Content:	0	Temperature:	90	
Ash Content:	0	Velocity:	37.80	
Throughput:	408741 Tons	Gas Flow:	114000	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NOX	EPA Emission Factor	0.7	0	143.0594
VOC	EPA Emission Factor	0.09	0	18.3933

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 304		Group Description: ANNEALLING FURNACES (13)		
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:	30990003	Stack:	304	
	Fabricated Metal Products	Description:	ANNEALLING FURNACES (13)	
	Fuel Fired Equipment	Stack Type:	Horizontal	
	Natural Gas: Process Heaters	Height:	63	
Heat Content:	0	Diameter:	3	
Sulfur Content:	0	Temperature:	173	
Ash Content:	0	Velocity:	327.25	
Throughput:	75.2 Million Cubic Feet	Gas Flow:	138792	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Stack Test	0	0	4.27
NOX	Stack Test	0	0	0.0233
PM10-FIL	Stack Test	0	0	0.0057
PM25-FIL	Stack Test	0	0	0.0057
PM-CON	Stack Test	0	0	0.0621
VOC	Stack Test	0	0	1.24
NH3	EPA Emission Factor	3.2	0	0.1203
SO2	EPA Emission Factor	0.6	0	0.0226
7439921	EPA Emission Factor	0.0005	0	0.0000

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 308		Group Description: #2 COLD MILL		
Percent Quarterly Throughput				
Winter: 27		Spring: 25		Summer: 26
				Fall: 22
Days Per Week: 7		Weeks Per Year: 27		Hours Per Day: 24
				Hours Per Year: 4538
Process ID: 01		Process Description: METAL		
SCC:	30400150	Stack:	308	
	Secondary Metal Production	Description:	#2 COLD MILL	
	Aluminum	Stack Type:	Vertical	
	Rolling/Drawing/Extruding	Height:	61	
Heat Content:	0	Diameter:	6.5	
Sulfur Content:	0	Temperature:	90	
Ash Content:	0	Velocity:	85.11	
Throughput:	157922 Tons	Gas Flow:	169449	
Material:	Material	Input/Output:	Process Material Produced (Output)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Stack Test	0	0	1.62
PM25-FIL	Stack Test	0	0	0.813
PM-CON	Stack Test	0	0	12.6
VOC	Stack Test	0	0	110.2
NOX	EPA Emission Factor	0.7	0	55.2727

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 309		Group Description: #4 COLD MILL		
Percent Quarterly Throughput				
Winter: 26	Spring: 24	Summer: 26	Fall: 24	
Days Per Week: 7	Weeks Per Year: 28	Hours Per Day: 24	Hours Per Year: 4777	
Process ID: 01		Process Description: METAL		
SCC:	30400150	Stack:	309	
	Secondary Metal Production	Description:	#4 COLD MILL	
	Aluminum	Stack Type:	Horizontal	
	Rolling/Drawing/Extruding	Height:	61	
Heat Content:	0	Diameter:	6.5	
Sulfur Content:	0	Temperature:	100	
Ash Content:	0	Velocity:	75.44	
Throughput:	211033 Tons	Gas Flow:	150208	
Material:	Material	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NOX	EPA Emission Factor	0.7	0	73.8616
PM10-FIL	Stack Test	0	0	2.16
PM25-FIL	Stack Test	0	0	1.09
PM-CON	Stack Test	0	0	16.8
VOC	Stack Test	0	0	147.2

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 314		Group Description: CASTROL PROCESS		
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:	10200601	Stack:	314	
	Industrial	Description:	R-953 PROCESS	
	Natural Gas	Stack Type:	Vertical	
	> 100 Million Btu/hr	Height:	22	
Heat Content:	0	Diameter:	3.67000007629395	
Sulfur Content:	0	Temperature:	427	
Ash Content:	0	Velocity:	326.13	
Throughput:	53.59 Million Cubic Feet	Gas Flow:	207000	
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	2.2508
NH3	EPA Emission Factor	3.2	0	0.0857
NOX	EPA Emission Factor	280	0	7.5026
PM10-FIL	EPA Emission Factor	1.9	0	0.0509
PM25-FIL	EPA Emission Factor	1.9	0	0.0509
PM-CON	EPA Emission Factor	5.7	0	0.1527
SO2	EPA Emission Factor	0.6	0	0.0161
VOC	EPA Emission Factor	5.5	0	0.1474
7439921	EPA Emission Factor	0.0005	0	0.0000

