

MARYLAND DEPARTMENT OF THE ENVIRONMENT  
 1800 Washington Boulevard, Suite 715 Baltimore Maryland 21230-1720  
 410-537-3000 1-800-633-6101 <http://www.mde.state.md.us>  
 Air and Radiation Management Administration  
 Air Quality Compliance Program  
 410-537-3220

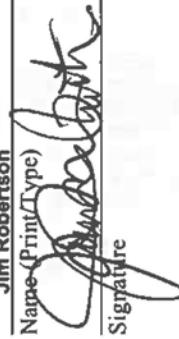
**FORM 1:**

**GENERAL FACILITY INFORMATION  
 EMISSIONS CERTIFICATION REPORT**

Calendar Year: 2024

		<b>Do Not Write In This Space</b>	
Facility Name	<b>Wheelabrator Baltimore, L.P.</b>	Date Received Regional	
Address	<b>1801 Annapolis Road</b>	Date Received State	
City	<b>Baltimore</b>	County	<b>City of Baltimore</b>
		Zip Code	<b>21230</b>
		AIRS Code	
		FINDS Code	
		SIC Code	
		Facility Number:	
		TEMPO ID:	
Reviewed by:			
C. SEASONAL PRODUCTION (%) if applicable)			
Winter (Dec.-Feb.)	Spring (Mar - May)	Summer (Jun - Aug)	Fall (Sept - Nov)
25.8%	23.4%	25.9%	24.9%
		Name	Date
D. Explain any increases or decreases in emissions from the previous calendar year for each registration at this facility.  Changes due to seasonal variability (weather / fuel related) as well as annual variability in stack test results.			
E. CONTROL DEVICE INFORMATION (for NOx and VOC sources only)			
Control Device	Capture Efficiency	Removal Efficiency	

I am familiar with the facility and the installations and sources for which this report is submitted. I have personally examined the information in this report, which consists of \_\_\_\_\_ pages (including attachments) and certify that the information is correct to the best of my knowledge.

**Jim Robertson**  
 Name (Print/Type)  
  
 Signature

<b>Plant Manager</b>	<b>3/29/2025</b>
Title	Date
	(410) 234-0808 x212
	Telephone

## CERTIFIED AIR POLLUTANTS EMISSIONS CERTIFICATION REPORT

**FORM 2:**

Calendar Year:

Facility Name: Wheedlebarter Ballmorce, L.P.  
Facility ID#: 24-S10-01886  
Pollutant: Carbon Monoxide (CO)

Emissions Estimation Method	Fugitive Emissions	5-Stack Emissions	Daily emissions (lbs/day) are lbs/operating day of source	TOSD: Typical Ozone Season Day means a typical day of the year during which conditions for photochemical conditions are most favorable, which is generally during sustained p and warm temperatures (April–September). This section needs to be completed only for VOC and NOx sources	Fuel: Include emissions for each fuel used. If more than one fuel is used, calculate and list emissions separately for each fuel. MSW = Municipal Solid Waste
A-1 U.S EPA Reference Method	C1-User calculated based on source	C2-User calculated based on material balance	C3-User calculating known based off the process	C4-User calculated by best guess/engineering judgement	C5-Solid Adsorption Technique
A-2 Other Particulate Sampling Train	test or other measurement	test or other measurement	using engineering knowledge	C-Solid Adsorption technique	A-3-Liquid Adsorption Technique
A-4-Solid Adsorption Method	agency emission factor	agency emission factor	not operational	C6-New construction, not operational	C7-Source closed, operation ceased
A-5-Other Specifying Out technique	CS-User calculated based on a State or local	CS-User calculated based on a State or local	closed, operated based on AP-42	C8-Computer calculated based on standard	C9-Other, Specify



## CENTERA AIR POLLUTANTS EMISSIONS CERTIFICATION REPORT

FORM 2:

2024

Calendar Year:

Facility ID# 24-510-01886

#### Pollutant

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[View Details](#)

**MSW = Municipal Solid Waste** include emissions for each fuel used, if more than one fuel is used, calculate and list emissions separately for each fuel.

**TOSD** Typical Ozone Season Day means a typical day of that period of the year during which conditions for photochemical conditions are most favorable, which is generally during sustained periods of direct sunlight and warm temperatures (April–September). This section needs to be completed only for VOC and NO<sub>x</sub> sources.

