Commonwealth of Kentucky Division for Air Quality

STATEMENT OF BASIS / SUMMARY

Title V, Operating
Permit: V-25-013

Domtar Paper Company, LLC
Hawesville, KY 42348-0130
March 10, 2025
Brian Harley, Reviewer

SOURCE ID: 21-091-00005

AGENCY INTEREST: 43431

ACTIVITY: APE20190001, APE20210002,

APE20230001

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SECTION 1 – SOURCE DESCRIPTION

SIC Code and description: 2611, 2621, Pulp Mills (pulp mills producing paper except newsprint) Paper Mills (except newsprint mills)
Single Source Det. ☐ Yes ☒ No If Yes, Affiliated Source AI:
Source-wide Limit ☐ Yes ☒ No If Yes, See Section 4, Table A
28 Source Category ⊠ Yes □ No If Yes, Category: Kraft pulp mills, Fossil-fuel boilers, or combination of fossil-fuel boilers, totaling more than 250 million BTUs per hour heat input
County: Hancock
Nonattainment Area \boxtimes N/A \square PM ₁₀ \square PM _{2.5} \square CO \square NO _X \square SO ₂ \square Ozone \square Lead If yes, list Classification:
PTE* greater than 100 tpy for any criteria air pollutant ⊠ Yes □ No If yes, for what pollutant(s)? ⊠ PM ₁₀ ⊠ PM _{2.5} ⊠ CO ⊠ NO _X □ SO ₂ ⊠ VOC
PTE* greater than 250 tpy for any criteria air pollutant ⊠ Yes □ No If yes, for what pollutant(s)? ⊠ PM ₁₀ ⊠ PM _{2.5} ⊠ CO ⊠ NO _X □ SO ₂ ⊠ VOC
PTE* greater than 10 tpy for any single hazardous air pollutant (HAP) ⊠ Yes □ No If yes, list which pollutant(s): HCl, Methanol
PTE* greater than 25 tpy for combined HAP ⊠ Yes □ No
*PTE does not include self-imposed emission limitations.

Description of Facility:

The facility is an integrated pulp and paper mill utilizing the kraft process for the manufacturing of bleached pulp from wood chips. The plant consists of two areas: the Bleach Pulp Mill (BPM) and the Fine Paper Mill (FPM).

Hardwood chips and a small portion of softwood are received at the BPM via truck, barge, and rail car. The chips are screened, then sent to a continuous digester in the pulp mill which cooks the chips into pulp. The pulp is then screened and washed, then transferred to a high density storage tank. The pulp is bleached, then stored in high-density storage vessels. From this point, the pulp is either processed into sheets that are baled and dried to be sold as Market Pulp or transferred to the FPM to be used in the manufacture of paper.

The pulp is transferred to one of two paper machines at the FPM. Various chemicals and dyes are added to the paper to form different types of specialty paper. Sheet is formed on the Fourdrinier wire, and then dried by steam heated dryers to produce the final product.

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SECTION 2 – CURRENT APPLICATION AND EMISSION SUMMARY FORM

Permit Number: V-25-013

Activities	Received Date	Application Complete Date
APE20190001	June 7, 2019	June 27, 2019
APE20210002	June 22, 2021	March 13, 2023
APE20230001	March 13, 2023	May 6, 2024

Permit Action: □ Initial ⊠ Renewal □ Significant Rev ⊠ Minor Rev □ Administrative

Construction/Modification Requested? □Yes ⊠No NSR Applicable? □Yes ⊠No

Previous 502(b)(10) or Off-Permit Changes incorporated with this permit action \boxtimes Yes \square No

Description of Action:

APE20180005

502(b)(10) Change

The Division received the Domtar Paper Company, LLC. application for the addition of a mist elimination system to the control device for emission unit EU-30, BPM Smelt Tank No. 4 on August 15, 2018. The addition of the mist elimination system was added to improve the capture of liquid from this emission unit, which also improves the capture of suspended solids.

APE20190001 Minor Revision

The Division received the Domtar Paper Company, LLC. application to replace the generating bank for emission unit EU-27, BPM Recovery Boiler Furnace no. 3 on June 7, 2019. In addition, language in the permit requiring annual boiler tune-ups for emission unit EU-59, BPM Backup Boiler, was changed to every five years based on knowledge that the boiler has oxygen trim. It has been demonstrated that the increase in actual emissions associated with the replacement of the generating bank at EU-27 will not exceed any significant emission rates as defined in 401 KAR 51:001. The results are as follows:

PSD Criteria Pollutant	NO_X	CO	PM	PM ₁₀	PM _{2.5}	SO ₂	VOC	CO ₂ e
Emissions (tpy)	24	43.7	8.7	7.1	4.8		2.5	59,447
PSD SER (tpy)	40	100	25	15	10	40	40	75,000
Further PSD Review	No	No	No	No	No	No	No	No

APE20200001 502(b)(10) Change

The Division received the Domtar Paper Company, LLC. application for the temporary use of a portable rental chip rejects grinder on September 22, 2020. The temporary grinder uses a 950 hp diesel engine with a fuel capacity of 47.5 gal/hr which will be in place for no more than 8 weeks. Furthermore, 8,000 tons per year or 25 tons per hour of wood would be processed based on 8 hours per day, 5 days per week, 8 weeks of operation. The Division has determined that the temporary grinder can be covered by a 502(b)(10) Change, however it will not be added to the permit.

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APE20200002 502(b)(10) Change

The Division received the Domtar Paper Company, LLC. application for the installation of a portable residuals mixer with integral 92.6 kW, 124 hp diesel-fired engine. The EPA certified engine will not stay in any location at the facility for more than 12 consecutive months and will therefore be classified as a nonroad engine. For this reason, the engine will not be subject to 401 KAR 63, Subpart ZZZZ or 40 CFR 60, Subpart IIII and will only be subject to 401 KAR 63:020. Pursuant to an email received by the facility on April 28, 2025, the residuals mixer has been removed from the facility and will not be brought back on-site.

APE20210002 Minor Revision

The Division received the Domtar Paper Company, LLC. application for the addition of a propane-fired emergency generator engine and to revise the requirements for the BPM Bio-Fuel Boiler (EU-42) on June 22, 2021. The spark ignition emergency engine was manufactured on June 24, 2019 and is subject to 40 CFR 60, Subpart JJJJ and has associated propane tank which will be added as an insignificant activity. EU-42 has historically been permitted as requiring annual tune-ups pursuant to 40 CFR 63, Subpart DDDD. However, the boiler is equipped with an oxygen trim system that allows for an optimized air to fuel ratio. Therefore, the permittee has requested that the requirements from 40 CFR 63, Subpart DDDDD be revised to reflect 5-year tun-ups as allowed by 40 CFR 63, Subpart DDDDD. There are no change in emissions due to the revised requirements for EU-42 and the emissions from the new 11 kW emergency engine have been added to the facility's total emissions.

APE20230001 Renewal

The Division received the Domtar Paper Company, LLC. application for the renewal of their Title V permit on March 13, 2023. In the renewal application, the facility requested that the following items be addressed:

- Acceptable ranges of scrubber parameters for EU-28 Smelt Tank No. 3 have been updated based on performance testing performed on March 20, 2019.
- Acceptable ranges of scrubber parameters for EU-30 Smelt Tank No. 4 have been updated based on performance testing performed on March 12, 2019.
- Regulatory language pertaining to emission units EU-19, EU-20, and EU-21; No. 2 and 3 Bleach Plants and ClO₂ Generator; have been updated in the permit based on language from 40 CFR 63, Subpart S. Specifically, submittal of LDAR reports as required by 6. Specific Reporting Requirements c in previous permits has been removed as the required reporting under 40 CFR 63.455 is required to be reported via the EPA's WebFIRE database by using the Compliance and Emissions Data Reporting Interface (CEDRI) as specified in 40 CFR 63.455(h).
- The following insignificant activities have been removed from the permit:
 - o KMM chip preparation-ceased operation
 - o KMM HO screen conveyor fan- ceased operation

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o KMM Recycle pulp area-ceased operation

- o KMM condensate
- o KMM mineral spirits tank- ceased operation
- o KMM sulfite storage hopper- ceased operation
- o Biospan methane generator- ceased operation
- The visual observation requirement for EU-54 has been revised to allow for weekly observations after six months of no visual observations on a daily basis. This language is the same as that for EU-33 and EU-37. It has also been added that this observation would be during truck/railcar unloading as this would be when emissions would occur.

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- CAM requirements for EU-28 and EU-30 in Section D of the permit have been updated based on the performance tests performed on March 20 and 12, 2019.
- Several typographical errors have been corrected.
- 40 CFR 63, Subpart MM was revised and finalized on November 5, 2020 to include alternative scrubber fan amperage or revolutions per minute. The alternative only applies to dynamic scrubbers that operate at ambient pressure. Therefore, it applies to EU-30 which operates at ambient pressure, but does not apply to EU-28 which operates at s -7.45 inches of water.
- Revisions to the permit have been made pursuant to revisions to 40 CFR 63, Subpart DDDDD which were finalized on December 5, 2022.

Additionally, the applicability of 401 KAR 59:015 (Startup-Shutdown requirements) was added to the recovery boilers (EU-27 and EU-29) at the facility and the applicability of 401 KAR 51:160 and 401 KAR 51:220 were added to the backup boiler (EU-59).

APE20230002 Off-Permit Change

The Division received the Domtar Paper Company, LLC. application to install and operate new equipment at the facility to produce stretchable paper on August 17, 2023. To facilitate production of the stretchable paper (EAPP), the facility will modify the EU-51 K-1 (H-1) Paper Machine by modifying the mechanical layout of the Paper Machine without additional raw material, pup or paper production, chemical input, steam input, or additional combustions sources. Additional emissions will only occur from hand operated griding resulting in small amounts of particulate matter. The grinding operation (Blanket Grinding) will be an insignificant activity.

Additionally, the facility will be changing the identifying names to several pieces of equipment at the facility as follows:

- EU-51 from K-1 to H-1
- EU-52 from K-2 to H-2
- EU-53 from K-1 & 2 to H-1 & 2
- EU-54 from K-1 & 2 to H-1 & 2
- A58-09 from FPM K-2 to FPM H-2

Insignificant Activities

- K-1 Machine Stock Preparation Tank to H-1 Machine Stock Preparation Tank
- K-1 Machine Chemical Preparation to H-1 Machine Chemical Preparation
- K-2 Machine Chemical Preparation to H-2 Machine Chemical Preparation

The Manufacturer for emission unit A58-8 has been corrected to Cummins from Caterpillar.