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 315		Group Description: PUSHER FURNACES (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: 02		Process Description: NATURAL GAS		
SCC:	30990003	Stack:	315	
	Fabricated Metal Products	Description:	PUSHER FURNACES (2)	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	60	
Heat Content:	0	Diameter:	4	
Sulfur Content:	0	Temperature:	250	
Ash Content:	0	Velocity:	17.84	
Throughput:	154.4 Million Cubic Feet	Gas Flow:	13451	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Engineering Judgement	0	0	13.7
NH3	Engineering Judgement	0	0	0.247
NOX	Engineering Judgement	0	0	2.16
PM10-FIL	Engineering Judgement	0	0	1.92
PM25-FIL	Engineering Judgement	0	0	1.92
PM-CON	Engineering Judgement	0	0	0.742
VOC	Engineering Judgement	0	0	2.39
7439921	Engineering Judgement	0	0	0.0002
SO2	EPA Emission Factor	0.6	0	0.0463

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 400		Group Description: COIL COATING LINE 2		
Percent Quarterly Throughput				
Winter: 26		Spring: 23		Summer: 26
				Fall: 25
Days Per Week: 7		Weeks Per Year: 37		Hours Per Day: 24
				Hours Per Year: 6188
Process ID: 01		Process Description: COATING SOLVENTS		
SCC:	40201801	Stack:	400	
	Surface Coating Operations	Description:	COIL COATING LINE 2	
	Metal Coil Coating	Stack Type:	Vertical	
	Prime Coating Application	Height:	86	
Heat Content:	0	Diameter:	8	
Sulfur Content:	0	Temperature:	735	
Ash Content:	0	Velocity:	50	
Throughput:	5202 Tons	Gas Flow:	150796	
Material:	Solvent in Coating	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Stack Test	0	88.35	317.32
VOC	Stack Test	0	99.77	19.25
Process ID: 02		Process Description: NATURAL GAS COMBUSTION		
SCC:	30390003	Stack:	400	
	Primary Metal Production	Description:	COIL COATING LINE 2	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	86	
Heat Content:	0	Diameter:	8	
Sulfur Content:	0	Temperature:	735	
Ash Content:	0	Velocity:	50	
Throughput:	408.9 Million Cubic Feet	Gas Flow:	150796	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NOX	Stack Test	0	0	10.6
CO	EPA Emission Factor	84	0	17.1738
NH3	EPA Emission Factor	3.2	0	0.6542
PM10-FIL	EPA Emission Factor	1.9	0	0.3885
PM25-FIL	EPA Emission Factor	1.9	0	0.3885
PM-CON	EPA Emission Factor	5.7	0	1.1654
SO2	EPA Emission Factor	0.6	0	0.1227
VOC	EPA Emission Factor	5.5	0	1.1245
7439921	EPA Emission Factor	0.0005	0	0.0001

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 401		Group Description: COIL COATING LINE 3		
Percent Quarterly Throughput				
Winter: 27		Spring: 25		Summer: 24
				Fall: 24
Days Per Week: 7		Weeks Per Year: 32		Hours Per Day: 24
				Hours Per Year: 5382
Process ID: 01		Process Description: COATING SOLVENTS		
SCC: 40201801		Stack: 401		
Surface Coating Operations		Description: COIL COATING LINE 3		
Metal Coil Coating		Stack Type: Vertical		
Prime Coating Application		Height: 86		
Heat Content: 0		Diameter: 8		
Sulfur Content: 0		Temperature: 662		
Ash Content: 0		Velocity: 46		
Throughput: 3378 Tons		Gas Flow: 138733		
Material: Solvent in Coating		Input/Output: Process Material Used (Input)		
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Stack Test	0	88.35	206.03
VOC	Stack Test	0	99.77	16.55
Process ID: 02		Process Description: NATURAL GAS COMBUSTION		
SCC: 30390003		Stack: 401		
Primary Metal Production		Description: COIL COATING LINE 3		
Fuel Fired Equipment		Stack Type: Vertical		
Natural Gas: Process Heaters		Height: 86		
Heat Content: 0		Diameter: 8		
Sulfur Content: 0		Temperature: 662		
Ash Content: 0		Velocity: 46		
Throughput: 287.9 Million Cubic Feet		Gas Flow: 138733		
Material: Natural Gas		Input/Output: Process Material Used (Input)		
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NOX	Stack Test	0	0	7.47
CO	EPA Emission Factor	84	0	12.0918
NH3	EPA Emission Factor	3.2	0	0.4606
PM10-FIL	EPA Emission Factor	1.9	0	0.2735
PM25-FIL	EPA Emission Factor	1.9	0	0.2735
PM-CON	EPA Emission Factor	5.7	0	0.8205
SO2	EPA Emission Factor	0.6	0	0.0864
VOC	EPA Emission Factor	5.5	0	0.7917
7439921	EPA Emission Factor	0.0005	0	0.0001

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 402		Group Description: MIX ROOM- BLDG. 847		
Percent Quarterly Throughput				
Winter: 26		Spring: 24		Summer: 26
				Fall: 24
Days Per Week: 7		Weeks Per Year: 37		Hours Per Day: 24
				Hours Per Year: 6255
Process ID: 01		Process Description: COATING SOLVENTS		
SCC:	40201803	Stack:	402	
	Surface Coating Operations	Description:	MIX ROOM- BLDG. 847	
	Metal Coil Coating	Stack Type:	Horizontal	
	Solvent Mixing	Height:	20	
Heat Content:	0	Diameter:	2	
Sulfur Content:	0	Temperature:	77	
Ash Content:	0	Velocity:	33.42	
Throughput:	8580 Tons	Gas Flow:	6300	
Material:	Solvent in Coating	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Stack Test	0	0	4.73
Group ID: 403		Group Description: COIL PREP LINE 6 and R&D Line		
Percent Quarterly Throughput				
Winter: 36		Spring: 27		Summer: 15
				Fall: 22
Days Per Week: 7		Weeks Per Year: 16		Hours Per Day: 24
				Hours Per Year: 2674
Process ID: 01		Process Description: COATING SOLVENTS		
SCC:	40201801	Stack:	403	
	Surface Coating Operations	Description:	COIL PREP LINE 6	
	Metal Coil Coating	Stack Type:	Vertical	
	Prime Coating Application	Height:	63	
Heat Content:	0	Diameter:	4	
Sulfur Content:	0	Temperature:	431	
Ash Content:	0	Velocity:	25.17	
Throughput:	131 Tons	Gas Flow:	18980	
Material:	Solvent in Coating	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Material Balance	0	0	53.37

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Process ID: 02		Process Description: NATURAL GAS COMBUSTION		
SCC:	30390003	Stack:	403	
	Primary Metal Production	Description:	COIL PREP LINE 6	
	Fuel Fired Equipment	Stack Type:	Vertical	
	Natural Gas: Process Heaters	Height:	63	
Heat Content:	0	Diameter:	4	
Sulfur Content:	0	Temperature:	431	
Ash Content:	0	Velocity:	25.17	
Throughput:	292.3 Million Cubic Feet	Gas Flow:	18980	
Material:	Natural Gas	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
CO	Stack Test	0	0	24.5
NOX	Stack Test	0	0	24.5
NH3	EPA Emission Factor	3.2	0	0.4677
PM10-FIL	EPA Emission Factor	1.9	0	0.2777
PM25-FIL	EPA Emission Factor	1.9	0	0.2777
PM-CON	EPA Emission Factor	5.7	0	0.8331
SO2	EPA Emission Factor	0.6	0	0.0877
VOC	EPA Emission Factor	5.5	0	0.8038
7439921	EPA Emission Factor	0.0005	0	0.0001