**S-Stack Emissions** F-Fugitive Emissions Daily emissions (lbs/day) are lbs/operating day of source

Measurement Summary Metrics	A-1 U.S. EPA Reference Method	A-2 Other Sampling Train	A-3 Liquid Absorption technique	A-4 Solid Absorption technique	A-5 Freezing Out technique	A-6 Other, Specify
C-5>User calculated based on a State or local agency emission factor	C-1>User calculated based on source test or other measurement	C-2>User calculated based on material balance	C-3>User calculated based on A-P-42 using engineering knowledge of the process	C-4>User calculated by best guess/engineering judgement	C-8-Computer calculated based on standard C7-Source closed, operational ceased	C-9-Other, Specify
C-6>New construction, not operational						
C-7-Old construction, not operational						
C-8-Computer calculated by best guess/engineering judgement						

Include emissions for each fuel used. If more than one fuel is used, calculate and list emissions separately for each fuel.

### A9-Other, Specify

A5-Freezing Out

A4-Solid Absorb

A3-1 Liquid Adsorbent

A1-U.S. EPA Rele  
A3 Other Rele

### Emission Estimation

Facility Name	Wheelerator Baltimore, L.P.	Facility ID#	24-510-01886	Pollutant	Emissions Certification Report									
					Actual Emissions	SCC Number	Fuel	Tons/yr	Lbs/day	Hrs/dy	Dys/wk	Wk/yr	Dys/yr	Lbs/day
2-24-0255 Boiler 1	MSW	S	23.1	136	24	7	52	339	24	00:00	24:00	C-I		
2-24-0256 Boiler 2	MSW	S	34.4	206	24	7	52	334	24	00:00	24:00	C-I		
2-24-0257 Boiler 3	MSW	S	36.7	233	24	7	52	315	24	00:00	24:00	C-I		
Total										94.2	75			
S-Stack Emissions F-Fugitive Emissions Daily emissions (lbs/day) are lbs/operating day of source														
TOSD Typical Ozone Season Day means a typical day of that period of the year during which conditions for photochemical conditions are most favorable, which is generally during sustained periods of direct sunlight and warm temperatures (April-September). This section needs to be completed only for VOC and NOx sources.														
Fuel include emissions for each fuel used. If more than one fuel is used, calculate and list emissions separately for each fuel. MSW = Municipal Solid Waste														
Emissions Estimation Method A1-U S EPA Reference Method A2-Other Particulate Sampling Train A3-Liquid Absorption Technique A4-Solid Absorption Technique A5-Freezing Dilution Technique A6-User calculated based on AP-42 C1-User calculated based on source C2-User calculated based on material balance C3-User calculated based on knowledge of the process C4-User calculated by best guess/engineering judgment C5-User calculated based on a State or local agency mission factor C6-New construction, not operational C7-Source closed, operation ceased C8-Computer calculated based on standard judgment														

**CRITERIA AIR POLLUTANTS**  
**EMISSIONS CERTIFICATION REPORT**

Calendar Year: 2024

Facility Name: Wheelerator Baltimore, L.P. Facility ID#: 24-510-01886 Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Equipment Description/ Registration Number	SCC Number	Fuel	Tons/yr	Lbs/day	Hrs/yr	Days/wk	Lbs/day	Hrs/yr	Days/schedule	Operating Schedule	Start	End	Emissions Methods	
2-24-0255 Boiler 1	S	MSW	0.04	0.23	24	7	52	339	24	00:00	24:00	C-I		
2-24-0256 Boiler 2	S	MSW	0.04	0.23	24	7	52	334	24	00:00	24:00	C-I		
2-24-0257 Boiler 3	S	MSW	0.04	0.23	24	7	52	315	24	00:00	24:00	C-I		
Total														

Freel      Include emissions for each fuel if more than one fuel is used. If more than one fuel is used, calculate and list emissions separately for each fuel.      MSW = Municipal Solid Waste

TOSD      Typical Season Day means a typical day of that period of the year during which conditions for photochemical conditions are most favorable, which is generally during sustained periods of direct sunlight and warm temperatures (April-September). This section needs to be completed only for VOC and NOx sources

S-Stack Emissions      F-Effluvial Emissions      Daily emissions (lbs/day) are lbs/operating day of source