APE20240002 Off-Permit Change

The Division received the Domtar Paper Company, LLC. application for the demolition of buildings, storage tanks, pipelines, and steel structures associated with the Corrugated Media Mill at the facility on May 10, 2024. The emissions of particulate matter from paved roadways, wind erosion of waste material storage, and waste material handling, during the 6 to 12 months of demolition, were estimated to be below 5 tons per year. However, no permit change based on regulatory requirements has been made to the permit.

	V-25-013 Emission Summar	rv
Pollutant	2023 Actual (tpy)	PTE
- 3.3.0.00		V-25-013 (tpy)
CO	715.43	1,098.18
NO _X	1,152.15	1,817.02
PT	280.10	383.45 (27,393)
PM_{10}	234.13	310.11 (26,085)
PM _{2.5}	165.20	218.26 (19,132)
SO_2	36.59	88.97 (729)
VOC	286.11	399.53 (559)
Lead	0.031	0.044
	Greenhouse Gases (GHGs)	
Carbon Dioxide	1,465,203	2,624,410
Methane (GWP: 28)	442.76	576.4
Nitrous Oxide (GWP: 265)	69.48	87.4
CO ₂ Equivalent (CO ₂ e)	1,496,013	2,663,717
	s Air Pollutants (HAPs)/Toxic Air	Pollutants (TAP)
1,2,4-Trichlorobenzene	1.763	2.233
Acetaldehyde	6.017	8.476
Acetophenone	5.035	6.457
Acrolein	1.005	1.431
Barium (Total and	0.505	0.726
Dissolved) (TAP)	0.505	0.736
Benzene	1.380	1.985
Carbon Disulfide	0.734	0.950
Chlorine	0.699	0.931
Chloroform	3.852	5.144
Cresol	2.253	4.175
Cumene	6.469	8.554
Dichloromethane	1.522	2.189
Formaldehyde	5.750	7.562
Hexachlorocyclopentadiene	1.409	2.709
Hexane; N-Hexane	1.031	1.495
Hydrochloric Acid	36.081	44.796
Methanol	192.794	259.147
Methyl Isobutyl Ketone	0.541	0.729
Naphthalene	1.147	1.581
n-Methyl-n-	48.202	54.114
Ethylnitrosamine (TAP)		
Phenol	5.760	7.603
Phosphorus (as P), Total	0.320	0.505
Styrene	0.468	0.672
Toluene	0.573	0.782
Total Reduced Sulfur (TAP)	14.051	22.925 (50.21)
Xylenes (Total)	5.185	7.224
Combined HAPs:	283.413	380.219 (425.83)

⁽⁻⁻⁾ Uncontrolled Emissions

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SECTION 3 – EMISSIONS, LIMITATIONS AND BASIS

Emission Unit EU-10 KMM Gasoline Storage Tank Emission Unit EU-47 BPM Gasoline Storage Tank

Initial Construction Date: 12/1989

Process Description:

Emission Unit EU-10 KMM Gasoline Storage Tank				
Emission Point	C-80			
Description	Gasoline storage tank			
Maximum Rated Capacity/Throughput	1000 gallons storage capacity, 10 ⁵ gallons/year			
Process Description	Gasoline storage tank for KMM			
Control Equipment	None			

Emission Unit EU-47 BPM Gasoline Storage Tank				
Emission Point	B - 1400			
Description	Gasoline storage tank			
Maximum Rated Capacity/Throughput	1000 gallons storage capacity, 10 ⁵ gallons/year			
Purpose	Gasoline storage tank for vehicles.			
Control Equipment	None			

Applicable Regulation:

401 KAR 59:050, New storage vessels for petroleum liquids.

Comments:

The Division has determined that the following regulations do not apply to EU-10 and EU-47:

401 KAR 60:005, Section 2(2)(p), 40 C.F.R. 60.110 through 60.113 (**Subpart K**), Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978.

- **401 KAR 60:005, Section 2(2)(q)**, 40 C.F.R. 60.110a through 60.115a (**Subpart Ka**), Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984.
- **401 KAR 60:005 Section 2(2)(r)**, 40 C.F.R. 60.110b through 60.117b (**Subpart Kb**), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, and On or Before October 4, 2023 is not applicable since the capacity is not equal to or greater than 75 m3 (19,812 gallons).
- **40 CFR 60, Subpart Kc**, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After October 4, 2023 is not applicable since the units were constructed before October 4, 2023.
- **401 KAR 60:005, Section 2(2)(eee)**, 40 C.F.R. 60.500 through 60.506 (**Subpart XX**), *Standards of Performance for Bulk Gasoline Terminals* is not applicable as the gasoline dispensing facility is not located at a bulk gasoline terminal.

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Emission Unit EU-10 KMM Gasoline Storage Tank Emission Unit EU-47 BPM Gasoline Storage Tank

401 KAR 61:050, Existing Storage Vessels for Petroleum Liquids is not applicable since this affected facility was commenced after April 9, 1972.

401 KAR 63:002, Section 2(4)(k), 40 C.F.R. 63.420 through 63.429, Table 1 (**Subpart R**), *National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)* is not applicable as the tanks do not satisfy the applicability requirement specified in 40 CFR 63.420.

401 KAR 63:002, Section 2(4)(cccc), 40 C.F.R. 63.11080 through 63.11100, Tables 1 through 3 (**Subpart BBBBBB**), *National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities* is not applicable because the source is a major source of hazardous air pollutants.

401 KAR 63:002, Section 2(4)(ddddd), 40 C.F.R. 63.11110 through 63.11132, Tables 1 through 3 (**Subpart CCCCC**), *National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities* is not applicable because the source is a major source of hazardous air pollutants.

1000 gallon capacity. 100,000 gallon throughput per year. No controls. The permittee shall maintain tank diagrams/blueprints to verify the existence of the submerged fill pipe.

Emission Unit EU-11 Unpaved Mill Roads Emission Unit EU-12 Paved Mill Roads

Initial Construction Date: EU-11: 1/2001; EU-12: 4/1967

Process Description:

Emission Unit EU-11 Unpaved Mill Roads				
Emission Point	C-90			
Description	Unpaved plant roads			
Maximum Rated Capacity	66,000 wood chip trucks and 14,000 wood fuel trucks on 0.4 miles round trip on unpaved roads			
Process Description	Unpaved roads for movement of machinery for wood chip and wood fuel handling.			

Emission Unit EU-12 Paved Mill Roads				
Emission Point	C-100			
Description	Paved plant roads			
Maximum Rated Capacity	66,000 wood chip trucks and 14,000 wood fuel trucks on 1.9 miles round trip on paved roads			
Process Description	Paved roads for movement of machinery for wood chip and wood fuel handling.			

Applicable Regulation:

401 KAR 63:010, Fugitive emissions.

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Emission Unit EU-11 Unpaved Mill Roads Emission Unit EU-12 Paved Mill Roads

Comments:

66,000 wood chip trucks and 14,000 wood fuel trucks on 0.4 mile round trip on unpaved roads. Total distance of approximately 64,000 miles per year. Emissions calculated by AP-42 Chapter 13.2.

66,000 wood chip trucks and 14,000 wood fuel trucks on 1.9 mile round trip on paved roads. Total distance of approximately 304,000 miles per year.

Emission Unit EU-14 BPM Continuous Digester System						
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method		
TRS	≤ 5 ppmv on a dry basis, corrected to 10 percent oxygen	40 CFR 60.283(a)(1)	N/A	Testing, Closed Vent System Leak Detection, Proper Operation of Control Device		
	OR if the gases are combusted in a lime kiln					
TRS	≤ 8 ppmv on a dry basis, corrected to 10 percent oxygen	40 CFR 60.283 (a)(1)(i) and 40 CFR 60.283(a)(5)	N/A	Testing, Closed Vent System Leak Detection, Proper Operation of Control Device		
OR if the uncontrolled exhaust gases are from a new, modified, or reconstructed digester system						
TRS	< 0.005 g/kg ADP (0.01 lb/ton	40 CFR 60.283 (a)(1)(vi)	N/A	Testing, Closed Vent System Leak Detection, Proper Operation of Control Device		

Initial Construction Date: 3/1997

Process Description:

Emission Unit EU-14 BPM Continuous Digester System				
Emission Point	B-1			
Description	Continuous digester system			
Maximum Rated Capacity	512,487 tons per year (tpy) oven dried pulp (ODP).			
Process Description	Produces kraft pulp from wood chips.			
Control Equipment	Low volume high concentration gases (LVHC) are vented to the non-condensable gases (NCG)/stripper off-gases (SOG) incinerator or the lime kiln no. 3; high volume low concentration gases (HVLC) are vented to the NCG/SOG incinerator or bio-fuel boiler.			

Applicable Regulation:

401 KAR 60:005, Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (**Subpart BB**), Standards of Performance for Kraft Pulp Mills.

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Emission Unit EU-14 BPM Continuous Digester System

401 KAR 63:002, Section 2(4)(I), 40 C.F.R. 63.440 through 63.459, Table 1 (**Subpart S**), *National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry*.

401 KAR 63:002, Section 2(4)(hh), 40 C.F.R. 63.960 through 63.967 (**Subpart RR**), *National Emission Standards for Individual Drain Systems*.

Comments:

No emissions in KYEIS. Low volume high concentration gases (LVHC) are vented to the non-condensable gases (NCG)/stripper off-gases (SOG) incinerator [EU-40] or the lime kiln no. 3 [EU-36] as control equipment; high volume low concentration gases (HVLC) are vented to the NCG/SOG incinerator [EU-40] or bio-fuel boiler [EU-42] as control equipment. Maximum Rated Capacity: 512,487 tpy ODP.

	Emission Unit EU-19 BPM No. 2 Bleach Plant Emission Unit EU-20 BPM No. 3 Bleach Plant Emission Unit EU-21 BPM ClO ₂ Generator				
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission	Emission Factor	Compliance	
		Limit or Standard	Used and Basis	Method	
Total chlorin- ated HAP	Reduce by 99 % OR Achieve outlet concentration of 10 ppmv or less OR Achieve outlet mass emission rate of 0.001 kg/Mg ODP	40 CFR 63.445(c)	N/A	Operation of scrubber and CMS, LDAR, and proper operation of control devices.	

Initial Construction Date: EU-19: 6/1998; EU-20: 2/1997; EU-21: 2/1998

Emission Unit EU-19 BPM No. 2 Bleach Plant		
Emission Point	B-100	
Description	No.2 chlorine dioxide (ClO ₂) bleach plant	
Maximum Rated Capacity	182,500 tpy ADP	
Process Description	Bleaches wood pulp	
Control Equipment	Bleach plant scrubber	

Emission Unit EU-20 BPM No. 3 Bleach Plant		
Emission Point	B-100	
Description	No.3 ClO ₂ bleach plant	
Maximum Rated Capacity	438,000 tpy ADP	
Process Description	Bleaches wood pulp	
Control Equipment	Bleach plant scrubber	

Emission Unit EU-19	BPM No. 2 Bleach Plant
Emission Unit EU-20	BPM No. 3 Bleach Plant
Emission Unit EU-21	BPM ClO ₂ Generator

Emission Unit EU-21 BPM ClO ₂ Generator		
Emission Point	B-100	
Description	ClO ₂ generator	
Maximum Rated Capacity	620,500 tpy ADP	
Process Description	Produces the ClO ₂ solution used in the bleaching of wood pulp	
Control Equipment	Bleach plant scrubber	

Applicable Regulation:

401 KAR 63:002, Section 2(4)(l), 40 C.F.R. 63.440 through 63.459, Table 1 (**Subpart S**), *National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry*.

State-Origin Requirement:

401 KAR 63:021, Existing sources emitting toxic air pollutants.

Comments:

Testing of emission units 19 and 20 BPM Bleach plants is required for chlorinated HAP emissions (not including chloroform). The scrubber required to control HAPs shall be operated according to manufacturer's specifications and the following monitored continuously: the scrubber liquid flow rate, scrubbing liquid pH, and the scrubber inlet pressure (or vacuum). The facility will also implement a LDAR program for the closed vent system. The facility has a source-wide ClO₂ limit pursuant to 401 KAR 63:021. Maximum capacity: EU-19: 182,500 tpy ADP, EU-20: 438,000 tpy ADP, EU-21: 620,500 tpy ADP.

Emission Unit EU-22 BPM Multiple Effect Evaporator System			em	
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method
	≤ 5 ppmv on a dry basis, corrected to 10 percent oxygen	40 CFR 60.283(a)(1)	N/A	
	OR the gases are cor	OR the gases are combusted in a lime kiln and do not contain		
TRS	≤ 8 ppmv on a dry basis, corrected to 10 percent oxygen	40 CFR 60.283 (a)(1)(i) and 40 CFR 60.283(a)(5)	N/A	Testing, Closed Vent System Leak Detection, Proper
	I III the greet are complicied in a recovery filthace and do not contain		Operation of Control Device	
	≤ 5 ppm by volume on a dry basis, corrected to 8 percent oxygen	40 CFR 60.283 (a)(1)(ii), 40 CFR 60.283(a)(2), and 40 CFR 60.283(a)(3)	N/A	
		OR		

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	Emission Unit EU-22 BPM Multiple Effect Evaporator System			
TRS	≤ 25 ppmvd on a dry basis, corrected to 8 percent oxygen	40 CFR 60.283 (a)(1)(ii), 40 CFR 60.283(a)(2), and 40 CFR 60.283(a)(3)	N/A	Testing, Closed Vent System Leak Detection, Proper Operation of Control Device

Initial Construction Date: 10/1997

Process Description:

Emission Unit EU-22 BPM Multiple Effect Evaporator System		
Emission Point	B-700	
Description	Multiple effect evaporators Condensate stripper	
Maximum Rated Capacity	967,250 tpy of black liquor solids (BLS)	
Process Description	Evaporation of water from the spent pulping chemical (black liquor) to facilitate its combustion in the recovery boilers/furnace(s).	
Control Equipment	LVHC and SOG vented to the NCG/SOG incinerator [EU-40], lime kiln No. 3 [EU-36], bio-fuel boiler [EU-42], or recovery boiler [EU-27 and/or EU-29]	

Applicable Regulation:

401 KAR 60:005, Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (**Subpart BB**), Standards of Performance for Kraft Pulp Mills.

401 KAR 63:002, Section 2(4)(I), 40 C.F.R. 63.440 through 63.459, Table 1 (**Subpart S**), *National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry*.

401 KAR 63:002, Section 2(4)(hh), 40 C.F.R. 63.960 through 63.967 (**Subpart RR**), *National Emission Standards for Individual Drain Systems*.

Comments:

No emissions in KYEIS. LVHC and SOG vented to the NCG/SOG incinerator[EU-40], lime kiln No. 3 [EU-36], bio-fuel boiler [EU-42], or recovery boiler [EU-27 /or EU-29] as control devices. Emission point B-700 has maximum rated capacity of 967,250 tpy of black liquor solids (BLS).

Emission Unit EU-23 BPM Recovery Area Strong & Heavy Black Liquor Tanks

Initial Construction Date: 10/1997

Process Description:

Emission Unit EU-23 BPM Recovery Area Strong & Heavy Black Liquor Tanks		
Emission Point	B-301, 303-309, 700, 900	
Description	Three recovery area strong and heavy black liquor tanks Liquor Tanks (Vented to the NCG/SOG incinerator [EU-40])	
Maximum Rated Capacity	967,250 tpy of BLS Each tank < 40 cubic meter (m ³)	
Process Description	Storage of spent pulping chemical (black liquor) while being processed	
Control device	Evaporators [EU-22] for process control purposes, which in turn is vented to the NCG/SOG incinerator [EU-40]	

Applicable Regulation:

None.

Comments:

This emission unit is vented to the NCG/SOG incinerator [EU-40]. Emission Points B-301, 303-309, 700, 900 have maximum capacity of 967,250 tpy of BLS.

Emission Unit EU-09	Weak Liquor Tank
Emission Unit EU-24	Weak Liquor Tank

Initial Construction Date: 3/1997

Process Description:

Toccss Description.	
Emission Unit EU-24	BPM Weak Liquor Tank
Emission Unit EU-09	BPM Weak Liquor Tank
Emission Point	B-304 (or C-70) 700, 900
Maximum Rated Capacity	967,250 tpy of BLS each
Process Description	Storage of spent pulping liquor (black liquor) prior to it being processed for combustion
Control Equipment	NCG/SOG incinerator or bio-fuel boiler
Comments	Emission unit EU-09 will serve as a backup to emission unit EU-24 and will meet the same requirements.

Recovery and pulp mill weak black liquor tanks. Both tanks will not be operated simultaneously. One tank will be used as a backup tank.

Applicable Regulation:

401 KAR 50:012 General Application.

401 KAR 63:002, Section 2(4)(I), 40 C.F.R. 63.440 through 63.459, Table 1 (**Subpart S**), *National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry*.

Emission Unit EU-09 Weak Liquor Tank Emission Unit EU-24 Weak Liquor Tank

Comments:

The Division has determined that the following regulations do not apply to EU-09 and EU-24: 401 KAR 60:005, Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (**Subpart Kb**), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. Pursuant to final changes published in the Federal Register on October 15, 2003 for 40 CFR 60, Subpart Kb, these weak liquor tanks are exempt because they are process tanks (i.e., each process tank feeds recovery furnace(s)).

401 KAR 63:020, Potentially hazardous matter or toxic substances is not applicable since the units are applicable to 40 CFR 63, Subpart S.

Emission Unit EU-27 BPM Recovery Boiler/Furnace No. 3				
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method
PM	\leq 0.025 gr/dscf (corrected to 8 % oxygen) and \leq 106.5 tpy)	40 KAR 51:017 and PSD permit C-93-044	51.8 lb/ton BLS 7.6 lb/mmscf NG 2.074 lb/1000	
1 1V1	≤ 0.10 g/dscm (0.044 gr/dscf) corrected to 8 % oxygen	40 CFR 63.862(a)(1)(i)(A)	gallons #5 fuel oil 2 lb/1000 gallons diesel	
PM_{10}	≤ 18 lb/hour and 79.7 tpy.	40 KAR 51:017 and PSD permit C-93-044	46.1 lb/ton BLS 7.6 lb/mmscf NG 1.037 lb/1000 gallons #5 fuel oil 2 lb/1000 gallons diesel	Good combustion practices, testing,
TRS	≤ 5 ppmv on a dry basis corrected to 8 % oxygen	40 KAR 51:017, PSD permit C-93-044 and 40 CFR 60.283(a)(2)	0.0052 lb/ton BLS	CMS monitoring for TRS,
SO_2	≤ 200 ppmv on a dry basis corrected to 8 % oxygen	40 KAR 51:017, PSD permit C-93-044	0.00687 lb/ton BLS 0.6 lb/mmscf NG 146 lb/1000 gallons #5 fuel oil 0.785 lb/1000 gallons diesel	proper operation of control devices, and CAM
NO_X	≤ 150 ppmv on a dry basis corrected to 8 % oxygen	40 KAR 51:017, PSD permit C-93-044	0.131 lb/ton BLS 0.22 lb/mmscf NG 24.65 lb/1000 gallons #5 fuel oil 0.26 lb/1000 gallons diesel	
PM	≤ 35 % Opacity on a 6-minute average	40 KAR 51:017 PSD permit C-93-044 and 40 CFR 60.282 (a)(1)(ii)	N/A	COMS

Emission Unit EU-27 BPM Recovery Boiler/Furnace No. 3

Initial Construction Date: 7/1985

Process Description:

Emission Unit EU-27 BPM Recovery Boiler/Furnace No. 3		
Emission Point	B-430, 700, and 900	
Description	Recovery boiler No. 3	
Installed	July 1985	
Primary Fuel	BLS blended with 0.12 to 1 volume % ultra-low sulfur diesel	
Secondary Fuel	Natural gas or fuel oil (with less than 0.50% sulfur content)	
Maximum Rated Capacity	383,250 tpy of BLS plus 0.12 to 1 volume percent of ultra-low sulfur diesel fuel	
Process Description	Combustion of the organic portion of the black liquor for steam generation and recovery of the inorganic portion	
Control Equipment	Electrostatic precipitator (ESP)	

Applicable Regulation:

401 KAR 50:012 General Application.

401 KAR 51:017, *Prevention of significant deterioration of air quality.*

401 KAR 59:015, New indirect heat exchangers.

401 KAR 60:005, Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (**Subpart BB**), Standards of Performance for Kraft Pulp Mills.

401 KAR 60:005, Section 2(2)(c), 40 C.F.R. 60.40b through 60.49b (**Subpart Db**), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.

401 KAR 63:002, Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, Table 1 (**Subpart MM**), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills.

40 CFR 64, Compliance Assurance Monitoring.

Comments:

The Division has determined that the following regulations do not apply to EU-27:

401 KAR 59:080, *New kraft (sulfate) pulp mills* is not applicable to EU-27 since it was not installed before April 9, 1972.

401 KAR 61:025, *Existing kraft (sulfate) pulp mills* is not applicable to EU-27 since it was not installed before April 9, 1972.

Emission Unit EU-27 BPM Recovery Boiler/Furnace No. 3

401 KAR 60:005, Section 2(2)(a), 40 C.F.R. 60.40 through 60.46 (**Subpart D**), *Standards of Performance for Fossil-Fuel-Fired Steam Generators* is not applicable to EU-27 since BLS is not a fossil fuel as defined in 40 CFR 60, Subpart D.

401 KAR 60:005, Section 2(2)(d), 40 C.F.R. 60.40c through 60.48c (**Subpart Dc**), *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units* does not apply to EU-27 since the unit was constructed before June 9, 1989.

401 KAR 63:020, *Potentially hazardous matter or toxic substances* does not apply to EU-27 since it is subject to 40 CFR 63, Subpart MM.

The Recovery Boiler/Furnace No. 3 is at a major source as provided under 40 CFR 70 and 71 which is subject to emission limitations for PM/PM₁₀ for which an ESP is used for compliance. The pre-controlled emissions at the Recovery Boiler/Furnace No. 3 are above the threshold to be classified as a major source. CAM was added to the facility with the issuance of permit V-12-036.

The volume of BLS consumed in the boiler and the volume of ultra-low sulfur diesel oil fired in the boiler/furnace shall be monitored.

The facility is exempt from the requirements of 40 CFR 60, Subpart Db for NOx and SO₂ emissions based on the federally enforceable limit on annual capacity factor.

Emission Unit EU-28 BPM Smelt Tank No. 3				
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method
PM	≤ 0.12 lb/ton BLS and ≤ 23 tpy	401 KAR 51:017, PSD permit C-93-044		Monitoring of operating
1 1/1	≤ 0.10 kg/Mg (0.20 lb/ton) BLS	40 CFR 63.862(a)(1)(i)(B)	7.9 lb/ton BLS	conditions and other parameters correlated to
PM ₁₀	\leq 4.7 lb/hour and \leq 20.6 tpy	401 KAR 51:017, PSD permit C-93-044		emissions - CMS for scrubbing liquid
TRS	≤ 0.033 lb/ton BLS (dry weight)	401 KAR 51:017, PSD permit C-93-044	0.008 lb/ton BLS	pressure drop, scrubbing liquid flow
SO_2	≤ 0.1 lb/ton BLS	401 KAR 51:017, PSD permit C-93-044	0.606 lb/ton BLS	rate

Initial Construction Date: 7/1985

Emission Unit EU-28 BPM Smelt Tank No. 3		
Emission Point	B-435, 700, and 900	
Description	Smelt tank No. 3	
Maximum Rated Capacity	383,250 tpy of BLS	
Process Description	Dissolves molten inorganics recovered in the recovery furnace in water to form green liquor	
Control Equipment	Scrubber	

Statement of Basis/Summary Permit: V-25-013

Emission Unit EU-28 BPM Smelt Tank No. 3

Applicable Regulation:

401 KAR 51:017, *Prevention of significant deterioration of air quality.*

401 KAR 60:005, Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (**Subpart BB**), Standards of Performance for Kraft Pulp Mills.

401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, Table 1 (**Subpart MM**), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills.

40 CFR 64, *Compliance Assurance Monitoring*.

Comments:

The Division has determined that the following regulations do not apply to EU-28:

401 KAR 59:080, New kraft (sulfate) pulp mills is not applicable to EU-28 since it was not installed before April 9, 1972

401 KAR 60:005 Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (**Subpart Kb**), *Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984*. The requirements of 40 CFR 60, Subpart Kb are exempt because of a specific exemption granted to process flow through tanks in the pulp and paper industry (Docket No. 00-1218, United States Court of Appeals for the District of Columbia, Federal Register Vol. 68, No. 1999, dated 10/15/2003).

The scrubber liquid flow rate and pressure, and the scrubber pressure drop shall be monitored continuously.

Smelt Tank No. 3 is at a major source as provided under 40 CFR 70 and 71 which is subject to emission limitations for PM/PM_{10} and SO_2 for which a scrubber is used for compliance. The pre-controlled emissions at Smelt Tank No. 3 are above the threshold to be classified as a major source. CAM was added to the facility with the issuance of permit V-12-036 and updated with permit V-25-013.

Emission Unit EU-29 BPM Recovery Boiler/Furnace No. 4				
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method
PM/PM ₁₀	≤ 0.044 gr/dscf at 8% oxygen AND 132.61 tpy	401 KAR 51:017, PSD Permit F-96-003 R1, 40 CFR 60.282(a) (1)(i) and 40 CFR 63.862(a)(1)(i)(A)	30.5 lb/ton BLS 5 lb/mmscf NG 5.77 lb/ ₁₀₀₀ gal #5 FO 0.7 lb/ ₁₀₀₀ gal #5 FO 2 lb/ gal diesel	Good combustion practices, testing, CMS monitoring for TRS, proper operation of control devices, and CAM
СО	\leq 200 ppm at 8% oxygen, and \leq 639.63 tpy	401 KAR 51:017, PSD Permit F-96-003 R1	1.32 (firing BLS) 40 lb/mmscf NG 5.92 lb/ ₁₀₀₀ gal propane 5 lb/ ₁₀₀₀ gal diesel	

Permit: V-25-013

Emission Unit EU-29 BPM Recovery Boiler/Furnace No. 4				
NOx	≤ 110 ppm at 8% oxygen, and ≤ 577.952 tpy	401 KAR 51:017, PSD Permit F-96-003 R1	1.8 (firing BLS) 81.1 lb/mmscf NG 32.9 lb/ ₁₀₀₀ gal #5 FO 13 lb/ ₁₀₀₀ gal propane 0.26 lb/ ₁₀₀₀ gal diesel	
SO_2	≤ 100 ppm at 8% oxygen and ≤ 731.01 tpy	401 KAR 51:017, PSD Permit F-96-003 R1	0.00814 (firing BLS) 0.6 lb/mmscf NG 0.019 lb/ ₁₀₀₀ gal propane 0.785 lb/ ₁₀₀₀ gal diesel	Good combustion practices, testing, CMS monitoring for TRS, proper operation of
TRS	\leq 5 ppm at 8% oxygen and \leq 19.42 tpy	401 KAR 51:017, PSD Permit F-96-003 R1	0.0065 (firing BLS)	control devices, and CAM
VOC	≤ 20 ppm at 8% oxygen and ≤ 100.51 tpy	401 KAR 51:017, PSD Permit F-96-003 R1	0.01 (firing BLS) 1.7 lb/mmscf NG 1 lb/ ₁₀₀₀ gal propane 0.252 lb/ ₁₀₀₀ gal diesel	
PM	≤ 35% Opacity on 6-minute average	401 KAR 51:017, PSD Permit F-96-003 R1 and 40 CFR 60.282 (a)(1)(ii)	N/A	COMS

Initial Construction Date: 10/1997

Process Description:

Emission Unit EU-29 BI	PM Recovery Boiler/Furnace No. 4
Emission Point	B-440 700, and 900
Description	Recovery boiler No. 4
Primary Fuel	BLS blended with 0.12 to 1 volume % ultra-low sulfur diesel
Secondary Fuel	Natural gas, propane or fuel oil (with <0.50% sulfur content)
Maximum Rated Capacity	584,000 tpy of BLS plus 0.12 to 1 volume percent of ultra-low sulfur diesel fuel
Process Description	Combustion of the organic portion of the black liquor for steam generation and recovery of the inorganic portion
Control Equipment	ESP

Applicable Regulation:

401 KAR 51:017, *Prevention of significant deterioration of air quality.*

401 KAR 59:015, *New indirect heat exchangers.*

401 KAR 60:005, Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (**Subpart BB**), Standards of Performance for Kraft Pulp Mills.

401 KAR 60:005, Section 2(2)(c), 40 C.F.R. 60.40b through 60.49b (**Subpart Db**), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.

Permit: V-25-013

Emission Unit EU-29 BPM Recovery Boiler/Furnace No. 4

401 KAR 63:002, Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, Table 1 (**Subpart MM**), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills.

40 CFR 64, Compliance Assurance Monitoring.

Comments:

The Division has determined that the following regulations do not apply to EU-29:

401 KAR 59:080, *New kraft (sulfate) pulp mills* is not applicable to EU-29 since it was not installed before April 9, 1972.

401 KAR 61:025, *Existing kraft (sulfate) pulp mills* is not applicable to EU-29 since it was not installed before April 9, 1972.

401 KAR 60:005, Section 2(2)(a), 40 C.F.R. 60.40 through 60.46 (**Subpart D**), *Standards of Performance for Fossil-Fuel-Fired Steam Generators* is not applicable to EU-29 since BLS is not a fossil fuel as defined in 40 CFR 60, Subpart D.

401 KAR 60:005, Section 2(2)(d), 40 C.F.R. 60.40c through 60.48c (**Subpart Dc**), *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units* does not apply to EU-29 since the unit was constructed before June 9, 1989.

401 KAR 63:020, *Potentially hazardous matter or toxic substances* does not apply to EU-29 since it is subject to 40 CFR 63, Subpart MM.

The Recovery Boiler/Furnace No. 4 is at a major source as provided under 40 CFR 70 and 71 which is subject to emission limitations for PM/PM₁₀ for which an ESP is used for compliance. The pre-controlled emissions at the Recovery Boiler/Furnace No. 4 are above the threshold to be classified as a major source. CAM was added to the facility with the issuance of permit V-12-036.

A CMS for opacity and the TRS measurements. Control Equipment: Electrostatic precipitators (ESP).

The facility is exempt from requirements the requirements of 40 CFR 60, Subpart Db for NOx and SO₂ emissions based on the federally enforceable limit on annual capacity factor.

Emission Unit EU-30 BPM Smelt Tank No. 4				
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method
PM/PM ₁₀	\leq 0.20 lb/ton of BLS and \leq 29.57 tpy	401 KAR 51:017, PSD Permit F-96-003 R1, 40 CFR 60.282(a)(2) and 40 CFR 63.862 (a)(1)(i)(B)	5.8 lb/ton BLS	Monitoring of operating conditions and other parameters
SO_2	\leq 0.1 lb/ton of BLS and \leq 24.64 tpy	401 KAR 51:017, PSD Permit F-96-003 R1	1.39 lb/ton BLS	correlated to emissions - CMS
TRS	\leq .033 lb/ton of BLS and \leq 8.13 tpy	401 KAR 51:017, PSD Permit F-96-003 R1	0.002 lb/ton BLS	for scrubbing liquid pressure drop,
VOC	\leq 0.16 lb/ton of BLS and \leq 39.42 tpy	401 KAR 51:017, PSD Permit F-96-003 R1	0.00217 lb/ton BLS	scrubbing liquid flow rate

Emission Unit EU-30 BPM Smelt Tank No. 4

Initial Construction Date: 10/1997

Process Description:

Emission Unit EU-30 BPM Smelt Tank No. 4		
Emission Point	B-445, 700, and 900	
Description	Smelt tank No. 4	
Maximum Rated Capacity	584,000 tpy of BLS	
Process Description	Dissolves molten inorganics recovered in the recovery furnace in water to form green liquor	
Control Equipment	Scrubber	

Applicable Regulation:

401 KAR 51:017, *Prevention of significant deterioration of air quality.*

401 KAR 60:005, Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (**Subpart BB**), Standards of Performance for Kraft Pulp Mills.

401 KAR 63:002, Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, Table 1 (**Subpart MM**), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills.

40 CFR 64, *Compliance Assurance Monitoring*.

Comments:

The Division has determined that the following regulations do not apply to EU-30:

401 KAR 59:080, New kraft (sulfate) pulp mills is not applicable to EU-30 since it was not installed before April 9, 1972

401 KAR 60:005 Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (**Subpart Kb**), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. The requirements of 40 CFR 60, Subpart Kb are exempt because of a specific exemption granted to process flow through tanks in the pulp and paper industry (Docket No. 00-1218, United States Court of Appeals for the District of Columbia, Federal Register Vol. 68, No. 1999, dated 10/15/2003).

The scrubber liquid flow rate and pressure, and the scrubber pressure drop shall be monitored continuously.

Smelt Tank No. 4 is at a major source as provided under 40 CFR 70 and 71 which is subject to emission limitations for PM/PM_{10} and SO_2 for which a scrubber is used for compliance. The pre-controlled emissions at Smelt Tank No. 4 are above the threshold to be classified as a major source. CAM was added to the facility with the issuance of permit V-12-036 and updated with permit V-25-013.

40 CFR 63, Subpart MM was revised and finalized on November 5, 2020 to include alternative scrubber fan amperage or revolutions per minute. The alternative applies to dynamic scrubbers that operate at ambient pressure; and therefore applies to EU-30 which operates at ambient pressure.

Emission Units: EU-31; EU-39; EU-41; EU-43; EU-49; EU-50; EU-51; EU-52; EU-53

Initial Construction Date: EU-31: 11/1997 (modified 10/2016); EU-39: 10/1995; EU-41: 7/1997; EU-43: 7/1969; EU-49, EU-50:12/1996; EU-51: 12/1980; EU-52, EU-53: 6/1998

Emission Unit EU-31 BPN	A Causticizing Tanks
Emission Point	Description
B-501, B-502, B-503	3 Causticizing tanks
B-504, B-505	3 Lime mud washers
B-506, B507	1 Lime mud storages
B-508	1 Mud mix tank
Maximum Rated Capacity	165,219 tpy calcium oxide (CaO)
Process Description	Conversion of inorganic material in green liquor to white liquor (pulping chemical)

Emission Unit EU-39 BPN	I Green Liquor Clarifiers
Emission Point	B-680, B-681, 700, and 900
Description	Two green liquor clarifiers
Maximum Rated Capacity	72,000 gallons/hour green liquor or 18.86 tons/hour of CaO
Process Description	Storage and remove inert solids from the green liquor until it is utilized in the re-causticizing process

Emission Unit EU-41 BPN	I Process Water (Wastewater) Treatment
Emission Point	B-800, 700, and 900
Description	Process water treatment
Maximum Rated Capacity	25 million gallons per day
Process Description	Biologically treatment of contaminants in spent process water prior to release into the Ohio river

Emission Unit EU-43 BPI	M Bleach Mill Pulp Dryer System
Emission Point	B-1000 to B-1005, 700, and 900
Description	Pulp dryer system
Maximum Rated Capacity	167,900 tpy ADP
Process Description	Manufacture of market pulp

Emission Unit EU-49 BPN	A Brown Stock HD Storage
Emission Point	B-1600, and B1601
Description	Brown Stock high density (HD) Storage
Maximum Rated Capacity	632,700 tpy ODP
Process Description	Storage of unbleached pulp until processed in the pulp bleaching process

Emission Units: EU-31; EU-39; EU-41; EU-43; EU-49; EU-50; EU-51; EU-52; EU-53

Emission Unit EU-50 BPM Bleached Pulp HD Storage		
Emission Point	Description	
B-1700, B-1701, B-1702 and B-1703	Four (4) Bleached Pulp HD Storage Tanks	
Maximum Rated Capacity	B-1700: 63,270 tpy ODP B-1701: 31,635 tpy ODP B-1702, B-1703: 601,900 tpy ODP	
Process Description	Storage of bleached pulp until it is utilized to manufacture market pulp or paper	

Emission Unit EU-51 H-1 Paper Machine		
Emission Point	Description	
F-1, F-2, ,F-3	Vacuum pump, Size press, Reel pulper	
F-4, F-5, F-6, F-7, F-8, F-9	Dryer hoods	
F-10	Fugitives	
Maximum Rated Capacity	252,428 tpy ADP	
Process Description	Manufacture of paper	

Emission Unit EU-52 H-2 Paper Machine		
Emission Point	Description	
F-20, F-21, F-22	Vacuum pump, Size press, Reel pulper	
F-23, F-24, F-25, F-26, F-27, F-28	Dryer hoods	
F-29	Fugitives	
Maximum Rated Capacity	469,407 tpy ODP	
Process Description	Manufacture of paper	

Emission Unit EU-53	H-1 & 2 Paper Machine Stock Preparation
Emission Point	Description
F-30; F-31; F-32 F-33; F-34	Broke chests Hardwood chests Surge chests
Maximum Rated Capacity	8,900,000 x 10 ³ gallons/year
Process Description	Prepares and stores pulp prior to being manufactured into paper

Applicable Regulation:

None

Permit: V-25-013

Emission Units: EU-31; EU-39; EU-41; EU-43; EU-49; EU-50; EU-51; EU-52; EU-53

Comments:

401 KAR 50:012 *General Application*. applies to all major air contaminant sources for which there is no standard specified in 401 KAR 50 to 65 for VOC emissions and requires that as a minimum, sources apply control procedures that are reasonable, available, and practical (RAP). While emissions at the above emission units do not have an applicable standard for VOC, the EPA has addressed HAP emissions from all sources of emissions at pulp and paper mills during the development of 40 CFR 63, Subpart S. The emission units above are part of paper making process. Therefore, since the EPA has addressed emissions from the paper making process for which 40 CFR 63, Subpart S would be applicable, 401 KAR 50:012 analysis is not required for the above emission units.

All emission units above do not have control.

The above units are part of the causticizing and papermaking process and part of the pulp and paper source category. The provisions of 40 CFR 63 Subpart S (NESHAP for pulp and paper source category) would apply to processes that produce pulp, paper, or paperboard; located at a plant site that is a major source as defined in 40 CFR 63.2 of subpart A; and that use kraft, soda, sulfite, or semi-chemical pulping processes using wood. However, they are not an affected source as defined in 40 CFR 63 Subpart S for processes specified in 40 CFR 63.440(a)(1). They would be an affected source if the facility opts to comply with the clean condensate alternative where the affected source is the pulping system, bleaching system, causticizing system, and papermaking system. In addition, in the Federal Register Vol. 63, No. 72, April 15, 1998 EPA has identified that papermaking systems would not be required to undergo section 112(g) review. Therefore 401 KAR 63:020 does not apply to the emission units above.

Emission Unit EU-33 BPM Slaker No. 3 Emission Unit EU-37 BPM Lime Silos Emission Unit EU-38 BPM Petroleum Coke Storage Silo					
Pollutant	EU	Emission Unit Electric Emission Limit or Standard	U-54 H-1 & 2 Star Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method
PM	33 37 38 54	When $P \le 0.5$ tons/hr E = 2.34 lb/hr When $P > 0.5$, ≤ 30 tons/hr $E = 3.59 \times P^{0.62}$ Where: E = PM in lb/hr; P = process rate in tons/hr	401 KAR 59:010, Section 3(2)	0.62 lb/ton 0.47 lb/ton 0.47 lb/ton 0.47 lb/ton	Proper operation of control device
	33 37 38 54	20% Opacity	401 KAR 59:010, Section 3(1)(a)	N/A	Visual emission observation once per calendar day & Method 9 if needed See Comments

Emission Unit EU-33 BPM Slaker No. 3
Emission Unit EU-37 BPM Lime Silos
Emission Unit EU-38 BPM Petroleum Coke Storage Silo
Emission Unit EU-54 H-1 & 2 Starch Silos

Initial Construction Date: EU-33: 11/1997; EU-37: 11/1997; EU-38: 12/1986: EU-54: 6/1998

Emission Unit EU-33 BPM Slaker No. 3		
Emission Point	B-530, 700, and 900	
Description	Slaker No. 3	
Maximum Rated Capacity	72,000 gallons/hour green liquor or 18.86 tons/hour of CaO	
Process Description	Conversion of inorganic material in green liquor to white liquor (pulping chemical)	
Control Equipment	Wet scrubber	

Emission Unit EU-37 BPM Lime Silos		
Emission Point	B-650, 700, and 900	
Description	Lime silos (2)	
Maximum Rated Capacity	165,219 tpy CaO	
Process Description	Storage of lime produced by the kiln or purchased lime until it is utilized in the re-causticizing process	
Control Equipment	Baghouse (fabric filter) integral to the unit	

Emission Unit EU-38 BPN	I Petroleum Coke Storage Silo
Emission Point	B-660, 700, and 900
Description	Coke Silo
Maximum Rated Capacity	17,500 tpy of coke
Process Description	Storage of petroleum coke until utilized as fuel in the lime kiln (emission unit EU-36)
Control Equipment	Baghouse (fabric filter) integral to the unit

Emission Unit EU-54 H-1 & 2 Starch Silos		
Emission Point	Description	
F-40, F-42	H-1 & H-2 wet end starch silos	
F-41, F-43	H-1 & H-2 dry end starch silos	
Maximum Rated Capacity	29,930 tpy	
Process Description	Storage of dry starch during the period it is unloaded from transport vehicle until it is utilized in the paper making process	
Control Equipment	Baghouse (fabric filter) integral to the unit	

Emission Unit EU-33 BPM Slaker No. 3 Emission Unit EU-37 BPM Lime Silos Emission Unit EU-38 BPM Petroleum Coke Storage Silo Emission Unit EU-54 H-1 & 2 Starch Silos

Applicable Regulation:

401 KAR 59:010, New Process Operations.

Comments:

To preclude the applicability of 401 KAR 51:017, emission unit EU-38 shall be controlled by a baghouse (fabric filter). [401 KAR 52:020, Section 10]

If after 180 days of daily visual observations there have been no visible emissions observed, then the permittee may reduce visual observations to no less than weekly while the affected facility is operating. If during weekly visual observations, visible emissions are observed, then the permittee shall resume to perform daily visual observations.

Emission Unit EU-36 BPM Lime Kiln #3				
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method
PM/PM ₁₀	≤ 38.89 tpy	PSD Permit F-96-003 R1 and netting Title V/PSD Permit V-04-012	12 lb/ton	Stack tested emission factor,
PM	≤ 0.15 g/dscm (0.064 gr/dscf) corrected to 10 % oxygen	40 CFR 63.862(a)(1)(i)(C)	12 10/tOH	rolling total of monthly emission rates for annual
CO	≤ 300 ppm at 10% oxygen and 243.57 tpy	401 KAR 51:017, PSD Permit F-96-003 R1	0.013 lb/ton	emissions
NOx	\leq 150 ppm at 10% oxygen, and 200.07 tpy	401 KAR 51:017, PSD Permit F-96-003 R1	1.741 lb/ton	Stack tested
SO_2	≤73 ppm at 10% oxygen, and 135.78 tpy	401 KAR 51:017, PSD Permit F-96-003 R1 and netting Title V/PSD Permit V-04-012	0.525 lb/ton	emission factor, rolling total of monthly emission
	≤ 7.89 tpy	401 KAR 51:017, PSD Permit F-96-003 R1	0.054 lb/ton	rates for annual emissions
	AN	ND from any lime kiln, any gase	s which contain	
TRS	≤8 ppmv on a dry basis, corrected to 10 percent oxygen	40 CFR 60.283(a)(5)]	NA	Good combustion practices, testing, CMS monitoring for TRS, proper operation of control devices, and CAM

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	Emission Unit EU-36 BPM Lime Kiln #3			
VOC	measured as methane ≤ 75 ppm at 10% oxygen, and 93.18 tpy	401 KAR 51:017, PSD Permit F-96-003 R1	0.0024 lb/ton	Stack tested emission factor, rolling total of monthly emission rates for annual emissions

Initial Construction Date: 11/1997

Process Description:

Emission Unit EU-36 BPM Lime Kiln No. 3		
Emission Point	B-630	
Description	Lime kiln No. 3 (Includes PCC Plant)	
Primary Fuel	Petroleum coke/natural gas	
Secondary Fuel	Fuel Oil (with <0.50% sulfur content) and propane	
Maximum Rated Capacity	165,219 tpy CaO	
Process Description	Conversion of calcium carbonate (CaCO ₃) to CaO for use in the re-causticizing process and as a backup incineration device for LVHC and SOG	
Control Equipment	ESP	
Comments	This unit may serve as an alternate combustion device for the treatment of organic HAP	

Applicable Regulation:

401 KAR 51:017, Prevention of significant deterioration of air quality.

401 KAR 60:005, Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (**Subpart BB**), Standards of Performance for Kraft Pulp Mills.

401 KAR 63:002, Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, Table 1 (**Subpart MM**), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills.

40 CFR 64, Compliance Assurance Monitoring.

Comments:

The Division has determined that the following regulations do not apply to EU-36:

401 KAR 59:080, *New kraft (sulfate) pulp mills* is not applicable to EU-36 since it was not installed before April 9, 1972.

401 KAR 61:025, *Existing kraft (sulfate) pulp mills* is not applicable to EU-36 since it was not installed before April 9, 1972.

401 KAR 63:020, *Potentially hazardous matter or toxic substances* does not apply to EU-36 since it is subject to 40 CFR 63, Subpart MM.

Statement of Basis/Summary Permit: V-25-013

Emission Unit EU-36 BPM Lime Kiln #3

Lime Kiln No. 3 is at a major source as provided under 40 CFR 70 and 71 which is subject to emission limitations for PM/PM₁₀ for which an ESP is used for compliance. The pre-controlled emissions at Lime Kiln No. 3 are above the threshold to be classified as a major source. CAM was added to the facility with the issuance of permit V-12-036.

	Emission Unit EU-40 BPM NCG/SOG Incinerator					
Pollutant	Emission	Regulatory Basis for Emission	Emission	Compliance Method		
	Limit or	Limit or Standard	Factor Used			
	Standard		and Basis			
!	≤ 12.8	401 KAR 51:017, PSD Permit F-	6.1516 lb/ton			
PM/PM_{10}	lb/hour and	96-003 R1 and netting Title	0.7 lb/mmscf	Stack tested emission factor,		
	56.1 tpy	V/PSD Permit V-04-12	propane	<u>′</u>		
<u> </u>	\leq 12.6 lb/	401 KAR 51:017, PSD Permit	0.00016 lb/ton	rolling total of monthly emission rates for annual		
CO	hour and \leq	F-96-003 R1	7.5 lb/mmscf	emissions, proper operation of		
	55.19 tpy	1'-90-003 K1	7.5 10/111111801	control device and monitoring		
	\leq 19.13 lb/	401 KAR 51:017, PSD Permit	0.27 lb/ton	of parameters for the scrubber		
NOx	hour and \leq	F-96-003 R1 and netting Title	13 lb/mmscf	of parameters for the serubber		
	83.8 tpy	V/PSD Permit V-04-012	propane			
TDC	< 0.02 +	401 KAR 51:017, PSD Permit	0.0001 11 /400	Monitoring, Good combustion		
TRS	\leq 0.92 tpy	F-96-003 R1	0.0021 lb/ton	practices, testing, CMS		
	≤ 3.3 lb/	401 KAR 51:017, PSD Permit	0.646 lb/ton	monitoring for temperature		
SO.	\leq 3.3 10/ hour and \leq	F-96-003 R1 and netting Title	0.046 10/1011	TRS, proper operation of		
SO_2		V/PSD Permit V-04-012		control devices, and CAM,		
	14.42 tpy	V/PSD Periiii V-04-012	propane	LDAR		
!	as CH ₄ ≤			Stack tested emission factor,		
!	50 ppm		0.189 lb/ton	rolling total of monthly		
VOC	corrected	401 KAR 51:017, PSD Permit	1 lb/mmscf propane	emission rates for annual		
, 50	to 8% Ox	F-96-003 R1		emissions, proper operation of		
	and \leq		propune	control device and monitoring		
	12.57 tpy			of parameters for the scrubber		

Initial Construction Date: 11/1997

Emission Unit EU-40 BPN	A NCG/SOG Incinerator
Emission Point	B-700
Description	NCG/SOG incinerator
Primary Fuel	Compounds in HVLC, LVHC, SOG and natural gas
Secondary Fuel	Propane (heat input: 2.04 mmBtu/hour)
Maximum Rated Capacity	512,487 oven dried tpy
Process Description	Destruction of HAPs generated during the pulping and liquor recovery processes
Control Equipment	Scrubber and low NO _X burner

Emission Unit EU-40 BPM NCG/SOG Incinerator

Applicable Regulation:

401 KAR 51:017, *Prevention of significant deterioration of air quality.*

401 KAR 60:005, Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (**Subpart BB**), Standards of Performance for Kraft Pulp Mills.

401 KAR 63:002, Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, Table 1 (**Subpart S**), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry.

40 CFR 64, Compliance Assurance Monitoring.

Comments:

The Division has determined that the following regulations do not apply to EU-40:

401 KAR 59:080, *New kraft (sulfate) pulp mills* is not applicable to EU-40 since it was not installed before April 9, 1972.

401 KAR 61:025, *Existing kraft (sulfate) pulp mills* is not applicable to EU-40 since it was not installed before April 9, 1972.

401 KAR 63:020, *Potentially hazardous matter or toxic substances* does not apply to EU-40 since it is subject to 40 CFR 63, Subpart S.

The NCG/SOG Incinerator is at a major source as provided under 40 CFR 70 and 71 which is subject to emission limitations for PM/PM₁₀ and SO₂ for which a wet scrubber is used for compliance. The precontrolled emissions at the NCG/SOG Incinerator are above the threshold to be classified as a major source. CAM was added to the facility with the issuance of permit V-12-036.

	Emission Unit EU-42 BPM Bio-fuel Boiler				
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method	
PM/PM ₁₀	0.10 lb/mmBtu and 43.8 tpy	PSD/Netting permits F-96- 003 R1 and V-04-012, and 40 CFR 60.436(b)	15 lb pm/ton		
Filterable PM	7.4×10 ⁻³ lb/mmBtu heat input; (6.4×10 ⁻⁵ lb/mmBtu heat input) OR 9.2×10 ⁻³ lb/mmBtu steam output	Item 9 in Table 2, to 40 CFR 63, Subpart DDDDD	15 lb pm/ton	Testing, Specific	
(TSM)	1.1×10 ⁻¹ lb/mmBtu heat input; (1.2×10 ⁻³ lb/mmBtu heat input) OR 1.4×10 ⁻¹ lb/mmBtu steam output	Item 9 in Table 15, to 40 CFR 63, Subpart DDDDD	13 to pin/ton	Recordkeeping, and Reporting Requirements	
	0.3 lb/mmBtu and 827.82 tpy 210 ppmvd corrected to 3% O2;	PSD permit F-96-003 R1			
CO (CEMS)	(310 ppmvd corrected to 3% O2, (310 ppmvd corrected to 3% O2, 30-day rolling average) OR 2.1×10 ⁻¹ lb/mmBtu steam output	CFK 63, Subpart	0.017 lb/ton		

Statement of Basis/Summary Permit: V-25-013

	Emission Unit EU-42 BPM Bio-fuel Boiler				
CO (CEMS)	470 ppmvd corrected to 3% O ₂ ; (310 ppmvd corrected to 3% O ₂ , 30-day rolling average) OR 4.6×10 ⁻¹ lb/mmBtu steam output	CFK 05, Subpart	0.017 lb/ton		
	0.25 lb/mmBtu and 830.0 tpy	PSD/Netting permits F- 96-003 R1 and V-04-012	2.1 lb/ton		
	When fi	iring gaseous fuels			
NO_X	0.20 lb/mmBtu	40 CFR 60.44b(a)	100 lb/mmscf		
	When	firing Fuel Oil #2			
	0.20 lb/mmBtu	40 CFR 60.44b(a)	24 lb/ ₁₀₀₀ gal		
SO_2	0.033 lb/mmBtu and 73.67 tpy	PSD/Netting permits F- 96-003 R1 and V-04-012	0.03 lb/ton	Testing, Specific Recordkeeping,	
VOC	0.10 mmBtu and 257.54 tpy	PSD permit F-96-003 R1	0.0004 lb/ton	and Reporting	
	2.0×10 ⁻² lb/mmBtu heat input; OR 2.3×10 ⁻² lb/mmBtu steam output	Item 1 in Table 2, 40 CFR 63, Subpart DDDDD	0.00811	Requirements	
HCL	2.2×10 ⁻² lb/mmBtu heat input; OR 2.5×10 ⁻² lb/mmBtu steam output	Item 1 in Table 15, 40 CFR 63, Subpart	lb/ton		
Manager	5.4×10 ⁻⁶ lb/mmBtu heat input; OR 6.2×10 ⁻⁶ lb/mmBtu steam output	Item 1 in Table 2, 40 CFR 63, Subpart	0.0000171		
Mercury	5.7×10 ⁻⁶ lb/mmBtu heat input; OR 6.4×10 ⁻⁶ lb/mmBtu steam output	Item 1 in Table 15, 40 CFR 63, Subpart DDDDD	lb/ton		
PM	20% Opacity	40 CFR 60.43b(f)	N/A	COMS	

Initial Construction Date: 5/1997

Process Description:

Emission Unit EU-42 BPM Bio-fuel Boiler with Oxygen Trim System				
Emission Point	B-900			
Description	To process waste wood/hogged fuel for steam generation and as a backup incineration device for HVLC's			
Primary Fuel	Waste wood/hogged fuel			
Secondary Fuel	Natural gas, fuel oil (<0.50% sulfur content), and propane			
Maximum Rated Capacity	1050 mmBtu/hour; (Hogged fuel input: 570 mmBtu/hour) (Natural gas fuel input: 480 mmBtu/hour)			
Process Description	Processes waste wood/hogged fuel for steam generation			
Control Equipment	ESP			

Applicable Regulation: 401 KAR 51:017, *Prevention of significant deterioration of air quality*.

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Emission Unit EU-42 BPM Bio-fuel Boiler

401 KAR 59:015, New indirect heat exchangers.

401 KAR 60:005, Section 2(2)(c), 40 C.F.R. 60.40b through 60.49b (**Subpart Db**), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.

401 KAR 63:002, Section 2(4)(iiii), 40 C.F.R. 63.7480 through 63.7575, Tables 1 through 15 (**Subpart DDDDD**), National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.

40 CFR 64, Compliance Assurance Monitoring.

Comments:

The Division has determined that the following regulations do not apply to EU-42:

401 KAR 60:005, Section 2(2)(a), 40 C.F.R. 60.40 through 60.46 (Subpart D), *Standards of Performance for Fossil-Fuel-Fired Steam Generators* is not applicable to EU-42 pursuant 40 CFR 60.40b(j) wherein any affected facility meeting the applicability requirements under 40 CFR 60.40b(a) and commencing construction, modification, or reconstruction after June 19, 1986 is not subject to 40 CFR 60, Subpart D.

401 KAR **60:005**, Section **2(2)(b)**, 40 C.F.R. **60.40Da** through **60.52Da** (Subpart Da), *Standards of Performance for Electric Utility Steam Generating Units* does not apply since the unit is not an electric utility steam generating unit.

401 KAR **60:005**, Section **2(2)(d)**, 40 C.F.R. 60.40c through 60.48c (Subpart Dc), *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units* does not apply to EU-29 since the unit has a maximum design heat input greater than 100 mmBtu/hr.

The Bio-fuel Boiler is at a major source as provided under 40 CFR 70 and 71 which is subject to emission limitations for PM/PM_{10} for which an ESP is used for compliance. The pre-controlled emissions at the Biofuel Boiler are above the threshold to be classified as a major source. CAM was added to the facility with the issuance of permit V-12-036.

Emission Unit EU-44 BPM Chips & Wood Fuel Unloading					
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method	
PM/PM ₁₀	0.09 lb/hour 0.4 tpy	PSD permit F-96-003 R1	0.000187 lb PM/ton 9.3x10 ⁻⁵ lb PM ₁₀ /ton	Calculated hourly and annual emissions using emission factors from EPA, NCASI, and equipment manufacturer	
Opacity	20 %	401 KAR 59;010, Section 3(1)(a)	N/A	Visual observation once per calendar day & Method 9 if needed	
Initial Construction Date: 4/1988					

Emission Unit EU-44 BPM Chips & Wood Fuel Unloading

Process Description:

Emission Unit EU-44 BPN	A Chips & Wood Fuel Unloading
Emission Point	B-1100, B-1101, 700, and 900
Description	BPM truck railcar unloading
Maximum Rated Capacity	2,628,000 tpy, 300 tons/hour (monthly average)
Process Description	Unloading of chips used for the manufacture of pulp and to unload wood fuel
Control Equipment	None

Applicable Regulation:

401 KAR 51:017, *Prevention of significant deterioration of air quality.*

401 KAR 59:010, New process operations.

Comments:

Maximum Rated Capacity: 2,628,000 tpy, 300 tons/hour (monthly average)

If after a six-month daily observation period, there has been no visible emissions observed then the survey frequency may be reduced to once per calendar week. If during a reduced weekly frequency survey, visible emissions are observed, then the survey frequency shall return to daily.

Emission Unit EU-45 BPM Chips & Wood Fuel Handling					
Pollutant	Emission Limit Regulatory Basis for		Emission Factor	Compliance Method	
	or Standard	Emission Limit or Standard	Used and Basis		
			0.00044 lb		
PM/PM ₁₀	0.274 lb/hour 1.2 tpy	PSD permit F-96-003 R1	PM/ton	Emission factor provided in	
1 1/1 1/10			0.00021 lb	application	
			PM ₁₀ /ton		
		401 KAR 29;010,		Visual observation once per	
Opacity	20%	Section 3(1)(a)	, ,	N/A	calendar day & Method 9 if
		Section 3(1)(a)		needed	

Initial Construction Date: 4/1998

Emission Unit EU-45 BP	M Chips & Wood Fuel Handling
Emission Point	B-1200 and B-1201
Emission 1 omt	B-1202, 700, and 900
	Chip screening
Description	Chip & wood fuel reclaiming
	Transfer chip piles
Maximum Rated Capacity	2,409,000 tpy, 275 tons/hour (monthly average)
Process Description	Transports chips to the pulping process and wood fuel to the
Flocess Description	boilers

Emission Unit EU-45		it EU-45	BPM Chips & Wood Fuel Handling	
Control Equipment		None		

Applicable Regulation:

401 KAR 51:017, *Prevention of significant deterioration of air quality.*

401 KAR 59:010, New process operations.

Comments:

Maximum rated capacity of 275 tons per hour, or 2,409,000 tpy.

If after a six-month daily observation period, there has been no visible emissions observed then the survey frequency may be reduced to once per calendar week. If during a reduced weekly frequency survey, visible emissions are observed, then the survey frequency shall return to daily.

Emission Unit EU-48 BPM Methanol Storage Tank

Initial Construction Date: 2/1998

Process Description:

Emission Unit EU-48	BPM Methanol Storage Tank
Emission Point	B-1500
Description	Methanol storage tank
Maximum Rated Capacity	< 20,000 gallons maximum storage; 6,176,020 gallons/year
Process Description	Storage of methanol until utilized to manufacture ClO ₂
Control Equipment	None

Applicable Regulation:

401 KAR 60:005, Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (**Subpart Kb**), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984.

401 KAR 63:002, Section 2(4)(kkk), 40 C.F.R. 63.2330 through 63.2406, Tables 1 through 12 (**Subpart EEEE**), *National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)*.

Comments:

Maximum Rated Capacity: Less than 20,000 gallons maximum storage capacity; 6,176,020 gallons/year

Emission Unit EU-57 Wood Chip Barge Unloading and Transfer

Initial Construction Date: 1/2012

Process Description:

Emission Unit EU-57	Wood Chip Barge Unloading and Transfer
Emission Point	Barge unloading system consisting of 4 transfer points
Description	Wood chips are unloaded from barge using claim-shell crane to a conveyor, transferred to a hopper and dropped to another conveyor to deliver the chips to the existing wood chip handling area
Maximum Rated Capacity	1,000 tons wood chips per hour; and 2,628,000 tons wood chips per year at 40% moisture
Process Description	Transports chips from barge unloading terminal to wood chip handling area in Emission Unit 44 and 45
Control Equipment	None

Applicable Regulation:

401 KAR 63:010, Fugitive emissions.

Comments:

No controls. Maximum rated capacity of 750 tons per hour, or 2,628,000 tons per year at 40% moisture. Potential emissions are based on 1067 hours of operation per year. Unit consists of 4 transfer points. Emission factor of 5.0×10^{-5} lb/ton PT per transfer point.

Emission Units: A58-03; A58-04 BPM; A58-05; A58-06; A58-08; A58-09; A58-10

Initial Construction Date: A58-03: 1997; A58-04: 1995; A58-05: 2001; A58-06: 1979; A58-08: 1966;

A58-09: 1996; A58-10: 2007

Emission Unit	Description	Manufacture Date	Rated Capacity hp	Emission Unit Name
A58-03	Caterpillar 3306 PC	1997	385	BPM recovery emergency generator
A58-04	Continental TMD27	1995	66	BPM lime kiln no. 3 generator
A58-05	Caterpillar 3306	2001	382	BPM turbine emergency generator
A58-06	Caterpillar 3304PC	1979	142	BPM Recaust emergency generator
A58-08	Cummins NHC-4-1P	1966	332	KMM Fire pond emergency engine
A58-09	Caterpillar 3412	1996	896	FPM H-2 emergency generator
A58-10	Generac SD010	2004	18.8	Guard shack emergency generator

Emission Units: A58-03; A58-04 BPM; A58-05; A58-06; A58-08; A58-09; A58-10

Applicable Regulation:

401 KAR 63:002, Section 2(4)(eeee), 40 C.F.R. 63.6580 through 63.6675, Tables 1a through 8, and Appendix A (**Subpart ZZZZ**), *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*.

Comments:

The Division has determined that the following regulations do not apply to A58-05, A58-06, A58-08, A58-09, and A58-10:

401 KAR 60:005, Section 2(2)(dddd), 40 C.F.R. 60.4200 through 60.4219, Tables 1 through 8 (**Subpart IIII**), *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines* does not apply to the engines listed above because they were all manufactured before April 1, 2006.

401 KAR 60:005, Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (**Subpart JJJJ**), *Standards of Performance for Stationary Spark Ignition Internal Combustion Engines* does not apply to the engines listed above because they are all diesel fired and are not spark ignition.

Caterpillar 3306PC, 385 HP, Diesel Fired. 19.7 gallon/hour fuel consumption.

Continental TMD27, 66 HP, Diesel Fired. 3.4 gallon/hour fuel consumption.

Caterpillar 3306, 382 HP, Diesel Fired. 19.5 gallon/hour fuel consumption.

Caterpillar 3304PC, 142 HP, Diesel Fired. 7.25 gallon/hour fuel consumption.

Caterpillar NHC-4-1P, 332 HP, Diesel Fired. 17.0 gallon/hour fuel consumption.

Caterpillar 3412, 896 HP, Diesel Fired. 45.78 gallon/hour fuel consumption.

Generac SD010, 18.8 HP, Diesel Fired. 0.96 gallon/hour fuel consumption.

Emission Unit A58-11 Server Room Generator					
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method	
NOx	2.0 g/HP-hour, 160 ppmvd @ 15% O ₂	40 CFR 60, Subpart JJJJ	2254.2 lb/mmscf, AP-42 3.2-3	1.	
СО	4.0 g/HP-hour, 540 ppmvd @ 15% O ₂	40 CFR 60, Subpart JJJJ	3794.4 lb/mmscf AP-42 3.2-3	Engine certification or testing	
VOC	1.0 g/HP-hour, 86 ppmvd @ 15% O ₂	40 CFR 60, Subpart JJJJ	30.19 lb/mmscf AP-42 3.2-3	or testing	

Initial Construction Date: 10/2011

Emission Unit	Description	Manufacture Date	Rated Capacity	Purpose
A58-11	Cummins WSG-1068	2011	176 hp	Server room generator

Permit: V-25-013

Emission Unit A58-11 Server Room Generator

Applicable Regulation:

401 KAR 63:002, Section 2(4)(eeee), 40 C.F.R. 63.6580 through 63.6675, Tables 1a through 8, and Appendix A (**Subpart ZZZZ**), *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*.

401 KAR 60:005, Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (**Subpart JJJJ**), *Standards of Performance for Stationary Spark Ignition Internal Combustion Engines*.

Comments:

The Division has determined that the following regulations do not apply to A58-11:

401 KAR 60:005, Section 2(2)(dddd), 40 C.F.R. 60.4200 through 60.4219, Tables 1 through 8 (**Subpart IIII**), *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines* does not apply to the engine because it is not a spark ignition engine.

Certified Cummins WSG-1068, 176 HP, Natural Gas-Fired, 4 Stroke Rich Burn. 0.0013 mmscf/hour fuel consumption.

Emission Unit A58-12 Gate G Generator					
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method	
HC + NOx	8.0 g/kW-hr	40 CFR 60.4231(a) and Table1	2700.98 lb/mmscf, EPA Certified Engine		
СО	610 g/kW-hr	to 40 CFR 1054.105	98585.92 lb/mmscf EPA Certified	Certification	

Initial Construction Date: 3/2020

Process Description:

Emission Unit	Description	Manufacture Date	Rated Capacity	Purpose
A58-12	Generac G0070321	June 2019	14.75 hp	Gate G generator

Applicable Regulation:

401 KAR 63:002, Section 2(4)(eeee), 40 C.F.R. 63.6580 through 63.6675, Tables 1a through 8, and Appendix A (**Subpart ZZZZ**), *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*.

401 KAR 60:005, Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (**Subpart JJJJ**), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines.

Comments:

Certified Generac G0070321, 14.75 HP, LPG (Propane)-Fired, 4 Stroke Rich Burn. 0.00005 mmscf/hour fuel consumption.

	Emission Unit A58-02 BPM Fire Pond Engine Emission Unit A58-07 FPM Fire Pond Engine										
Pollutant	EU	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method						
СО	A58-02 A58-07	230 ppmvd @ 15% O ₂	Item 2 of Table 2c to 40 CFR 63, Subpart ZZZZ	130.15 lb/ ₁₀₀₀ gal, AP-42 3.3-1	Performance Testing, Monitoring, Reporting						

Initial Construction Date: A58-02: 1979; A58-07: 1996

Process Description:

Emission Unit	Description	Manufacture Date	Rated Capacity	Purpose
A58-02	Caterpillar 3306 PC	1979	249	BPM Fire pond engine
A58-07	Caterpillar 3306	1996	287	FPM Fire pond engine

Applicable Regulation:

401 KAR 63:002, Section 2(4)(eeee), 40 C.F.R. 63.6580 through 63.6675, Tables 1a through 8, and Appendix A (**Subpart ZZZZ**), *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*.

Comments

The Division has determined that the following regulations do not apply to A58-02 and A58-07:

401 KAR **60:005**, Section **2(2)(dddd)**, 40 C.F.R. **60.4200** through **60.4219**, Tables 1 through 8 (**Subpart IIII**), *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines* does not apply to the engines listed above because they were all manufactured before April 1, 2006.

401 KAR 60:005, Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (**Subpart JJJJ**), *Standards of Performance for Stationary Spark Ignition Internal Combustion Engines* does not apply to the engines listed above because they are all diesel fired and are not spark ignition.

401 KAR 51:017, *Prevention of significant deterioration of air quality* has been precluded by taking a synthetic minor limitation on hours of operation for each engine.

Caterpillar 3306PC, 249 HP, Diesel Fired. 12.7 gallon/hour fuel consumption. 1,500 hour synthetic limit. Caterpillar 3306, 287 HP, Diesel Fired. 14.66 gallon/hour fuel consumption. 1,500 hour synthetic limit.

		Emission Unit EU	-59 Backup Boiler	
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method
PM/PM ₁₀	0.10 lb/mmBtu;	401 KAR 59:015, Section 4(1)(b)	7.6 lb/10 ⁶ scf AP-42 1.4-2	Initial Testing
PM	20 % Opacity	401 KAR 59:015, Section 4(2)	N/A	Assumed to be in compliance by burning natural gas

Statement of Basis/Summary

Permit: V-25-013

		Emission Unit EU	-59 Backup Boiler	
NO_X	0.20 lb/mmBtu	40 CFR 60.44b(a)	36.3 lb/10 ⁶ scf Vendor supplied	Initial Testing and CEMS
20	0.80 lb/mmBtu	401 KAR 59:015 Section 5(1)(b)	0.6 lb/10 ⁶ scf AP-42 1.4-2	Assumed to be in compliance by burning natural gas
SO_2	0.20 lb/mmBtu	40 CFR 60.42b(k)(1)	0.6 lb/10 ⁶ scf AP-42 1.4-2	Exempt based on Fuel records

Initial Construction Date: 12/2018

Process Description:

Emission Unit EU-59	Emission Unit EU-59 Backup Boiler with Oxygen Trim System										
Emission Point	Cleaver-Brooks package boiler; Model NB-701D-130; SN RT-4123										
Description	358.6 mmBtu/hour boiler firing gas 1 fuels										
Maximum Rated Capacity	0.3586 mmscf/hour										
Process Description	Backup boiler										
Control Equipment	None										

Applicable Regulation:

401 KAR 51:160, NO_X requirements for large utility and industrial boilers.

401 KAR 51:220, *CAIR NO_X ozone season trading program*.

401 KAR 59:015, *New indirect heat exchangers.*

401 KAR 60:005, Section 2(2)(c), 40 C.F.R. 60.40b through 60.49b (**Subpart Db**), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.

401 KAR 63:002, Section 2(4)(iiii), 40 C.F.R. 63.7480 through 63.7575, Tables 1 through 15 (**Subpart DDDDD**), National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.

Comments:

Maximum Rated Capacity: 0.3586 mmscf/hour. No controls. CEM installed for NO_X.

401 KAR 51:017 *Prevention of significant deterioration of air quality.*

To preclude applicability of 401 KAR 51:017 Section 8 through 16, emissions from the boiler shall not exceed the following tons per year based on 12-month rolling total: [401 KAR 52:020, Section 10]

 $NO_X 38.0$

CO 87.9

 $PM_{2.5}8.0$

Emission Unit EU-59 Backup Boiler

For compliance with the synthetic minor emission limitations the maximum fuel usage rate shall not exceed 2,093.66 mmscf/year. [401 KAR 52:020, Section 10]

Pursuant to 40 CFR 60.42b(k)(2), units firing only very low sulfur oil, gaseous fuel, a mixture of these fuels, or a mixture of these fuels with any other fuels with a potential SO_2 emission rate of 140 ng/J (0.32 lb/mmBtu) heat input or less are exempt from the SO_2 emissions limit of 0.2 lb/mmBtu in 40 CFR 60.42b(k)(1).

Since the permittee only burns natural gas it is not subject to the compliance and performance testing requirements of 40 CFR 60.45b if the permittee obtains fuel receipts as described in 40 CFR 60.49b(r).

The results of the initial testing conducted using reference methods in 401 KAR 50.015 shall include the lb/mmBtu of PM/PM_{10} and NO_X .

To determine compliance with the emission limits for NO_X required under 40 CFR 60.44b, the permittee shall conduct the performance test as required under 40 CFR 60.8 using the continuous system for monitoring NO_X under 40 CFR 60.48(b). [40 CFR 60.46b(e)]

While 401 KAR 51:160 and 401 KAR 51:220 are applicable to EU-59 neither regulations contain requirements which apply to EU-59. These regulations pertain to CAIR NO_X Oxone Season Units as defined in 40 CFR 96.302 as units that are subject to the CAIR NO_X Ozone Season Trading Program under 40 CFR 96.304. Furthermore, pursuant to 40 CFR 96.304(a)(1), units in a State shall be CAIR NO_X Ozone Season units if the units are a fossil-fuel-fired boiler or stationary, fossil-fuel-fired combustion turbine serving at any time, since the later of November 15, 1990 or the start-up of the unit's combustion chamber, a generator with nameplate capacity of more than 25 MWe producing electricity for sale. EU-59 would be subject to the requirements of 401 KAR 51:160 and 401 KAR 51:220, but because it does not produce electricity for sale, it is not subject to the requirements of either regulation.

SECTION 3 – EMISSIONS, LIMITATIONS AND BASIS (CONTINUED)

Testing Requirements\Results

Emission Unit(s)	Control Device	Parameter	Regulatory Basis	Frequency	Test Method	Permit Limit	Test Result	Thruput and Operating Parameter(s) Established During Test	Activity Graybar	Date of last Compliance Testing
EU-40 (NCG/SOG incinerator)	Scrubber	PM/PM ