

Draft/Final EI Year Submittal For:	
FID	744008100
Facility Name	AHLSTROM RHINELANDER LLC
Street Address	515 W Davenport St
City, State, Zip, County	Rhineland, WI, 545013328, ONEIDA
SIC	2621
NAICS	322121
# Employees	475
Area	566280 FT2

Facility Role	Name	Phone	Email
Responsible Official	McGreeham, Daniel	(715) 369-4233	daniel.mcgreeham@ahlstrom-munksjo.com
Billing Contact	Emond, Tom	(715) 369-4160	tom.emond@ahlstrom-munksjo.com
Air Management Contact	Emond, Tom	(715) 369-4160	tom.emond@ahlstrom-munksjo.com
DNR Emission Inventory Contact	Quinton LeSage	(920) 413-1792	quinton.lesage@wisconsin.gov

"Responsible official" means one of the following:

a) For a corporation, one of the following:

1. A president, secretary, treasurer or vice-president of the corporation in charge of a principal business function.
2. Any other person who performs similar policy or decision-making functions for the corporation.
3. A duly authorized representative of a person listed in subd. 1. or 2. if the representative is responsible for the overall operation of one or more manufacturing, production or operating facilities applying for or subject to a permit and the representative is approved in advance by the department.

b) For a partnership or sole proprietorship: a general partner or the proprietor, respectively.

c) For a municipality, or a state, federal or other public agency: either a principal executive officer or ranking elected official. For the purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency, for example, a regional administrator of EPA.

d) Notwithstanding pars. (a), (b) and (c), for affected sources, the designated representative.

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Deviation Questionnaire	Reporter Response
In 2023, did the facility have any deviations or leaks that resulted in emissions that may need to be included in the emissions inventory (e.g. example baghouse leak)?	No
If Yes, please explain which device(s) had deviations or leaks and how they are accounted for in the 2023 emissions inventory.	
Stack Test Questionnaire	Reporter Response
In 2023, was a stack test conducted?	Yes
If Yes, please explain.	Annual B28 CEMs RATA. CEMs data is used to report B28 NOx emissions.
EMS Questionnaire	Reporter Response
Does the facility have a formal environmental management system (EMS)?	No
Is the facility's environmental management system (EMS) reviewed and certified by an independent third party?	No
Is the facility a small business? (A small business is generally any business that employs less than 100 people and has annual receipts not in excess of \$750,000.)	No

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This table shows the 2023 emissions reported for the facility named above by pollutant as compared to the previous three years of reported emissions and the ch. NR 438, Wis. Adm. Code reporting threshold.

(f) = Federal HAP; (s) = State HAP; (fs) = Federal and State HAP

Pollutant	Cas No	2023 (lb/year)	2022 (lb/year)	2021 (lb/year)	2020 (lb/year)	NR 438 Reporting Threshold (lb/year)
CO	630-08-0	183,065.25	157,865.00	141,504.55	150,276.37	10000
LEAD	7439-92-1	1.08	302.66	678.96	496.43	400
LEAD CMP (f)	7439-92-1	0.64	80.74	180.57	132.17	400
NOX		108,644.65	927,775.24	1,949,348.30	1,450,938.99	10000
PM10		1,362.91	13,169.77	36,887.66	31,134.37	10000
PM10-CON		1,169.52				10000
PM2PT5		1,169.52				10000
SO2	7446-09-5	1,338.38	1,047,253.00	2,436,834.62	1,904,896.51	10000
AMMONIA (s)	7664-41-7	6,842.25	5,409.60	48,554.75	43,512.70	4097
ACETALDEHYDE (fs)	75-07-0	0.00			0.00	404
ARSENIC (fs)	7440-38-2	0.43	11.73	25.85	19.00	0.21
BARIUM (s)	7440-39-3	9.54	7.55	5.89	6.75	118
BENZENE (fs)	71-43-2	4.55	3.60	2.81	3.22	114
BENZO(JK)FLE	206-44-0	0.01	0.01	0.00	0.00	12
BERYLLIUM (fs)	7440-41-7		2.33	5.24	3.83	0.37
CADMIUM (fs)	7440-43-9	2.39	2.81	3.55	3.21	0.49
CARBON TETRA (fs)	56-23-5	0.00			0.00	59.2
CHLOROFORM (fs)	67-66-3	21.95			0.01	38.6
CHROMIUM MET (fs)	7440-47-3	3.04	27.21	57.62	42.88	118
CO2	124-38-9	260,221,047.59	323,788,005.09	425,524,776.58	377,546,183.44	200000000
COBALT (fs)	7440-48-4	0.18	0.14	0.11	0.13	4.71
COPPER (s)	7440-50-8	1.84	9.35	18.86	14.26	235
FORMALDEHYDE (fs)	50-00-0	162.65	128.70	100.39	114.99	68.3

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Pollutant	Cas No	2023 (lb/year)	2022 (lb/year)	2021 (lb/year)	2020 (lb/year)	NR 438 Reporting Threshold (lb/year)
H2SO4 (s)	7664-93-9		17,491.08	39,310.67	28,726.32	235
HEXANE (fs)	110-54-3	3,903.32	3,088.86	2,409.44	2,759.60	6000
HF (fs)	7664-39-3		3,720.45	8,361.60	6,110.25	803
HYDROGENCHLO (fs)	7647-01-0		6,994.45	15,719.81	11,487.27	1777
MANGANESE (fs)	7439-96-5	0.82	7.35	15.56	11.58	47.1
MERCURY ALL (fs)	7439-97-6	0.56	0.77	1.08	0.93	5.88
MERCURYALKYL (fs)	7439-97-6	0.33	0.32	0.27	0.31	2.35
MERCURYARYL (fs)	7439-97-6	0.33	0.32	0.27	0.31	23.5
METH ETH KET	78-93-3	0.01			0.00	6000
METHANE	74-82-8	4,987.57	4,194.91	3,636.17	3,933.51	10000000
METHANOL (f)	67-56-1	16.15			3.95	6000
METHYLENE CL (fs)	75-09-2	0.00			0.00	1890
MOLYBDENUM (s)	7439-98-7	2.39	1.89	1.47	1.69	1176
NAPHTHALENE (fs)	91-20-3	1.32	1.05	0.82	0.94	6000
NICKEL CMP (fs)	7440-02-0	4.55	54.45	117.09	86.73	3.42
NITROUSOXIDE (s)	10024-97-2	4,770.72	6,007.55	7,961.83	7,039.00	6000
PENTANE	78-78-4	5,638.12	4,461.69	3,480.30	3,986.09	100000
PM		16,767.03	167,266.40	357,016.34	252,374.27	10000
PM-CON		1,362.91				10000
PM-FIL		15,597.51				10000
PM10-FIL		193.39				10000
POM (f)		0.88	0.85	0.71	0.81	125
ROG		259,903.27	281,590.34	347,604.72	342,655.65	6000
SELENIUM (fs)	7782-49-2		56.05	125.98	92.06	47.1
TCE,111 (f)	71-55-6	0.00			0.00	6000
TOC		23,853.60	18,876.38	14,724.35	16,864.23	6000

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Pollutant	Cas No	2023 (lb/year)	2022 (lb/year)	2021 (lb/year)	2020 (lb/year)	NR 438 Reporting Threshold (lb/year)
TOLUENE (fs)	108-88-3	2,369.37	2,017.83	886.55	2,082.21	6000
TRICHLORETHY (fs)	79-01-6	0.00			0.00	444
XYLENES ISO (fs)	1330-20-7	307.00	262.00	89.00	228.00	6000

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The following items either require a correction or an explanation as to why the reported data is accurate and does not require correction. The USER_COMMENT is the explanation provided by the reporter for the associated QA Flag. Review MESSAGE KEY, below table, for a more detailed item description explanation.

2023 QA REPORT [EPA CLASS CODE: A; PART 70: Yes]						
ITEM DESC	USER COMMENT	LOCATION	OBSV 1	OBSV 2	OBSV 3	OBSV 4
Avg Ash content not entered (#31)	Process was not operated in 2023.	B26-01	Avg Ash content not entered	EF for pollutant(s): PM2PT5		
Avg Sulfur content not entered (#30)	Process was not operated in 2023.	B26-01	Avg Sulfur content not entered	EF for pollutant(s): PM2PT5		
Criteria outlier changes (#25)	No solid fuel use in 2023.	Facility Total	CO	LAST YR: 157,865.00 LBs	THIS YR: 183,065.25 LBs	
Tput: No change (#6)	50% tank capacity is being reported for average annual volume.	T02-01	LAST YR: 7,500.00 GAL	THIS YR: 7,500.00 GAL		
Tput: Current zero (#7)	Process was not operated in 2023.	B26-01	LAST YR: 24,803.00 TON	THIS YR: 0 TON		
Tput: Both zero (#8)	No fuel oil consumed in 2023. FO exists for NG curtailment purposes.	B28-02	LAST YR: 0 GAL	THIS YR: 0 GAL		
Tput: Both zero (#8)	Process is intermittent. No bleach use in 2023.	P42-01	LAST YR: 0 LB	THIS YR: 0 LB		
Criteria outlier changes (#25)	No solid fuel use in 2023.	Facility Total	NOX	LAST YR: 927,775.24 LBs	THIS YR: 108,644.65 LBs	
Criteria outlier changes (#25)	No solid fuel use in 2023.	Facility Total	PM	LAST YR: 167,266.40 LBs	THIS YR: 16,767.03 LBs	
Criteria outlier changes (#25)	No solid fuel use in 2023.	Facility Total	ROG	LAST YR: 281,590.34 LBs	THIS YR: 259,903.27 LBs	
Tput: Previous zero (#9)	Process is intermittent.	F99-00	THIS YR: 4,131.00 LB	LAST YR: .00 LB		

The following items either required a correction or an explanation as to why the reported data is accurate and does not require correction for the previous year's EI. The USER_COMMENT is the explanation provided by the reporter for the associated QA Flag. Review MESSAGE KEY, below table, for a more detailed item description explanation.