A1-U.S. EPA Reference Method	A2-Other Particulate Sampling Train	A3-Liquid Absorption Technique	A4-Solid Absorption Technique	A5-Freezing Out technique	A6-Other, Specify
CS-User calculated based on source	CI-User calculated based on material balance	C2-User calculated based on material balance	C3-User calculating knowledge of the process	C4-User calculated by best guess/engineering judgment	
CS-User calculated based on State or local agency emission factor	CI-User calculated based on material balance	CI-User calculated based on material balance	CS-Source closed, operation ceased	CG-Computer calculated based on standard	
CG-New construction, not operational	CG-New construction	CG-Computer calculated based on standard	CG-Computer calculated by best guess/engineering judgment		
CG-User calculated based on material balance	CG-User calculated based on material balance	CG-User calculated based on material balance	CG-User calculated based on material balance		



**FORM 4:**

TOXIC AIR POLLUTANTS

## EMISSIONS CERTIFICATION REPORT

Facility Name: **Wheelabrator Baltimore, L.P.** Facility ID: **24-510-01886** Pollutant: **Arsenic\***

\*Please attach all calculations.

\*See Attachment I for the minimum reporting values

\*\*Control Device

S = Scrubber  
 B = Baghouse  
 ESP = Electrostatic Precipitator  
 A = Afterburner  
 C = Condenser  
 AD = Adsorption

<sup>1</sup> Emissions must be broken down by equipment registration number (ex. 9-0076 9-0077)

**FORM 4:**

TOXIC AIR POLLUTANTS

## EMISSIONS CERTIFICATION REPORT

Calendar Year: 2024

Facility Name: Wheelabrator Baltimore, L.P. Facility ID: 24-510-01886 Pollutant: Cadmium\*

\*Please attach all calculations.

\*See Attachment 1 for the minimum reporting values

## \*\*Control Device

S = Scrubber  
 B = Baghouse  
**ESP** = Electrostatic Precipitator  
 A = Afterburner  
 C = Condenser  
 AD = Adsorption  
 O = Other

**Emissions must be broken down by equipment registration number (ex. 9-0076, 9-0077)**

#### FORM 4:

Calendar Year: 2024

## EMISSIONS CERTIFICATION REPORT

Facility Name: **Wheelabrator Baltimore, L.P.** Facility ID: **24-510-01886** Pollutant: **Chromium\***

\*Please attach all calculations.

\*See Attachment I for the

\* \* Control Device

S = Scrubber  
 B = Baghouse  
 ESP = Electrostatic Precipitator  
 A = Afterburner  
 C = Condenser  
 AD = Adsorption  
 O = Oxidation

<sup>1</sup> Emissions must be broken down by equipment registration number (ex. 9-0076 9-0077)

#### FORM 4:

TOXIC AIR POLLUTANTS

EMISSIONS CERTIFICATION REPORT

Facility Name: Wheelabrator Baltimore, L.P. Facility ID: 24-510-01886 Pollutant: Copper\*

\*Please attach all calculations.

\*See Attachment 1 for the minimum reporting values

\* \* Control Device

B = Baghouse  
 C = Condenser  
 AD = Adsorption  
 O = Other  
 A = Afterburner  
 S = Scrubber  
 ESP = Electrostatic Precipitator

**! Emissions must be broken down by equipment registration number (ex 9-0076 9-0077)**

#### FORM 4:

Calendar Year: 2024

## EMISSIONS CERTIFICATION REPORT

Facility Name: Wheelabrator Baltimore, L.P. Facility ID: 24-510-01886 Pollutant: Dioxins/Furans

- \*Please attach all calculations.
- \*See Attachment 1 for the minimum reporting values
- \*\*Control Device
  - S = Scrubber
  - B = Baghouse
  - ESP = Electrostatic Precipitator

A = Afterburner  
C = Condenser  
AD = Adsorption  
O = Other

Emissions must be broken down by equipment registration number (ex 9-0076 9-0077)

**FORM 4:**

## TOXIC AIR POLLUTANTS

Calendar Year: 2024

## EMISSIONS CERTIFICATION REPORT

Facility Name: Wheelaibrator Baltimore, L.P. Facility ID: 24-510-01886 Pollutant: Formaldehyde

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\*Please attach all calculations.