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 406		Group Description: BLDG. 879 LIME SILO		
Percent Quarterly Throughput				
Winter: 26		Spring: 24		Summer: 26
				Fall: 24
Days Per Week: 7		Weeks Per Year: 28		Hours Per Day: 24
				Hours Per Year: 4777
Process ID: 01		Process Description: LIME		
SCC:	39999999	Stack:	406	
	Miscellaneous Manufacturing Industries	Description:	BLDG. 871E LIME SILO	
	Miscellaneous Industrial Processes	Stack Type:	Horizontal	
	See Comment **	Height:	56	
Heat Content:	0	Diameter:	0.419999986886978	
Sulfur Content:	0	Temperature:	77	
Ash Content:	0	Velocity:	43.31	
Throughput:	825 Tons	Gas Flow:	360	
Material:	Material	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Engineering Judgement	0	98.99	0.495
PM25-FIL	Engineering Judgement	0	98.99	0.495
Group ID: 408		Group Description: Cardboard Cores Saw		
Percent Quarterly Throughput				
Winter: 25		Spring: 25		Summer: 25
				Fall: 25
Days Per Week: 7		Weeks Per Year: 9		Hours Per Day: 4
				Hours Per Year: 1460
Process ID: 01		Process Description: Cardboard Cores Saw		
SCC:	30701399	Stack:	408	
	Pulp and Paper and Wood Products	Description:	CARDBOARD CORE SAW	
	Miscellaneous Paper Products	Stack Type:	Downward-Facing Vent	
	Other Not Classified	Height:	3	
Heat Content:	0	Diameter:	1.13999998569489	
Sulfur Content:	0	Temperature:	88	
Ash Content:	0	Velocity:	52.10	
Throughput:	740.3 Tons	Gas Flow:	3189	
Material:	Product	Input/Output:	Process Material Produced (Outut)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM25-FIL	Engineering Judgement	0	99.98	0.0379
PM10-FIL	Stack Test	0	99.98	0.0379
PM-CON	Stack Test	0	0	0.0379

Facility Emission Detail

Kaiser Aluminum Warrick LLC

Plant ID:1817300126

Report for 2023

Location: 4000 W SR 66,Newburgh,47630

NAICS: 331318 Other Aluminum Rolling, Drawing, and Extruding

Group ID: 409		Group Description: BLDG. 875 CARBON SILO		
Percent Quarterly Throughput				
Winter: 25		Spring: 25		Summer: 25
				Fall: 25
Days Per Week: 7		Weeks Per Year: 6		Hours Per Day: 24
				Hours Per Year: 6
Process ID: 01		Process Description: CARBON		
SCC:	39999999	Stack:	409	
	Miscellaneous Manufacturing Industries	Description:	BLDG. 875 CARBON SILO	
	Miscellaneous Industrial Processes	Stack Type:	Downward-Facing Vent	
	See Comment **	Height:	35	
Heat Content:	0	Diameter:	1	
Sulfur Content:	0	Temperature:	77	
Ash Content:	0	Velocity:	11.99	
Throughput:	39 Tons	Gas Flow:	565	
Material:	Material	Input/Output:	Process Material Used (Input)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
PM10-FIL	Engineering Judgement	0	98.99	0.0166
PM25-FIL	Engineering Judgement	0	98.99	0.0166
Group ID: 410		Group Description: BLDG. 849 TANK FARM		
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: COATING/SOLVENTS		
SCC:	40799999	Stack:	410	
	Organic Chemical Storage	Description:	BLGD. 849 TANK FARM	
	Miscellaneous	Stack Type:	Fugitive	
	Other Not Classified	Height:	0	
Heat Content:	0	Diameter:	0	
Sulfur Content:	0	Temperature:	0	
Ash Content:	0	Velocity:	0	
Throughput:	6038 1000 Gallon-Years	Gas Flow:	0	
Material:	Liquid	Input/Output:	Process Material Existing	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Engineering Judgement	0	0	6.22