2022 QA REPORT FOR COMPARISON						
ITEM DESC	USER COMMENT	LOCATION	OBSV 1	OBSV 2	OBSV 3	OBSV 4
HAPs outlier changes (#26)	Solid fuel use on B26 was down substantially in 2022.	Facility Total	HF	LAST YR: 8,361.60 LBs	THIS YR: 3,720.45 LBs	
HAPs outlier changes (#26)	Solid fuel use on B26 was down substantially in 2022.	Facility Total	HYDROGENCHLO	LAST YR: 15,719.81 LBs	THIS YR: 6,994.45 LBs	
Emissions down; Tput up (#11)	PM emissions factors provided by DNR.	B30-01	LAST YR PM10: 1,505.82 LBs	THIS YR PM10: 181.30 LBs	LAST YR TPUT: 1,981,634.00 THERMS	THIS YR TPUT: 3,486,961.00 THERMS
Emissions down; Tput up (#11)	PM emissions factors provided by DNR.	P41-01	LAST YR PM10: 42.57 LBs	THIS YR PM10: 8.15 LBs	LAST YR TPUT: 141,931.00 THERMS	THIS YR TPUT: 156,760.00 THERMS
Emissions down; Tput up (#11)	PM emissions factors provided by DNR.	P30A-01	LAST YR PM10: 50.82 LBs	THIS YR PM10: 20.31 LBs	LAST YR TPUT: 169,421.00 THERMS	THIS YR TPUT: 390,670.00 THERMS
Emissions down; Tput up (#11)	PM emissions factors provided by DNR.	B28-01	LAST YR PM10: 7,890.01 LBs	THIS YR PM10: 649.37 LBs	LAST YR TPUT: 10,383,102.00 THERMS	THIS YR TPUT: 12,489,776.00 THERMS
Emissions down; Tput up (#11)	PM emissions factors provided by DNR.	B30-01	LAST YR PM2PT5: 1,505.82 LBs	THIS YR PM2PT5: 149.92 LBs	LAST YR TPUT: 1,981,634.00 THERMS	THIS YR TPUT: 3,486,961.00 THERMS
Emissions down; Tput up (#11)	PM emissions factors provided by DNR.	B28-01	LAST YR PM2PT5: 7,890.01 LBs	THIS YR PM2PT5: 536.98 LBs	LAST YR TPUT: 10,383,102.00 THERMS	THIS YR TPUT: 12,489,776.00 THERMS
Emissions up; Tput down (#10)	RTO efficiency (and associated emissions) updated based on most recent performance test.	P30-00	LAST YR ROG: 17,268.00 LBs	THIS YR ROG: 19,591.00 LBs	LAST YR TPUT: 295.00 TON	THIS YR TPUT: 277.50 TON
Emissions up; Tput down (#10)	RTO efficiency (and associated emissions) updated based on most recent performance test.	P30-00	LAST YR TOLUENE: 681.00 LBs	THIS YR TOLUENE: 2,012.00 LBs	LAST YR TPUT: 295.00 TON	THIS YR TPUT: 277.50 TON
Emissions up; Tput down (#10)	RTO efficiency (and associated emissions) updated based on most recent performance test.	P30-00	LAST YR XYLENES ISO: 89.00 LBs	THIS YR XYLENES ISO: 262.00 LBs	LAST YR TPUT: 295.00 TON	THIS YR TPUT: 277.50 TON
Tput: No change (#6)	50% tank capacity is used (maximum surface area)	T02-01	LAST YR: 7,500.00 GAL	THIS YR: 7,500.00 GAL		

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2022 QA REPORT FOR COMPARISON						
ITEM DESC	USER COMMENT	LOCATION	OBSV 1	OBSV 2	OBSV 3	OBSV 4
Tput: Both zero (#8)	No FO use in 2022.	B28-02	LAST YR: 0 GAL	THIS YR: 0 GAL		
Tput: Both zero (#8)	Emissions we based on P35 which has been discontinued and use of bleach at WWTP which did not occur in 2022.	F99-00	LAST YR: 0 LB	THIS YR: 0 LB		
Tput: Both zero (#8)	No bleach use at Shark pulper in 2022.	P42-01	LAST YR: 0 LB	THIS YR: 0 LB		
Criteria outlier changes (#25)	Solid fuel use on B26 was down substantially in 2022.	Facility Total	NOX	LAST YR: 1,949,348.30 LBs	THIS YR: 927,775.24 LBs	
Construction permit exists (#15)	B40 was added	Facility	NSR PERMIT ISSUED			
Criteria outlier changes (#25)	Solid fuel use on B26 was down substantially in 2022.	Facility Total	PM	LAST YR: 357,016.34 LBs	THIS YR: 167,266.40 LBs	
Criteria outlier changes (#25)	Solid fuel use on B26 was down substantially in 2022.	Facility Total	PM10	LAST YR: 36,887.66 LBs	THIS YR: 13,169.77 LBs	
Criteria outlier changes (#25)	Paper machine R8 was not run in 2022 leading to a substantial decrease in VOC emissions.	Facility Total	ROG	LAST YR: 347,604.72 LBs	THIS YR: 281,590.34 LBs	
Criteria outlier changes (#25)	Solid fuel use on B26 was down substantially in 2022.	Facility Total	SO2	LAST YR: 2,436,834.62 LBs	THIS YR: 1,047,253.00 LBs	

QA ITEM DESCRIPTION MESSAGE KEY

1	Sum of Federal HAPs > ROG. Please re-check Federal HAPs for the process as compared to ROG reported. If this error persists, work with the facility's compliance engineer to resolve it.
2	Sum of PM HAPs > PM. Please re-check PM HAPs for the process as compared to PM reported. If this error persists, work with the facility's compliance engineer to resolve it.
3	PM2.5 > PM10. Please re-check PM2.5 for the process as compared to PM10 reported because PM2.5 should not be greater than PM10. If this error persists, work with the facility's compliance engineer to resolve it.
4	PM2.5 > PM. Please re-check PM2.5 for the process as compared to PM reported because PM2.5 should not be greater than PM. If this error persists, work with the facility's compliance engineer to resolve it.
5	PM10 > PM. Please re-check PM10 for the process as compared to PM reported because PM10 should not be greater than PM. If this error persists, work with the facility's compliance engineer to resolve it.
6	Previous year and current year throughput are identical. Confirm the throughput for the process is accurate.
7	Throughput reported as zero. Confirm the throughput for the process is accurate.
8	Previous year and current year throughput zero. Confirm the throughput for the process is accurate. If the process requires end-dating because it no longer exists, work with the facility's compliance engineer.
9	Throughput was zero previous year and is not zero current year. Confirm the throughput for the process is accurate.
10	Confirm the emissions for the process are accurate because the reported emissions increased while the throughput decreased compared to the previous year.
11	Confirm the emissions for the process are accurate because the reported emissions decreased while the throughput increased compared to the previous year.
12	Sum of ROG Components > ROG. Please re-check ROG components for the process as compared to ROG total reported because the components should not be greater than the total. If this error persists, work with the facility's compliance engineer to resolve it.
13	Sum of TRS Components > TRS. Please re-check TRS components for the process as compared to the TRS reported because the components should not be greater than the total. If this error persists, work with the facility's compliance engineer to resolve it.
14	Sum of Glycol Components > Glycol Ethers. Confirm the emissions of glycol ethers for the process are accurate because the components should not be greater than the total.
15	Were new or removed processes accounted for in the EI YEAR emissions inventory?
16	<p>According to the department's records, the facility has an EPA Class Code of SM80. SM80 limits are as follows:</p> <ul style="list-style-type: none"> - PM, PM10, PM2.5, NOx, CO, ROG, SO2 < 100 tons each - Federal HAPs < 10 tons each - Federal HAPs < 25 tons combined <p>Confirm the emissions reported are accurate because the emissions reported may be exceeding permit limitations. If the emissions reported are accurate, discuss whether the facility is appropriately permitted with the facility's compliance engineer.</p>

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17	<p>According to the department's records, the facility has an EPA Class Code of SM. SM limits are as follows:</p> <ul style="list-style-type: none"> - PM, PM10, PM2.5, NOx, CO, ROG, SO2 < 80 tons each - Federal HAPs < 8 tons each - Federal HAPs < 20 tons combined <p>Confirm the emissions reported are accurate because the emissions reported may be exceeding permit limitations. If the emissions reported are accurate, discuss whether the facility is appropriately permitted with the facility's compliance engineer.</p>
18	<p>According to the department's records, the facility has an EPA Class Code of B. B limits are as follows:</p> <ul style="list-style-type: none"> - PM, PM10, PM2.5, NOx, CO, ROG, SO2 < 100 tons each - Federal HAPs < 10 tons each - Federal HAPs < 25 tons combined <p>Confirm the emissions reported are accurate because the emissions reported may be exceeding permit limitations. If the emissions reported are accurate, discuss whether the facility is appropriately permitted with the facility's compliance engineer.</p>
19	<p>According to the department's records, the facility has an EPA Class Code of Unknown. Confirm the emissions reported are accurate because the emissions reported may be exceeding permitting thresholds under ch. NR 407, Wis. Adm. Code. If the emissions reported are accurate, discuss whether the facility is appropriately permitted with the facility's compliance engineer.</p>
20	<p>According to the department's records, the facility has a ROPA. ROPA limits in an attainment area are as follows:</p> <ul style="list-style-type: none"> - PM, PM10, PM2.5, NOx, CO, ROG, SO2 < 25 tons each - Individual federal HAPs < 2.5 tons each - Federal HAPs < 6.25 tons combined - Single device < 10 tons ROG - Lead < 0.5 tons <p>Confirm the emissions reported are accurate because the emissions reported may be exceeding permit limitations. If the emissions reported are accurate, discuss whether the facility is appropriately permitted with the facility's compliance engineer.</p>
21	<p>According to the department's records, the facility has a ROPB. ROPB limits in an attainment area are as follows:</p> <ul style="list-style-type: none"> - PM, PM10, PM2.5, NOx, CO, ROG, SO2 < 50 tons each - Individual federal HAPs < 5 tons each - Federal HAPs < 12.5 tons combined - Single device < 10 tons ROG - Lead < 0.5 tons <p>Confirm the emissions reported are accurate because the emissions reported may be exceeding permit limitations. If the emissions reported are accurate, discuss whether the facility is appropriately permitted with the facility's compliance engineer.</p>

QA ITEM DESCRIPTION MESSAGE KEY

22	<p>According to the department's records, the facility has a ROPG. ROPG limits in an attainment area are as follows:</p> <ul style="list-style-type: none"> - PM, PM10, PM2.5, NOx, CO, ROG, SO2 < 80 tons each - Individual federal HAPs < 8 tons each - Federal HAPs < 20 tons combined - Lead < 0.5 tons <p>Confirm the emissions reported are accurate because the emissions reported may be exceeding permit limitations. If the emissions reported are accurate, discuss whether the facility is appropriately permitted with the facility's compliance engineer.</p>
23	<p>According to the department's records, the facility has a ROPG. ROPG limits in an attainment area are as follows:</p> <ul style="list-style-type: none"> - PM, PM10, PM2.5, NOx, CO, ROG, SO2 < 80 tons each - Individual federal HAPs < 8 tons each - Federal HAPs < 20 tons combined <p>Confirm the emissions reported are accurate because the emissions reported may be exceeding permit limitations. If the emissions reported are accurate, discuss whether the facility is appropriately permitted with the facility's compliance engineer.</p>
24	<p>According to the department's records, the facility is Prevention of Significant Deterioration (PSD) minor under ch. NR 405, Wis. Adm. Code.</p> <p>Confirm the emissions reported are accurate because the emissions of PM, PM10, PM2.5, NOx, CO, ROG, and/or SO2 reported may be exceeding permit limitations and may indicate that the facility is PSD major under ch. NR 405, Wis. Adm. Code. If the emissions reported are accurate, discuss whether the facility is appropriately permitted with the facility's compliance engineer.</p>
25	<p>Confirm the emissions are accurate because the reported PM, PM10, PM2.5, NOx, CO, ROG, and/or SO2 emissions have changed significantly from the previous year. Provide an explanation as to why the emissions have changed significantly (e.g. increased or decreased production, etc.).</p>
26	<p>Confirm the emissions are accurate because the reported HAP emissions have changed significantly from the previous year. Provide an explanation as to why the emissions have changed significantly (e.g. increased or decreased production, etc.).</p>
27	<p>Stack parameters are not complete. Finish reporting stack parameters for this device by first clicking on the device specified (left side of the screen) and then ensuring that the stack discharge direction, exhaust obstruction status, and stack height data are entered.</p>
28	<p>If throughput exists, hrs/day and days/yr schedule must both be >0.</p>

QA ITEM DESCRIPTION MESSAGE KEY

29	<p>Confirm the emissions reported are accurate because the hazardous air contaminant calculated exceeds the corresponding threshold amount listed in either column (c), (d), (e) or (f) of Table A to s. NR 445.07, Wis. Adm. Code. Requirements for Table A are specified in s. NR 445.07(6).</p> <ul style="list-style-type: none"> - Check the data entered for stack height, discharge direction, and exhaust obstruction status for each stack. - Check the In/Out Streams. Emissions not connected to a stack are assumed to be fugitive and in the stacks < 25 ft stack height category. - Evaluate whether each process is exempt under s. NR 445.07(5), Wis. Adm. Code in the Process Details section for each process. <p>Re-run the Emissions Calculator after making data corrections to update QA Flags. If the emissions, stack parameters, connections, and processes subject to s. NR 445.07 are accurate and the emissions calculator has been re-run then explain how the facility complies with s. NR 445.07, Wis. Adm. Code and discuss how to address ch. NR 445, Wis. Adm. Code requirements with the facility's compliance engineer.</p> <p>The memorandum dated October 20, 2005 (AM19-0029), on the left side of ARS, provides details of a method of demonstrating compliance when a facility has obstructed or non-vertical stacks or non-exempt potential fugitive emission sources. For additional information, including options for QA Flag comments, review the NR 445 Fact Sheet (AM-405) on the left side of ARS.</p>
30	<p>The average sulfur content (S) has not been defined for this process. To resolve this QA Flag:</p> <p>Enter the Avg Sulfur content value for the material used in or by this process, or</p> <p>Override the calculation by reporting emissions on the process' Reported tab for the pollutant(s) with a formula-based emission factor containing the variable S in the EmisFactor tab, or</p> <p>Enter a comment next to the QA Flag that explains why S should be zero for this process.</p>
31	<p>The average ash content (A) has not been defined for this process. To resolve this QA Flag:</p> <p>Enter the Avg Ash content value for the material used in or by this process, or</p> <p>Override the calculation by reporting emissions on the process' Reported tab for the pollutant(s) with a formula-based emission factor containing the variable A in the EmisFactor tab, or</p> <p>Enter a comment next to the QA Flag that explains why A should be zero for this process.</p>
32	<p>Process is not complete. Finish reporting emissions for this process by first clicking on the process specified (left side of the screen) and then following the instructions in the Page Specific Help link for that page. If this error persists, work with the facility's compliance engineer to resolve it.</p>
33	<p>Tput Max < Avg. Please re-check the actual Hrs/Dy, Dys/Wk, Dys/Yr; actual Annual Use; and Max Hourly Use on the Process Detail Page. The actual Avg Hourly Use is calculated based on the actual Annual Use and Hrs/Dy, Dys/Wk, and Dys/Yr. The actual Avg Hourly Use cannot be greater than the Max Hourly Use possible for the process. If this error persists, work with the facility's compliance engineer to resolve it.</p>
34	<p>Emissions are reported, yet tput is 0. Emissions cannot be reported without a tput/throughput being specified. If there are emissions to report for this process, click on the link to the process specified (left side of the screen), enter the Annual Use (tput/throughput), and click the Save button. If there are not emissions to report for this process, click on the link to the process specified (left side of screen), click on the Reported tab, Select the pollutant(s) with emissions, click the Delete Reported Emission button, and click the SAVE ALL button. If this error persists, work with the facility's compliance engineer to resolve it.</p>
35	<p>PM2PT5 is not emitted for this SCC code [per AM-528]. Click on the link to the process specified (left side of screen), click on the EmisFactor tab, enter a Factor of 0 for PM2PT5, and click the SAVE ALL button.</p>

QA ITEM DESCRIPTION MESSAGE KEY

36	PM2PT5 emissions may not be 0 for this SCC code [per AM-528]. Finish reporting PM2PT5 emissions for this process by first clicking on the process specified (left side of the screen) and then following the instructions in the Page Specific Help link for that page. If this error persists, work with the facility's compliance engineer to resolve it.
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This table lists the facility's processes for the current EI Year and shows their hours of operation.

ID	DEV CODE / PRO CODE	DEV NAME / PRO NAME	PROCESS MAX TPUT	2023 AVG TPUT	2023 TOTAL TPUT	HRS/ DAY	DYS/ WK	DYS/ YR	Q1 %	Q2 %	Q3 %	Q4 %
B26-01	BOILER / GENERIC	Cyclone boiler burning bituminous coal EI: CYCLONE / BITUMINOUS COAL	0 TON/HR	0 TON/HR	0 TON	0	0	0	25	25	25	25
B28-01	BOILER / GENERIC	Natural gas-fired steam generating 280 MMBTU/hour boiler. EI: NATURAL GAS FIRED BOILER / NATURAL GAS	2800 THERM/HR	1470.05594 THERM/HR	12877690 THERMS	24	7	365	25	25	25	25
B28-02	BOILER / GENERIC	Natural gas-fired steam generating 280 MMBTU/hour boiler. EI: NATURAL GAS FIRED BOILER / FUEL OIL COMBUSTION	0 GAL/HR	0 GAL/HR	0 GAL	0	0	0	25	25	25	25
B30-01	BOILER / GENERIC	NG boiler / Natural Gas	950 THERM/HR	504.93737957611 THERM/HR	4193000 THERMS	24	7	346	24	26	27	23
B40-01	BOILER / GENERIC	B40 Natural Gas Boiler / NATURAL GAS	950 THERM/HR	688.21685 THERM/HR	3798957 THERMS	24	7	230	39	28	3	30
C06-01	ESP / CONTROLLING	Electrostatic Precipitator with 3 fields; see attached drawings and plans. For cyclone coal boiler B26. EI: ELECTROSTATIC PRECIPITATOR - HIGH EFFICIENCY / ELECTROSTATIC PRECIPITATOR	N/A	N/A	N/A	24	7	346	43	21	1	35
C08-01	THERMAL OXIDIZER / CONTROLLING	Regenerative Thermal Oxidizer (RTO) / VOC OXIDIZER	N/A	N/A	N/A	24	7	256	25	25	25	25

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ID	DEV CODE / PRO CODE	DEV NAME / PRO NAME	PROCESS MAX TPUT	2023 AVG TPUT	2023 TOTAL TPUT	HRS/DAY	DYS/WK	DYS/YR	Q1 %	Q2 %	Q3 %	Q4 %
F50-01	GENERIC / GENERIC	Fugitive particulate emissions resulting from coal and ash handling, truck traffic, and storage pile activities EI: FUGITIVE DUST FROM COAL PILES, TRAFFIC / COAL PILE DUST, TRAFFIC	1 LB/HR	.01142 LB/HR	100 LB	24	7	365	25	25	25	25
F96-01	@ / GENERIC	INTAKE WATER DISINFECTION / DISINFECTION	340000 GAL/HR	750 GAL/HR	6.57 MGAL	24	7	365	25	25	25	25
F98-01	BOILER / GENERIC	NAT. GAS AIR MAKEUP UNITS / NATURAL GAS COMBUSTION	206 THERM/HR	93.44703 THERM/HR	818596 THERMS	24	7	365	25	25	25	25
F99-00	GENERIC / GENERIC	WASTEWATER TREATMENT PLANT /	15.6 LB/HR	.47158 LB/HR	4131 LB	24	7	365	25	25	25	25
P30-00	COATER / GENERIC	#3 Paper Coater EI: #3 PAPER COATER / THRUPUT	.77 TON/HR	.05993 TON/HR	378.3 TON	24	7	263	23	23	28	26
P30A-01	BOILER / GENERIC	Fuel Use for P30 / Natural Gas	70 THERM/HR	64.37060742972 THERM/HR	512905 THERMS	24	7	332	23	23	27	27
P40-00	@ / GENERIC	Paper Machine Sizing Processes - PMs #6, #7, #8 and #9. EI: PAPER MACHINE EMISSIONS / THRUPUT	.02 TON/HR	.01231 TON/HR	107.8 TON	24	7	365	25	25	25	25
P41-01	BOILER / GENERIC	# 4 Paper Coater EI: #4 PAPER COATER / NATURAL GAS COMBUSTION	40 THERM/HR	18.0685 THERM/HR	108411 THERMS	24	7	250	19	25	25	31
P41A-01	COATING LINE / GENERIC	4 Coater / THRUPUT	6 LB/HR	.92717 LB/HR	5207 LB	24	7	234	27	24	22	27

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ID	DEV CODE / PRO CODE	DEV NAME / PRO NAME	PROCESS MAX TPUT	2023 AVG TPUT	2023 TOTAL TPUT	HRS/ DAY	DYS/ WK	DYS/ YR	Q1 %	Q2 %	Q3 %	Q4 %
P42-01	@ / GENERIC	Broke Repulper for Producing Sterilizable Grade Stock EI: REPULPER USING SODIUM HYPOCHLORITE / REPULPING WITH SODIUM HYPOCHLORITE	0 LB/HR	0 LB/HR	0 LB	24	1	1	25	25	25	25
S08-01	STACK / DISCHARGING	Stack for natural gas Boiler B28; In stack NOX monitor EI: SERVES B28 / BOILER #8	N/A	N/A	N/A	24	7	143				
S09-01	STACK / DISCHARGING	Serves cyclone coal boiler B26. Instack opacity monitor. EI: SERVES B26 Stack height in English units changed 10/11/2016 to correspond to requirements of administrative order AM-15-01. / BOILER #7 B26	N/A	N/A	N/A	24	7	344				
S11-01	STACK / DISCHARGING	10/11/2016: Serves natural gas-fired boilers B30 and B31. EI is incorrect and has not been updated. According to EI: SERVES B20, B21, B22, B23 (PLANT #1 - #4) / EXHAUSTS BOILER B20-B23 (FACILITY #1 - #4),	N/A	N/A	N/A	24	7	250				
S13-01	STACK / DISCHARGING	Serves #3 coater P30. EI: SERVES #3 COATER Stack height changed 10/11/2016 to correspond to 2004 modeling memo and requirements of 744008100-P20. / #3 COATER	N/A	N/A	N/A	24	7	283				
S15-01	STACK / DISCHARGING	Serves lignin dryer P32. EI: LIGNON DRYER / LIGNON DRYER	N/A	N/A	N/A	0	0	0				

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ID	DEV CODE / PRO CODE	DEV NAME / PRO NAME	PROCESS MAX TPOT	2023 AVG TPOT	2023 TOTAL TPOT	HRS/ DAY	DYS/ WK	DYS/ YR	Q1 %	Q2 %	Q3 %	Q4 %
S16-01	STACK / DISCHARGING	Serves #4 Coater P41. EI: #4 COATER DRYER EXHAUST / DISCHARGING	N/A	N/A	N/A	24	7	249				
S19-01	STACK / DISCHARGING	Vapor Compressor stack, P37. Removed. /	N/A	N/A	N/A	24	7	365	25	25	25	25
S20-01	STACK / DISCHARGING	Represents 4 paper machine exhausts, P40. EI: PAPER MACHINE EXHAUSTS /	N/A	N/A	N/A	24	7	363				
S21-01	STACK / DISCHARGING	Serves shark pulper exhaust, P42. EI: SHARK REPULPER EXHAUST / SHARK REPULPER EXHAUST	N/A	N/A	N/A	24	7	12	57	17	13	13
T02-01	TANK, FIXED / BREATHING	HEPTANE STORAGE TANK / HEPTANE STORAGE TANK - ABOVE GROUND	N/A	N/A	N/A	24	7	365	25	25	25	25
T02-02	TANK, FIXED / WORKING	HEPTANE STORAGE TANK / HEPTANE STORAGE TANK	N/A	N/A	N/A	24	7	365	25	25	25	25

If a device is connected to another device or stack, it should show up in this table as such.
Devices not conneted to stacks will be assumed to have fugitive emissions.

DEVICE STREAMS

B26-01 [100%] C06-01

C06-01 [100%] S09-01

B28-01 [100%] S08-01

B28-02 [100%] S08-01

P30-00 [100%] C08-01

C08-01 [100%] S13-01

P40-00 [100%] S20-01

P41-01 [100%] S16-01

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Stack parameters are used to help determine compliance status with respect to ch. NR 445, Wis. Adm. Code. Stack Height, Exhaust Gas Discharge Direction, and whether each stack is obstructed are required fields.

STK Device- Process ID	Facility Reference ID	Name	Begin Operation Date	Stack Height (m)	Stack Diameter at Outlet (m)	Normal Exhaust Gas Temp. (K)	Exit Velocity (m/s)	Exhaust Gas Discharge Direction	Stack Obstruction?
S11-01		10/11/2016: Serves natural gas-fired boilers B30 and B31. EI is incorrect and has not been updated. According to EI: SERVES B20, B21, B22, B23 (PLANT #1 - #4)		60.96	3.51	436	7.12	Vertical	No
S09-01		Serves cyclone coal boiler B26. Instack opacity monitor. EI: SERVES B26 Stack height in English units changed 10/11/2016 to correspond to requirements of administrative order AM-15-01.		63.09	2.13	428.6	12.69	Vertical	No
S08-01		Stack for natural gas Boiler B28; In stack NOX monitor EI: SERVES B28	02/01/1996	35.66	1.68	439	20.08	Vertical	No

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STK Device- Process ID	Facility Reference ID	Name	Begin Operation Date	Stack Height (m)	Stack Diameter at Outlet (m)	Normal Exhaust Gas Temp. (K)	Exit Velocity (m/s)	Exhaust Gas Discharge Direction	Stack Obstruction?
S13-01		Serves #3 coater P30. EI: SERVES #3 COATER Stack height changed 10/11/2016 to correspond to 2004 modeling memo and requirements of 744008100-P20.		12.8	0.91	322	14.87	Vertical	No
S15-01		Serves lignin dryer P32. EI: LIGNON DRYER		18.28	0.82	355.3	23.67	Vertical	No
S16-01		Serves #4 Coater P41. EI: #4 COATER DRYER EXHAUST	04/11/1995	10.66	1.21	333.1	8.2	Vertical	No
S20-01		Represents 4 paper machine exhausts, P40. EI: PAPER MACHINE EXHAUSTS		18.28	0.91	324.8	7.25	Vertical	No
S21-01		Serves shark pulper exhaust, P42. EI: SHARK REPULPER EXHAUST		9.14	0.45	310.9	27.01	Vertical	No
S19-01		Vapor Compressor stack, P37. Removed.		0	0	0	0	Vertical	No

EI Year Emissions = Reported Emissions, if emissions are reported

EI Year Emissions = Calculated Emissions, if emissions are not reported

Calculated Emissions = Throughput x Emission Factor x (1-Control Efficiency)

2023 EMISSIONS CALCULATIONS BY PROCESS AND POLLUTANT							
Device-Process	Pollutant	Throughput	Emission Factor	Origin	Control Efficiency %	Calculated Emissions (Tons)	Reported Emissions (Tons)
B28-01	CO	12,877,690.00 THERMS	84 LB / MMCF	EPA	0	54.07842829	--
B28-01	LEAD	12,877,690.00 THERMS	.0005 LB / MMCF	EPA	0	0.000321895	--
B28-01	LEAD CMP	12,877,690.00 THERMS	.0005 LB / MMCF	DNR	0	0.000321895	--
B28-01	NOX	12,877,690.00 THERMS	34 LB / MMCF	EPA	0	21.88888764	--
B28-01	PM10	12,877,690.00 THERMS	.52 LB / MMCF	EPA	0	0.334771225	--
B28-01	PM2PT5	12,877,690.00 THERMS	.43 LB / MMCF	EPA	0	0.27683005	--
B28-01	SO2	12,877,690.00 THERMS	.6 LB / MMCF	EPA	0	0.38627449	--
B28-01	AMMONIA	12,877,690.00 THERMS	3.2 LB / MMCF	EPA	0	2.0601306	--
B28-01	ARSENIC	12,877,690.00 THERMS	-- --		Undefined	--	0.00012876
B28-01	BARIUM	12,877,690.00 THERMS	.0044 LB / MMCF	EPA	0	0.00283268	--
B28-01	BENZENE	12,877,690.00 THERMS	.0021 LB / MMCF	EPA	0	0.00135196	--
B28-01	BENZO(JK)FLE	12,877,690.00 THERMS	.000003 LB / MMCF	EPA	0	0.00000193	--
B28-01	CADMIUM	12,877,690.00 THERMS	-- --		Undefined	--	0.00070817
B28-01	CHROMIUM MET	12,877,690.00 THERMS	.0014 LB / MMCF	EPA	0	0.000901305	--
B28-01	CO2	12,877,690.00 THERMS	120000 LB / MMCF	EPA	0	77254.89755621	--
B28-01	COBALT	12,877,690.00 THERMS	.000084 LB / MMCF	EPA	0	0.00005408	--
B28-01	COPPER	12,877,690.00 THERMS	-- --		Undefined	--	0.00054722
B28-01	FORMALDEHYDE	12,877,690.00 THERMS	-- --		Undefined	--	0.04828431
B28-01	HEXANE	12,877,690.00 THERMS	1.8 LB / MMCF	EPA	0	1.158823465	--
B28-01	MANGANESE	12,877,690.00 THERMS	-- --		Undefined	--	0.00024464
B28-01	MERCURY ALL	12,877,690.00 THERMS	.00026 LB / MMCF	EPA	0	0.000167385	--
B28-01	MERCURYALKYL	12,877,690.00 THERMS	.00026 LB / MMCF	DNR	0	0.000167385	--
B28-01	MERCURYARYL	12,877,690.00 THERMS	.00026 LB / MMCF	DNR	0	0.000167385	--
B28-01	METHANE	12,877,690.00 THERMS	2.3 LB / MMCF	EPA	0	1.48071887	--
B28-01	MOLYBDENUM	12,877,690.00 THERMS	.0011 LB / MMCF	EPA	0	0.00070817	--
B28-01	NAPHTHALENE	12,877,690.00 THERMS	.00061 LB / MMCF	EPA	0	0.00039271	--

2023 EMISSIONS CALCULATIONS BY PROCESS AND POLLUTANT

Device-Process	Pollutant	Throughput	Emission Factor	Origin	Control Efficiency %	Calculated Emissions (Tons)	Reported Emissions (Tons)
B28-01	NICKEL CMP	12,877,690.00 THERMS	-- --		Undefined	--	0.00135196
B28-01	NITROUSOXIDE	12,877,690.00 THERMS	2.2 LB / MMCF	EPA	0	1.41633979	--
B28-01	PENTANE	12,877,690.00 THERMS	2.6 LB / MMCF	EPA	0	1.673856115	--
B28-01	PM	12,877,690.00 THERMS	7.6 LB / MMCF	EPA	0	4.89281018	--
B28-01	POM	12,877,690.00 THERMS	.00068145 LB / MMCF	EPA	0	0.00043871	--
B28-01	ROG	12,877,690.00 THERMS	5.5 LB / MMCF	EPA	0	3.54084947	--
B28-01	TOC	12,877,690.00 THERMS	11 LB / MMCF	EPA	0	7.081698945	--
B28-01	TOLUENE	12,877,690.00 THERMS	-- --		Undefined	--	0.00218889
B30-01	CO	4,193,000.00 THERMS	84 LB / MMCF	EPA	0	17.608037605	--
B30-01	LEAD	4,193,000.00 THERMS	.0005 LB / MMCF	EPA	0	0.00010481	--
B30-01	NOX	4,193,000.00 THERMS	100 LB / MMCF	EPA	0	20.961949535	--
B30-01	PM10	4,193,000.00 THERMS	.52 LB / MMCF	EPA	0	0.10900214	--
B30-01	PM2PT5	4,193,000.00 THERMS	.43 LB / MMCF	EPA	0	0.090136385	--
B30-01	SO2	4,193,000.00 THERMS	.6 LB / MMCF	EPA	0	0.125771695	--
B30-01	AMMONIA	4,193,000.00 THERMS	3.2 LB / MMCF	EPA	0	0.670782385	--
B30-01	ARSENIC	4,193,000.00 THERMS	.0002 LB / MMCF	EPA	0	0.000041925	--
B30-01	BARIUM	4,193,000.00 THERMS	.0044 LB / MMCF	EPA	0	0.000922325	--
B30-01	BENZENE	4,193,000.00 THERMS	.0021 LB / MMCF	EPA	0	0.0004402	--
B30-01	BENZO(JK)FLE	4,193,000.00 THERMS	.000003 LB / MMCF	EPA	0	0.00000063	--
B30-01	CADMIUM	4,193,000.00 THERMS	.0011 LB / MMCF	EPA	0	0.00023058	--
B30-01	CHROMIUM MET	4,193,000.00 THERMS	.0014 LB / MMCF	EPA	0	0.000293465	--
B30-01	CO2	4,193,000.00 THERMS	120000 LB / MMCF	EPA	0	25154.33943923	--
B30-01	COBALT	4,193,000.00 THERMS	.000084 LB / MMCF	EPA	0	0.00001761	--
B30-01	COPPER	4,193,000.00 THERMS	.00085 LB / MMCF	EPA	0	0.000178175	--
B30-01	FORMALDEHYDE	4,193,000.00 THERMS	.075 LB / MMCF	EPA	0	0.01572146	--
B30-01	HEXANE	4,193,000.00 THERMS	1.8 LB / MMCF	EPA	0	0.37731509	--
B30-01	MANGANESE	4,193,000.00 THERMS	.00038 LB / MMCF	EPA	0	0.000079655	--
B30-01	MERCURY ALL	4,193,000.00 THERMS	.00026 LB / MMCF	EPA	0	0.0000545	--
B30-01	METHANE	4,193,000.00 THERMS	2.3 LB / MMCF	EPA	0	0.48212484	--
B30-01	MOLYBDENUM	4,193,000.00 THERMS	.0011 LB / MMCF	EPA	0	0.00023058	--

2023 EMISSIONS CALCULATIONS BY PROCESS AND POLLUTANT

Device-Process	Pollutant	Throughput	Emission Factor	Origin	Control Efficiency %	Calculated Emissions (Tons)	Reported Emissions (Tons)
B30-01	NAPHTHALENE	4,193,000.00 THERMS	.00061 LB / MMCF	EPA	0	0.00012787	--
B30-01	NICKEL CMP	4,193,000.00 THERMS	.0021 LB / MMCF	EPA	0	0.0004402	--
B30-01	NITROUSOXIDE	4,193,000.00 THERMS	2.2 LB / MMCF	EPA	0	0.46116289	--
B30-01	PENTANE	4,193,000.00 THERMS	2.6 LB / MMCF	EPA	0	0.54501069	--
B30-01	PM	4,193,000.00 THERMS	7.6 LB / MMCF	EPA	0	1.593108165	--
B30-01	ROG	4,193,000.00 THERMS	5.5 LB / MMCF	EPA	0	1.152907225	--
B30-01	TOC	4,193,000.00 THERMS	11 LB / MMCF	EPA	0	2.30581445	--
B30-01	TOLUENE	4,193,000.00 THERMS	.0034 LB / MMCF	EPA	0	0.000712705	--
B40-01	CO	3,798,957.00 THERMS	84 LB / MMCF	EPA	0	15.95329781	--
B40-01	LEAD	3,798,957.00 THERMS	.0005 LB / MMCF	EPA	0	0.00009496	--
B40-01	NOX	3,798,957.00 THERMS	36 LB / MMCF	EPA	0	6.837127635	--
B40-01	PM10	3,798,957.00 THERMS	.52 LB / MMCF	EPA	0	0.09875851	--
B40-01	PM2PT5	3,798,957.00 THERMS	.43 LB / MMCF	EPA	0	0.08166569	--
B40-01	SO2	3,798,957.00 THERMS	.6 LB / MMCF	EPA	0	0.113952125	--
B40-01	AMMONIA	3,798,957.00 THERMS	3.2 LB / MMCF	EPA	0	0.60774468	--
B40-01	ARSENIC	3,798,957.00 THERMS	.0002 LB / MMCF	EPA	0	0.000037985	--
B40-01	BARIUM	3,798,957.00 THERMS	.0044 LB / MMCF	EPA	0	0.00083565	--
B40-01	BENZENE	3,798,957.00 THERMS	.0021 LB / MMCF	EPA	0	0.00039883	--
B40-01	BENZO(JK)FLE	3,798,957.00 THERMS	.000003 LB / MMCF	EPA	0	0.00000057	--
B40-01	CADMIUM	3,798,957.00 THERMS	.0011 LB / MMCF	EPA	0	0.00020891	--
B40-01	CHROMIUM MET	3,798,957.00 THERMS	.0014 LB / MMCF	EPA	0	0.00026589	--
B40-01	CO2	3,798,957.00 THERMS	120000 LB / MMCF	EPA	0	22790.425445515	--
B40-01	COBALT	3,798,957.00 THERMS	.000084 LB / MMCF	EPA	0	0.000015955	--
B40-01	COPPER	3,798,957.00 THERMS	.00085 LB / MMCF	EPA	0	0.00016143	--
B40-01	FORMALDEHYDE	3,798,957.00 THERMS	.075 LB / MMCF	EPA	0	0.014244015	--
B40-01	HEXANE	3,798,957.00 THERMS	1.8 LB / MMCF	EPA	0	0.34185638	--
B40-01	MANGANESE	3,798,957.00 THERMS	.00038 LB / MMCF	EPA	0	0.00007217	--
B40-01	MERCURY ALL	3,798,957.00 THERMS	.00026 LB / MMCF	EPA	0	0.00004938	--
B40-01	METHANE	3,798,957.00 THERMS	2.3 LB / MMCF	EPA	0	0.43681649	--
B40-01	MOLYBDENUM	3,798,957.00 THERMS	.0011 LB / MMCF	EPA	0	0.00020891	--

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Device-Process	Pollutant	Throughput		Emission Factor	Origin	Control Efficiency %	Calculated Emissions (Tons)	Reported Emissions (Tons)
B40-01	NAPHTHALENE	3,798,957.00	THERMS	.00061 LB / MMCF	EPA	0	0.00011585	--
B40-01	NICKEL CMP	3,798,957.00	THERMS	.0021 LB / MMCF	EPA	0	0.00039883	--
B40-01	NITROUSOXIDE	3,798,957.00	THERMS	2.2 LB / MMCF	EPA	0	0.417824465	--
B40-01	PENTANE	3,798,957.00	THERMS	2.6 LB / MMCF	EPA	0	0.49379255	--
B40-01	PM	3,798,957.00	THERMS	7.6 LB / MMCF	EPA	0	1.44339361	--
B40-01	ROG	3,798,957.00	THERMS	5.5 LB / MMCF	EPA	0	1.044561165	--
B40-01	TOC	3,798,957.00	THERMS	11 LB / MMCF	EPA	0	2.089122335	--
B40-01	TOLUENE	3,798,957.00	THERMS	.0034 LB / MMCF	EPA	0	0.00064573	--
F50-01	PM	100.00	LB	1 LB / LB	DNR	0	0.05	--
F96-01	AMMONIA	6.57	MGAL	19 LB / MGAL	DNR	0	0.062415	--
F96-01	CHLOROFORM	6.57	MGAL	-- --		Undefined	--	0.004075
F96-01	ROG	6.57	MGAL	8.9 LB / MGAL	DNR	0	0.0292365	--
F98-01	CO	818,596.00	THERMS	84 LB / MMCF	EPA	0	3.437602945	--
F98-01	LEAD	818,596.00	THERMS	.0005 LB / MMCF	EPA	0	0.00002046	--
F98-01	NOX	818,596.00	THERMS	100 LB / MMCF	EPA	0	4.09238446	--
F98-01	PM10	818,596.00	THERMS	3 LB / MMCF	DNR	0	0.122771535	--
F98-01	PM2PT5	818,596.00	THERMS	3 LB / MMCF	EPA	0	0.122771535	--
F98-01	SO2	818,596.00	THERMS	.6 LB / MMCF	EPA	0	0.024554305	--
F98-01	AMMONIA	818,596.00	THERMS	.49 LB / MMCF	EPA	0	0.020052685	--
F98-01	ARSENIC	818,596.00	THERMS	-- --		Undefined	--	0.000008185
F98-01	BARIUM	818,596.00	THERMS	.0044 LB / MMCF	EPA	0	0.000180065	--
F98-01	BENZENE	818,596.00	THERMS	.0021 LB / MMCF	EPA	0	0.00008594	--
F98-01	BENZO(JK)FLE	818,596.00	THERMS	.000003 LB / MMCF	EPA	0	0.000000125	--
F98-01	CADMIUM	818,596.00	THERMS	-- --		Undefined	--	0.000045015
F98-01	CHROMIUM MET	818,596.00	THERMS	-- --		Undefined	--	0.000057295
F98-01	CO2	818,596.00	THERMS	120000 LB / MMCF	EPA	0	4910.86135168	--
F98-01	COBALT	818,596.00	THERMS	.000084 LB / MMCF	EPA	0	0.00000344	--
F98-01	COPPER	818,596.00	THERMS	-- --		Undefined	--	0.000034785
F98-01	FORMALDEHYDE	818,596.00	THERMS	-- --		Undefined	--	0.00306929
F98-01	HEXANE	818,596.00	THERMS	1.8 LB / MMCF	EPA	0	0.07366292	--

2023 EMISSIONS CALCULATIONS BY PROCESS AND POLLUTANT								
Device-Process	Pollutant	Throughput		Emission Factor	Origin	Control Efficiency %	Calculated Emissions (Tons)	Reported Emissions (Tons)
F98-01	MANGANESE	818,596.00	THERMS	-- --		Undefined	--	0.00001555
F98-01	MERCURY ALL	818,596.00	THERMS	.00026 LB / MMCF	EPA	0	0.00001064	--
F98-01	METHANE	818,596.00	THERMS	2.3 LB / MMCF	EPA	0	0.094124845	--
F98-01	MOLYBDENUM	818,596.00	THERMS	.0011 LB / MMCF	EPA	0	0.000045015	--
F98-01	NAPHTHALENE	818,596.00	THERMS	.00061 LB / MMCF	EPA	0	0.000024965	--
F98-01	NICKEL CMP	818,596.00	THERMS	-- --		Undefined	--	0.00008594
F98-01	NITROUSOXIDE	818,596.00	THERMS	2.2 LB / MMCF	EPA	0	0.09003246	--
F98-01	PENTANE	818,596.00	THERMS	2.6 LB / MMCF	EPA	0	0.106401995	--
F98-01	PM	818,596.00	THERMS	7.6 LB / MMCF	EPA	0	0.31102122	--
F98-01	ROG	818,596.00	THERMS	5.5 LB / MMCF	EPA	0	0.225081145	--
F98-01	TOC	818,596.00	THERMS	11 LB / MMCF	EPA	0	0.45016229	--
F98-01	TOLUENE	818,596.00	THERMS	.0034 LB / MMCF	EPA	0	0.00013914	--
F99-00	ACETALDEHYDE	4,131.00	LB	.000796 LB / MEGAGRAM	EPA	0	0.000000745	--
F99-00	BENZENE	4,131.00	LB	.000201 LB / MEGAGRAM	EPA	0	0.00000019	--
F99-00	CARBON TETRA	4,131.00	LB	.000897 LB / MEGAGRAM	EPA	0	0.00000084	--
F99-00	CHLOROFORM	4,131.00	LB	-- --		Undefined	--	0.0069
F99-00	FORMALDEHYDE	4,131.00	LB	.00712 LB / MEGAGRAM	EPA	0	0.00000667	--
F99-00	METH ETH KET	4,131.00	LB	.003 LB / TON	EPA	0	0.0000031	--
F99-00	METHANOL	4,131.00	LB	8.62 LB / MEGAGRAM	EPA	0	0.008074655	--
F99-00	METHYLENE CL	4,131.00	LB	.000152 LB / MEGAGRAM	EPA	0	0.00000014	--
F99-00	ROG	4,131.00	LB	1 LB / LB	MBAL	0	2.0655	--
F99-00	TCE,111	4,131.00	LB	.000346 LB / MEGAGRAM	EPA	0	0.000000325	--
F99-00	TRICHLORETHY	4,131.00	LB	.0000732 LB / MEGAGRAM	EPA	0	0.00000007	--
P30-00	ROG	378.30	TON	-- --		Undefined	--	11.49
P30-00	TOLUENE	378.30	TON	-- --		Undefined	--	1.181
P30-00	XYLENES ISO	378.30	TON	-- --		Undefined	--	0.1535

2023 EMISSIONS CALCULATIONS BY PROCESS AND POLLUTANT

Device-Process	Pollutant	Throughput	Emission Factor	Origin	Control Efficiency %	Calculated Emissions (Tons)	Reported Emissions (Tons)
P30A-01	PM10	512,905.00 THERMS	.52 LB / MMCF	EPA	0	0.01333359	--
P30A-01	PM2PT5	512,905.00 THERMS	.43 LB / MMCF	EPA	0	0.011025855	--
P30A-01	SO2	512,905.00 THERMS	.6 LB / MMCF	EPA	0	0.01538491	--
P30A-01	PM	512,905.00 THERMS	3 LB / MMCF	EPA	0	0.076924555	--
P40-00	ROG	107.80 TON	2000 LB / TON	DNR	0	107.8	--
P41-01	CO	108,411.00 THERMS	84 LB / MMCF	EPA	0	0.45525995	--
P41-01	NOX	108,411.00 THERMS	100 LB / MMCF	EPA	0	0.54197613	--
P41-01	PM10	108,411.00 THERMS	.52 LB / MMCF	EPA	0	0.002818275	--
P41-01	PM2PT5	108,411.00 THERMS	.43 LB / MMCF	EPA	0	0.002330495	--
P41-01	SO2	108,411.00 THERMS	.6 LB / MMCF	EPA	0	0.003251855	--
P41-01	PM	108,411.00 THERMS	3 LB / MMCF	EPA	0	0.016259285	--
P41A-01	ROG	5,207.00 LB	2000 LB / TON	EPA	0	2.6035	--

EI Year Emissions = Reported Emissions for the previous calendar year's EI, if emissions were reported

EI Year Emissions = Calculated Emissions for the previous calendar year's EI, if emissions were not reported

Calculated Emissions = Throughput x Emission Factor x (1-Control Efficiency)

2022 EMISSIONS CALCULATIONS BY PROCESS AND POLLUTANT FOR COMPARISON

Device-Process	Pollutant	Throughput	Emission Factor	Origin	Control Efficiency %	Calculated Emissions (Tons)	Reported Emissions (Tons)
B26-01	CO	24,803.00 TON	.5 LB / TON	EPA	0	6.20075	--
B26-01	LEAD	24,803.00 TON	.012168 LB / TON	EPA	0	0.15090145	--
B26-01	LEAD CMP	24,803.00 TON	.00323 LB / TON	DNR	0	0.040056845	--
B26-01	NOX	24,803.00 TON	33.8 LB / TON	DNR	0	419.1707	--
B26-01	PM10	24,803.00 TON	.486 LB / TON	DNR	0	6.027129	--
B26-01	SO2	24,803.00 TON	38 LB / TON	DNR	0	523.09527	--
B26-01	AMMONIA	24,803.00 TON	.565 LB / E3 TON	EPA	0	0.00700685	--
B26-01	ARSENIC	24,803.00 TON	.000459 LB / TON	DNR	0	0.00569229	--
B26-01	BERYLLIUM	24,803.00 TON	.000094 LB / TON	DNR	0	0.00116574	--
B26-01	CADMIUM	24,803.00 TON	.0000373 LB / TON	DNR	0	0.000462575	--
B26-01	CHROMIUM MET	24,803.00 TON	.001 LB / TON	DNR	0	0.0124015	--
B26-01	CO2	24,803.00 TON	4752 LB / TON	DNR	0	58931.928	--
B26-01	COPPER	24,803.00 TON	.000318 LB / TON	EPA	0	0.003943675	--
B26-01	H2SO4	24,803.00 TON	.7052 LB / TON	EPA	0	8.7455378	--
B26-01	HF	24,803.00 TON	.15 LB / TON	EPA	0	1.860225	--
B26-01	HYDROGENCHLO	24,803.00 TON	.282 LB / TON	DNR	0	3.497223	--
B26-01	MANGANESE	24,803.00 TON	.00027 LB / TON	DNR	0	0.003348405	--
B26-01	MERCURY ALL	24,803.00 TON	.0000131 LB / TON	DNR	0	0.00016246	--
B26-01	METHANE	24,803.00 TON	.01 LB / TON	EPA	0	0.124015	--
B26-01	NICKEL CMP	24,803.00 TON	.00205 LB / TON	DNR	0	0.025423075	--
B26-01	NITROUSOXIDE	24,803.00 TON	.09 LB / TON	EPA	0	1.116135	--
B26-01	PM	24,803.00 TON	.801 LB / TON	DNR	0	74.10466719	--
B26-01	ROG	24,803.00 TON	.11 LB / TON	DNR	0	1.364165	--
B26-01	SELENIUM	24,803.00 TON	.00226 LB / TON	STK	0	0.02802739	--
B28-01	CO	12,489,776.00 THERMS	84 LB / MMCF	EPA	0	52.44942655	--
B28-01	LEAD	12,489,776.00 THERMS	.0005 LB / MMCF	EPA	0	0.0003122	--

2023 Air Emissions Inventory Summary Report
Department of Natural Resources
Air Management Program

2022 EMISSIONS CALCULATIONS BY PROCESS AND POLLUTANT FOR COMPARISON

Device-Process	Pollutant	Throughput	Emission Factor	Origin	Control Efficiency %	Calculated Emissions (Tons)	Reported Emissions (Tons)
B28-01	LEAD CMP	12,489,776.00 THERMS	.0005 LB / MMCF	DNR	0	0.0003122	--
B28-01	NOX	12,489,776.00 THERMS	35 LB / MMCF	EPA	0	21.85392773	--
B28-01	PM10	12,489,776.00 THERMS	.52 LB / MMCF	EPA	0	0.324686925	--
B28-01	SO2	12,489,776.00 THERMS	.6 LB / MMCF	EPA	0	0.37463876	--
B28-01	AMMONIA	12,489,776.00 THERMS	3.2 LB / MMCF	EPA	0	1.99807339	--
B28-01	ARSENIC	12,489,776.00 THERMS	-- --		Undefined	--	0.00012488
B28-01	BARIUM	12,489,776.00 THERMS	.0044 LB / MMCF	EPA	0	0.00274735	--
B28-01	BENZENE	12,489,776.00 THERMS	.0021 LB / MMCF	EPA	0	0.001311235	--
B28-01	BENZO(JK)FLE	12,489,776.00 THERMS	.000003 LB / MMCF	EPA	0	0.000001875	--
B28-01	CADMIUM	12,489,776.00 THERMS	-- --		Undefined	--	0.00068684
B28-01	CHROMIUM MET	12,489,776.00 THERMS	.0014 LB / MMCF	EPA	0	0.000874155	--
B28-01	CO2	12,489,776.00 THERMS	120000 LB / MMCF	EPA	0	74927.75221177	--
B28-01	COBALT	12,489,776.00 THERMS	.000084 LB / MMCF	EPA	0	0.00005245	--
B28-01	COPPER	12,489,776.00 THERMS	-- --		Undefined	--	0.00053074
B28-01	FORMALDEHYDE	12,489,776.00 THERMS	-- --		Undefined	--	0.046829845
B28-01	HEXANE	12,489,776.00 THERMS	1.8 LB / MMCF	EPA	0	1.123916285	--
B28-01	MANGANESE	12,489,776.00 THERMS	-- --		Undefined	--	0.00023727
B28-01	MERCURY ALL	12,489,776.00 THERMS	.00026 LB / MMCF	EPA	0	0.000162345	--
B28-01	MERCURYALKYL	12,489,776.00 THERMS	.00026 LB / MMCF	DNR	0	0.000162345	--
B28-01	MERCURYARYL	12,489,776.00 THERMS	.00026 LB / MMCF	DNR	0	0.000162345	--
B28-01	METHANE	12,489,776.00 THERMS	2.3 LB / MMCF	EPA	0	1.43611525	--
B28-01	MOLYBDENUM	12,489,776.00 THERMS	.0011 LB / MMCF	EPA	0	0.00068684	--
B28-01	NAPHTHALENE	12,489,776.00 THERMS	.00061 LB / MMCF	EPA	0	0.000380885	--
B28-01	NICKEL CMP	12,489,776.00 THERMS	-- --		Undefined	--	0.001311235
B28-01	NITROUSOXIDE	12,489,776.00 THERMS	2.2 LB / MMCF	EPA	0	1.373675455	--
B28-01	PENTANE	12,489,776.00 THERMS	2.6 LB / MMCF	EPA	0	1.62343463	--
B28-01	PM	12,489,776.00 THERMS	7.6 LB / MMCF	EPA	0	4.745424305	--
B28-01	POM	12,489,776.00 THERMS	.00068145 LB / MMCF	EPA	0	0.000425495	--
B28-01	ROG	12,489,776.00 THERMS	5.5 LB / MMCF	EPA	0	3.434188645	--
B28-01	TOC	12,489,776.00 THERMS	11 LB / MMCF	EPA	0	6.868377285	--

2022 EMISSIONS CALCULATIONS BY PROCESS AND POLLUTANT FOR COMPARISON

Device-Process	Pollutant	Throughput	Emission Factor	Origin	Control Efficiency %	Calculated Emissions (Tons)	Reported Emissions (Tons)
B28-01	TOLUENE	12,489,776.00 THERMS	-- --		Undefined	--	0.002122955
B30-01	CO	3,486,961.00 THERMS	84 LB / MMCF	EPA	0	14.643105275	--
B30-01	LEAD	3,486,961.00 THERMS	.0005 LB / MMCF	EPA	0	0.00008716	--
B30-01	NOX	3,486,961.00 THERMS	100 LB / MMCF	EPA	0	17.432268185	--
B30-01	PM10	3,486,961.00 THERMS	.52 LB / MMCF	EPA	0	0.090647795	--
B30-01	SO2	3,486,961.00 THERMS	.6 LB / MMCF	EPA	0	0.10459361	--
B30-01	AMMONIA	3,486,961.00 THERMS	3.2 LB / MMCF	EPA	0	0.55783258	--
B30-01	ARSENIC	3,486,961.00 THERMS	.0002 LB / MMCF	EPA	0	0.000034865	--
B30-01	BARIUM	3,486,961.00 THERMS	.0044 LB / MMCF	EPA	0	0.00076702	--
B30-01	BENZENE	3,486,961.00 THERMS	.0021 LB / MMCF	EPA	0	0.00036608	--
B30-01	BENZO(JK)FLE	3,486,961.00 THERMS	.000003 LB / MMCF	EPA	0	0.000000525	--
B30-01	CADMIUM	3,486,961.00 THERMS	.0011 LB / MMCF	EPA	0	0.000191755	--
B30-01	CHROMIUM MET	3,486,961.00 THERMS	.0014 LB / MMCF	EPA	0	0.00024405	--
B30-01	CO2	3,486,961.00 THERMS	120000 LB / MMCF	EPA	0	20918.721823365	--
B30-01	COBALT	3,486,961.00 THERMS	.000084 LB / MMCF	EPA	0	0.000014645	--
B30-01	COPPER	3,486,961.00 THERMS	.00085 LB / MMCF	EPA	0	0.000148175	--
B30-01	FORMALDEHYDE	3,486,961.00 THERMS	.075 LB / MMCF	EPA	0	0.0130742	--
B30-01	HEXANE	3,486,961.00 THERMS	1.8 LB / MMCF	EPA	0	0.313780825	--
B30-01	MANGANESE	3,486,961.00 THERMS	.00038 LB / MMCF	EPA	0	0.000066245	--
B30-01	MERCURY ALL	3,486,961.00 THERMS	.00026 LB / MMCF	EPA	0	0.000045325	--
B30-01	METHANE	3,486,961.00 THERMS	2.3 LB / MMCF	EPA	0	0.40094217	--
B30-01	MOLYBDENUM	3,486,961.00 THERMS	.0011 LB / MMCF	EPA	0	0.000191755	--
B30-01	NAPHTHALENE	3,486,961.00 THERMS	.00061 LB / MMCF	EPA	0	0.000106335	--
B30-01	NICKEL CMP	3,486,961.00 THERMS	.0021 LB / MMCF	EPA	0	0.00036608	--
B30-01	NITROUSOXIDE	3,486,961.00 THERMS	2.2 LB / MMCF	EPA	0	0.3835099	--
B30-01	PENTANE	3,486,961.00 THERMS	2.6 LB / MMCF	EPA	0	0.453238975	--
B30-01	PM	3,486,961.00 THERMS	7.6 LB / MMCF	EPA	0	1.32485238	--
B30-01	ROG	3,486,961.00 THERMS	5.5 LB / MMCF	EPA	0	0.95877475	--
B30-01	TOC	3,486,961.00 THERMS	11 LB / MMCF	EPA	0	1.9175495	--
B30-01	TOLUENE	3,486,961.00 THERMS	.0034 LB / MMCF	EPA	0	0.000592695	--

2022 EMISSIONS CALCULATIONS BY PROCESS AND POLLUTANT FOR COMPARISON

Device-Process	Pollutant	Throughput		Emission Factor	Origin	Control Efficiency %	Calculated Emissions (Tons)	Reported Emissions (Tons)
B40-01	CO	400,880.00	THERMS	84 LB / MMCF	EPA	0	1.683451015	--
B40-01	LEAD	400,880.00	THERMS	.0005 LB / MMCF	EPA	0	0.00001002	--
B40-01	NOX	400,880.00	THERMS	36 LB / MMCF	EPA	0	0.721479005	--
B40-01	PM10	400,880.00	THERMS	.52 LB / MMCF	EPA	0	0.010421365	--
B40-01	SO2	400,880.00	THERMS	.6 LB / MMCF	EPA	0	0.01202465	--
B40-01	AMMONIA	400,880.00	THERMS	3.2 LB / MMCF	EPA	0	0.064131465	--
B40-01	ARSENIC	400,880.00	THERMS	.0002 LB / MMCF	EPA	0	0.00000401	--
B40-01	BARIUM	400,880.00	THERMS	.0044 LB / MMCF	EPA	0	0.00008818	--
B40-01	BENZENE	400,880.00	THERMS	.0021 LB / MMCF	EPA	0	0.000042085	--
B40-01	BENZO(JK)FLE	400,880.00	THERMS	.000003 LB / MMCF	EPA	0	0.00000006	--
B40-01	CADMIUM	400,880.00	THERMS	.0011 LB / MMCF	EPA	0	0.000022045	--
B40-01	CHROMIUM MET	400,880.00	THERMS	.0014 LB / MMCF	EPA	0	0.00002806	--
B40-01	CO2	400,880.00	THERMS	120000 LB / MMCF	EPA	0	2404.9300249	--
B40-01	COBALT	400,880.00	THERMS	.000084 LB / MMCF	EPA	0	0.000001685	--
B40-01	COPPER	400,880.00	THERMS	.00085 LB / MMCF	EPA	0	0.000017035	--
B40-01	FORMALDEHYDE	400,880.00	THERMS	.075 LB / MMCF	EPA	0	0.00150308	--
B40-01	HEXANE	400,880.00	THERMS	1.8 LB / MMCF	EPA	0	0.03607395	--
B40-01	MANGANESE	400,880.00	THERMS	.00038 LB / MMCF	EPA	0	0.000007615	--
B40-01	MERCURY ALL	400,880.00	THERMS	.00026 LB / MMCF	EPA	0	0.00000521	--
B40-01	METHANE	400,880.00	THERMS	2.3 LB / MMCF	EPA	0	0.04609449	--
B40-01	MOLYBDENUM	400,880.00	THERMS	.0011 LB / MMCF	EPA	0	0.000022045	--
B40-01	NAPHTHALENE	400,880.00	THERMS	.00061 LB / MMCF	EPA	0	0.000012225	--
B40-01	NICKEL CMP	400,880.00	THERMS	.0021 LB / MMCF	EPA	0	0.000042085	--
B40-01	NITROUSOXIDE	400,880.00	THERMS	2.2 LB / MMCF	EPA	0	0.044090385	--
B40-01	PENTANE	400,880.00	THERMS	2.6 LB / MMCF	EPA	0	0.052106815	--
B40-01	PM	400,880.00	THERMS	7.6 LB / MMCF	EPA	0	0.152312235	--
B40-01	ROG	400,880.00	THERMS	5.5 LB / MMCF	EPA	0	0.11022596	--
B40-01	TOC	400,880.00	THERMS	11 LB / MMCF	EPA	0	0.22045192	--
B40-01	TOLUENE	400,880.00	THERMS	.0034 LB / MMCF	EPA	0	0.00006814	--
F50-01	PM	5,851.00	LB	1 LB / LB	DNR	0	2.9255	--

2022 EMISSIONS CALCULATIONS BY PROCESS AND POLLUTANT FOR COMPARISON

Device-Process	Pollutant	Throughput	Emission Factor	Origin	Control Efficiency %	Calculated Emissions (Tons)	Reported Emissions (Tons)
F96-01	AMMONIA	6.16 MGAL	19 LB / MGAL	DNR	0	0.05852	--
F96-01	ROG	6.16 MGAL	8.9 LB / MGAL	DNR	0	0.027412	--
F98-01	CO	785,226.00 THERMS	84 LB / MMCF	EPA	0	3.29746934	--
F98-01	LEAD	785,226.00 THERMS	.0005 LB / MMCF	EPA	0	0.00001963	--
F98-01	NOX	785,226.00 THERMS	100 LB / MMCF	EPA	0	3.925558735	--
F98-01	PM10	785,226.00 THERMS	3 LB / MMCF	DNR	0	0.11776676	--
F98-01	SO2	785,226.00 THERMS	.6 LB / MMCF	EPA	0	0.02355335	--
F98-01	AMMONIA	785,226.00 THERMS	.49 LB / MMCF	EPA	0	0.01923524	--
F98-01	ARSENIC	785,226.00 THERMS	-- --		Undefined	--	0.00000785
F98-01	BARIUM	785,226.00 THERMS	.0044 LB / MMCF	EPA	0	0.000172725	--
F98-01	BENZENE	785,226.00 THERMS	.0021 LB / MMCF	EPA	0	0.000082435	--
F98-01	BENZO(JK)FLE	785,226.00 THERMS	.000003 LB / MMCF	EPA	0	0.00000012	--
F98-01	CADMIUM	785,226.00 THERMS	-- --		Undefined	--	0.00004318
F98-01	CHROMIUM MET	785,226.00 THERMS	-- --		Undefined	--	0.00005496
F98-01	CO2	785,226.00 THERMS	120000 LB / MMCF	EPA	0	4710.67048426	--
F98-01	COBALT	785,226.00 THERMS	.000084 LB / MMCF	EPA	0	0.000003295	--
F98-01	COPPER	785,226.00 THERMS	-- --		Undefined	--	0.000033365
F98-01	FORMALDEHYDE	785,226.00 THERMS	-- --		Undefined	--	0.00294417
F98-01	HEXANE	785,226.00 THERMS	1.8 LB / MMCF	EPA	0	0.070660055	--
F98-01	MANGANESE	785,226.00 THERMS	-- --		Undefined	--	0.000014915
F98-01	MERCURY ALL	785,226.00 THERMS	.00026 LB / MMCF	EPA	0	0.000010205	--
F98-01	METHANE	785,226.00 THERMS	2.3 LB / MMCF	EPA	0	0.09028785	--
F98-01	MOLYBDENUM	785,226.00 THERMS	.0011 LB / MMCF	EPA	0	0.00004318	--
F98-01	NAPHTHALENE	785,226.00 THERMS	.00061 LB / MMCF	EPA	0	0.000023945	--
F98-01	NICKEL CMP	785,226.00 THERMS	-- --		Undefined	--	0.000082435
F98-01	NITROUSOXIDE	785,226.00 THERMS	2.2 LB / MMCF	EPA	0	0.08636229	--
F98-01	PENTANE	785,226.00 THERMS	2.6 LB / MMCF	EPA	0	0.102064525	--
F98-01	PM	785,226.00 THERMS	7.6 LB / MMCF	EPA	0	0.298342465	--
F98-01	ROG	785,226.00 THERMS	5.5 LB / MMCF	EPA	0	0.21590573	--
F98-01	TOC	785,226.00 THERMS	11 LB / MMCF	EPA	0	0.43181146	--

2022 EMISSIONS CALCULATIONS BY PROCESS AND POLLUTANT FOR COMPARISON

Device-Process	Pollutant	Throughput	Emission Factor	Origin	Control Efficiency %	Calculated Emissions (Tons)	Reported Emissions (Tons)
F98-01	TOLUENE	785,226.00 THERMS	.0034 LB / MMCF	EPA	0	0.00013347	--
P30-00	ROG	277.50 TON	-- --		Undefined	--	9.7955
P30-00	TOLUENE	277.50 TON	-- --		Undefined	--	1.006
P30-00	XYLENES ISO	277.50 TON	-- --		Undefined	--	0.131
P30A-01	PM10	390,670.00 THERMS	.52 LB / MMCF	EPA	0	0.01015594	--
P30A-01	SO2	390,670.00 THERMS	.6 LB / MMCF	EPA	0	0.011718395	--
P30A-01	PM	390,670.00 THERMS	3 LB / MMCF	EPA	0	0.058591975	--
P40-00	ROG	121.27 TON	2000 LB / TON	DNR	0	121.27	--
P41-01	CO	156,760.00 THERMS	84 LB / MMCF	EPA	0	0.6582962	--
P41-01	NOX	156,760.00 THERMS	100 LB / MMCF	EPA	0	0.783685955	--
P41-01	PM10	156,760.00 THERMS	.52 LB / MMCF	EPA	0	0.004075165	--
P41-01	SO2	156,760.00 THERMS	.6 LB / MMCF	EPA	0	0.004702115	--
P41-01	PM	156,760.00 THERMS	3 LB / MMCF	EPA	0	0.02351058	--
P41A-01	ROG	7,238.00 LB	2000 LB / TON	EPA	0	3.619	--

OZONE EMISSIONS BY PROCESS						
2023			2022		2021	
Device-Process	LB NOx/ Ozone Season Day	LB ROG/ Ozone Season Day	LB NOx/ Ozone Season Day	LB ROG/ Ozone Season Day	LB NOx/ Ozone Season Day	LB ROG/ Ozone Season Day
B26-01	N/A	N/A	0.00	0.00	0.00	0.00
B28-01	120.27	19.46	120.08	18.87	92.69	15.69
B30-01	124.39	6.84	126.43	6.95	132.82	7.30
B40-01	4.51	0.69	0.00	0.00	N/A	N/A
F96-01	N/A	0.16	N/A	0.15	N/A	57.29
F98-01	22.49	1.24	21.57	1.19	28.10	1.55
F99-00	N/A	11.35	N/A	N/A	N/A	N/A
P30-00	N/A	70.71	N/A	58.13	N/A	47.44
P40-00	N/A	592.31	N/A	666.32	N/A	793.41
P41-01	2.98	N/A	3.79	N/A	4.52	N/A
P41A-01	N/A	12.59	N/A	17.50	N/A	19.75

The equation below calculates the emissions from typical ozone season days for each emission unit and process line.

$$EM = (Annual \times Third \ Quarter \ Percentage) / (DPW \times Nweeks)$$

Where:

- EM = Typical ozone season day emissions in pounds per day
- Annual = Annual emissions of VOC or NOx in pounds
- Third Quarter Percentage = Percentage of time in operation for the third quarter of the calendar year, compared to the total time in operation for the entire calendar year
- DPW = Number of days per week of operation
- Nweeks = Number of weeks (13) from July 1 to September 30

The emissions from each unit/process line are then summed to arrive at the total pounds per ozone season day emissions for the facility.

* 0.00 LB/Ozone Season Day indicates that while NOx or ROG was emitted, the calculated LB/Ozone Season Day value was zero.

Fees are required by ss. 285.69(2), (2e) and (2m), Wis. Stats., and ch. NR 410, Wis. Adm. Code. These fees are based on actual facility emissions and/or permit and source regulatory status during the calendar year.

This is an estimate, not a bill. By May 31 environmental fee statements are e-mailed to facilities (or mailed if no email address is available). Environmental Fee payments and certifications are due annually by June 30.

Estimated Air Emissions Fees for Title V Sources will not update after changes are made to the data until the Emissions Calculator is re-run. Fees for Non-Title V Sources are not based on emissions reported.

EI Year Estimated Air Emissions Fee Total	Emissions Base Fee (if major)	Emissions per Ton Fee (if major)	MACT Fee (if major and subject to a requirement in 40 CFR 63)	NSPS Fee (if major and subject to a requirement in 40 CFR 60)	PSD/NAA NSR Fee	Private Coal EGU Fee
\$13,421.97	\$3,000.00	\$7,001.97	\$960.00	\$960.00	\$1,500.00	\$0.00