\*See Attachment 1 for the minimum reporting values

### \* \* Control Device

B = Baghouse

E3I - ElektroInstall

C = Condenser

O = Other

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<sup>1</sup>Emissions must be broken down by equipment registration number (ex. 9-00076, 9-0077)

**FORM 4:**

TOXIC AIR POLLUTANTS

## EMISSIONS CERTIFICATION REPORT

Calendar Year: 2024

Facility Name: Wheelabrator Baltimore, L.P. Facility ID: 24-510-01886 Pollutant: Hydrogen Chloride\*

\*Please attach all calculations.

\*See Attachment 1 for the

本章要点

S = Scrubber  
B = Baghouse  
ESP = Electrostatic Precipitator  
A = Afterburner  
C = Condenser  
AD = Adsorption  
O = Ozone

**Emissions must be broken down by equipment registration number (ex 9-0076 9-0077)**

#### FORM 4:

## **TOXIC AIR POLLUTANTS**

## EMISSIONS CERTIFICATION REPORT

Calendar Year: 2024

Facility Name: **Wheelabrator Baltimore, L.P.** Facility ID: 24-510-01886 Pollutant: **Hydrogen Fluoride\***

\*Please attach all calculations.

\*See Attachment I for the minimum reporting interval.

**\*\*Control Device**

B = Baghouse

ESI-Electrostatic  
A = Afterburner

C = Condenser

AD = Auszubildender  
O = Other

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Equations must be broken down by equivalent oxidation numbers (an oxidation state of 0.0076, 0.0077).

#### FORM 4:

## EMISSIONS CERTIFICATION REPORT

Calendar Year: 2024

Facility Name: **Wheelabrator Baltimore, L.P.** Facility ID: **24-510-01886** Pollutant: **Manganese\***

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### Actual Emissions

\*Please attach all calculations.

\*See Attachment I for the minimum reporting values

\*\*Control Device

S = Scrubber

**B** = Baghouse  
**ESP** = Electrostatic Precipitator

ESI - Electronic Interpreter

C = Condenser

AD = Ads

Other

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**| Emissions must be broken down by environmental categorisation number (as 0 0076 0 0077)**

**FORM 4:**

## **TOXIC AIR POLLUTANTS**

## EMISSIONS CERTIFICATION REPORT

Facility Name: Wheelabrator Baltimore, L.P. Facility ID: 24-510-01836 Pollutant: Mercury\*

\*Please attach all calculations.

\*See Attachment 1 for the minimum reporting values

\*\*Control Device

B = Baghouse

ESP = Electrostatic

C = Condenser

AD = Ads  
O = Other

| Emissions must be broken down by equivalent variation in number (as 0.0076 0.0077)

#### FORM 4:

## EMISSIONS CERTIFICATION REPORT

Calendar Year: 2024

Facility Name: **Wheelabrator Baltimore, L.P.** Facility ID: 24-510-01886 Pollutant: Nickel\*

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\*Please attach all calculations.

\*See Attachment I for the minimum reporting values

\*\*Control Device

S = Scrubber  
 B = Baghouse  
 ESP = Electrostatic Precipitator  
 A = Afterburner  
 C = Condenser  
 AD = Adsorption  
 O = Other

**Emissions must be broken down by environment registration number (av 8 00076 0 00077)**

## FORM 6: Greenhouse Gases

## GREENHOUSE GAS AIR POLLUTANTS

Calendar Year: 2024

## EMISSIONS CERTIFICATION REPORT

Facility Name: **Wheelabator Baltimore** Facility ID: **24-510-01886** Pollutant: **Methane**

This form must be used to report  
Greenhouse gas emissions:

- carbon dioxide ( $\text{CO}_2$ )
  - methane ( $\text{CH}_4$ )
  - nitrous oxide ( $\text{N}_2\text{O}$ )
  - hydrofluorocarbons (HFCs)
  - perfluorocarbons (PFCs)
  - sulfur hexafluoride ( $\text{SF}_6$ )

\*Use a separate form for each pollutant.

\*Please attach all calculations

**! Emissions must be broken down by equipment registration number (ex 9-0076 9-0077)**

## FORM 6: Greenhouse Gases

GREENHOUSE GAS AIR POLLUTANTS

## EMISSIONS CERTIFICATION REPORT

Facility Name: Wheelabrator Baltimore Facility ID: 24-510-01886 Pollutant: Carbon Dioxide

Facility Name: Wheelabrator Baltimore Facility ID: 24-510-01886 Pollutant: Carbon Dioxide

Facility Name: Wheelabrator Baltimore Facility ID: 24-510-01886 Pollutant: Carbon Dioxide

This form must be used to report  
Greenhouse gas emissions.

- carbon dioxide ( $\text{CO}_2$ )
  - methane ( $\text{CH}_4$ )
  - nitrous oxide ( $\text{N}_2\text{O}$ )
  - hydrofluorocarbons (HFCs)
  - perfluorocarbons (PFCs)
  - sulfur hexafluoride ( $\text{SF}_6$ )

\*Use a separate form for each pollutant.

\*Please attach all calculations

**| Emissions must be broken down by equipment registration number (ex. 9-00076, 9-00077)**

## FORM 6: Greenhouse Gases

GREENHOUSE GAS AIR POLLUTANTS

Calendar Year: 2024

## EMISSIONS CERTIFICATION REPORT

Facility Name: Wheelabrator Baltimore Facility ID: 24-510-01886 Pollutant: Nitrous Oxide

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This form must be used to report  
Greenhouse gas emissions:

- carbon dioxide ( $\text{CO}_2$ )
  - methane ( $\text{CH}_4$ )
  - nitrous oxide ( $\text{N}_2\text{O}$ )
  - hydrofluorocarbons (HFCs)
  - perfluorocarbons (PFCs)
  - sulfur hexafluoride ( $\text{SF}_6$ )

\*Use a separate form for each pollutant.

\*Please attach all calculations

**| Emissions must be broken down by equipment registration number (ex. 9-0076, 9-0077)**

## FORM 6: Greenhouse Gases

GREENHOUSE GAS AIR POLLUTANTS

Calendar Year: 2024

## EMISSIONS CERTIFICATION REPORT

Facility Name: **Wheelabrator Baltimore, L.P.** Facility ID: 24-510-01886 Pollutant: **Hydrofluorocarbons**

or Baltimore, L.P. Facility ID: 24-510-01886

This form must be used to report  
Greenhouse gas emissions:

- carbon dioxide ( $\text{CO}_2$ )
  - methane ( $\text{CH}_4$ )
  - nitrous oxide ( $\text{N}_2\text{O}$ )
  - hydrofluorocarbons (HFCs)
  - perfluorocarbons (PFCs)
  - sulfur hexafluoride ( $\text{SF}_6$ )

\*Use a separate form for each pollutant.

\*Please attach all calculations

**Emissions must be broken down by equipment registration number (ex 9-0076, 9-0077)**

## FORM 6: Greenhouse Gases

## GREENHOUSE GAS AIR POLLUTANTS

Calendar Year: 2024

## EMISSIONS CERTIFICATION REPORT

Facility Name: Wheelerbrator Baltimore, L.P. Facility ID: 24-510-01886 Pollutant: Perfluorocarbons

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This form must be used to report  
Greenhouse gas emissions:

- carbon dioxide ( $\text{CO}_2$ )
  - methane ( $\text{CH}_4$ )
  - nitrous oxide ( $\text{N}_2\text{O}$ )
  - hydrofluorocarbons (HFCs)
  - perfluorocarbons (PFCs)
  - sulfur hexafluoride ( $\text{SF}_6$ )

\*Use a separate form for each pollutant.

\*Please attach all calculations

**! Emissions must be broken down by environment registration number (ex 9-00076 9-00077)**

**FORM 6: Greenhouse Gases**Calendar Year: **2024****GREENHOUSE GAS AIR POLLUTANTS****EMISSIONS CERTIFICATION REPORT**Facility Name: **Wheelabrator Baltimore, L.P.** Facility ID: **24-510-01886** Pollutant: **Sulfur hexafluoride**

Equipment Description/ Registration Number <sup>1</sup>	Actual Emissions		
	Tons/yr	Lbs/day	Lbs/hour
<b>2-24-0255 Boiler 1</b>			
<b>2-24-0256 Boiler 2</b>			
<b>2-24-0257 Boiler 3</b>			
<b>TOTALS</b>	<b>0</b>	<b>0</b>	<b>0</b>

This form must be used to report  
Greenhouse gas emissions:

- carbon dioxide (CO<sub>2</sub>)
- methane (CH<sub>4</sub>)
- nitrous oxide (N<sub>2</sub>O)
- hydrofluorocarbons (HFCs)
- perfluorocarbons (PFCs)
- sulfur hexafluoride (SF<sub>6</sub>)

\*Use a separate form for each pollutant.

\*Please attach all calculations

<sup>1</sup> Emissions must be broken down by equipment registration number (ex. 9-0076, 9-0077)

## FORM 5

BILLABLE TOXIC AIR POLLUTANTS

Calendar Year: 2023

EMISSIONS CERTIFICATION REPORT

Facility Name: Wheelabrator Baltimore, L.P.

Facility ID#: 24-510-01886

Chemical Name	CAS Number	Actual Emissions		Estimation Method
		Tons/year	Lbs/day	
carbon disulfide	S			A1-U.S. EPA Reference Method
	F			A2-Other Particulate Sampling Train
carbonyl sulfide	S			A3-Liquid Absorption Technique
	F			A4-Solid
chlorine	S			A5-Freezing Out Technique
	F			A9-Other, Specify
cyanide compounds	S			
	F			
hydrochloric acid	S	70.5	410.9	18.66
	F			A1, C1
hydrogen fluoride*	S	0.53	3.22	0.14
	F			A1, C1
methyl chloroform	S			C1:User calculated based on source test or other measurement
	F			C2:User calculated based on material balance using engineering knowledge of the process
methylene chloride	S			C3:User calculated based on AR-42
	F			C4:User calculated by best guess/engineering judgment
perchloroethyne	S			C5:User calculated based on a State or local agency factor
	F			C6:New construction, not operational
phosphine	S			C7:Source closed, operation ceased
	F			C8:Computer calculated based on standards
titanium tetrachloride	S			
	F			
<b>TOTALS</b>		<b>71.03</b>	<b>434.12</b>	<b>18.8</b>

This form to include only the eleven chemicals identified

S:Stock Emission  
F: fugitive Emission

Daily emissions (lbs/day) are the operating day of the source

PLEASE NOTE: Be sure to attach all data and calculations necessary to support the emissions figures shown above.

See Attachment I for minimum reporting values

\* Hydrogen fluoride results non-detect

Annual Emissions Calculations			
2024 Data Shaded			
Plant: Wheelabrator Baltimore, LP			
Unit 1	Unit 2	Unit 3	Total
231,545	229,446	211,742	672,733
Tons processed			
Total Operating Hours	8,134	8,024	7,553
Steam Flow Avg (klbs/hr)	187.1	188.1	184.4
Stack test air flow (dscfm 7% O2)	70,451	76,204	77,714
Stack Test Steam Flow	192.0	192.0	192.0
Average klb/hr			
Natural Gas Usage (Therms)	204,451	202,831	186,904
Availability	93%	92%	86%
Annual CEM Avg.-ppm 7% O2	Data Source		
SO2 (MW=64)	7	12	13
NOx (MW=46)	105	98	102
CO (MW=28)	17	18	16
Stack Test Ave-ppm 7% O2 Outlet			
HCl (MW=36.46)	13.7	11.6	18.5
HF (MW=20)***	<0.20	<0.20	<0.20
Dioxin ng/dscm 7%O2	0.60	1.00	3.70
Stack Test			
Steam flow Avg klb/hr	192	192	192
PM/PM10 (filterable)-lbs/hr	0.45	0.43	0.19
PM (condensable)-lbs/hr	11.1	2.8	9.6
VOC (THC as Methane) ppm7%	0.03	0.03	0.03
Stack Test			
Steam flow Avg. klb/hr	192	192	192
Cadmium - lbs/hr	1.03E-03	5.06E-05	1.98E-04
Lead - lbs/hr	8.14E-04	5.56E-04	3.27E-03
Mercury - lbs/hr	1.06E-04	1.11E-04	1.76E-04
Stack Test			
Other metals - Stack Test	Plant		
Arsenic - lbs/hr	7.29E-05	6.83E-05	3.30E-05
Chromium - lbs/hr	7.99E-04	5.06E-05	8.60E-04
Nickel - lbs/hr	6.90E-04	7.69E-04	1.23E-03
Others			
Copper-ug/dscm7%	3.91	3.91	3.91
Formaldehyde-ppm7%	0.193	0.193	0.193
Manganese- ug/dscm7%	3.30	4.00	3.30
CO2 Emission From eGGRT			
Others	Example Calculations:		
CopperMillbury 2019-22	CEM and Stack Test ppm @ 7% O2 Pollutants: lbs/hr = (ppm@7%O2/1000000)*(Airflow dscfm7%O2)*60*(Mol. Wt./385.3) where Airflow = Stack Test value		
Formaldyhyde (Hudson Falls 2023 Results ND 1/2 ND used)	Dioxin ng/dscm @ 7% O2: lbs/hr = (ng/dscm@7%O2)*(Airflow dscfm7%O2)*60/(453.59E9ng/lb*35.32 dscf/dscm) where Airflow = Stack Test value		
All condensable PM ave 2022-2024	Stack Test lb/hr Pollutants: lbs/hr = Stack Test Value tons/year = lbs/hr*Operating Hours*(Annual Steam Flow Avg/Stack Test Steam Flow)/2000 lbs/day = (tons/yr) * (2000 lb/ton) / Operating days		
Unit 1	Unit 2	Unit 3	
Equivalent Operating Days			
Ops Stats > of CEMS or Opstats	339	334	315
Unit 1	Unit 2	Unit 3	Plant
lbs/hr			
Stack Test	22015.94	23813.75	24285.625
Unit 1	Unit 2	Unit 3	Plant
lbs/day			
Stack Test	136	206	233
Ops Stats > of CEMS or Opstats	1,452	1,215	1,228
Stack Test	145	136	112
Unit 1	Unit 2	Unit 3	Plant
Tons per Year			
Stack Test	23.1	34.4	36.7
Ops Stats > of CEMS or Opstats	246.0	203.1	193.3
Stack Test	24.5	22.7	17.6
Unit 1	Unit 2	Unit 3	Plant
HCl+HF=			
Stack Test	128.1	117.8	188.1
Ops Stats > of CEMS or Opstats	0.94	1.20	1.14
Stack Test	3.70E-06	4.80E-06	2.49E-05
Unit 1	Unit 2	Unit 3	Plant
Tons per Year			
Stack Test	21.7	19.7	29.6
Ops Stats > of CEMS or Opstats	0.16	0.20	0.18
Stack Test	6.30E-07	8.00E-07	3.91E-06
Unit 1	Unit 2	Unit 3	Plant
lbs/day			
Stack Test	10.6	10.2	4.5
Ops Stats > of CEMS or Opstats	259.7	65.8	221.2
Stack Test	0.23	0.24	0.23
Unit 1	Unit 2	Unit 3	Plant
Tons per Year			
Stack Test	1.8	1.7	0.7
Ops Stats > of CEMS or Opstats	44.0	11.0	34.8
Stack Test	0.040	0.039	0.036
Unit 1	Unit 2	Unit 3	Plant
lbs/day			
Stack Test	#VALUE!	0.001	0.004
Ops Stats > of CEMS or Opstats	0.019	0.013	0.076
Stack Test	0.002	0.002	0.004
Unit 1	Unit 2	Unit 3	Plant
Tons per Year			
Stack Test	Ann	0.0002	0.0007
Ops Stats > of CEMS or Opstats	0.0032	0.0022	0.0119
Stack Test	0.0004	0.0004	0.0006
Unit 1	Unit 2	Unit 3	Plant
lbs/day			
Stack Test	0.0018	0.0018	0.0006
Ops Stats > of CEMS or Opstats	0.0189	0.0012	0.0013
Stack Test	0.0159	0.0179	0.0178
Unit 1	Unit 2	Unit 3	Plant
Tons per Year			
Stack Test	0.0003	0.0003	0.0001
Ops Stats > of CEMS or Opstats	0.0032	0.0002	0.0002
Stack Test	0.0027	0.0030	0.0028
Unit 1	Unit 2	Unit 3	Plant
lbs/day			
Stack Test	0.0242	0.0263	0.0261
Ops Stats > of CEMS or Opstats	1.40	1.65	1.61
Stack Test	0.021	0.027	0.022
Unit 1	Unit 2	Unit 3	Plant
Tons per Year			
Stack Test	0.0041	0.0044	0.0041
Ops Stats > of CEMS or Opstats	0.2378	0.2751	0.2539
Stack Test	0.0035	0.0045	0.0035
Unit 1	Unit 2	Unit 3	Plant
lbs/day			
Stack Test	1,547,566	1,461,858	1,447,238
Ops Stats > of CEMS or Opstats	4,456,663	262,248	244,374
Stack Test	4,456,663	227,729	734,351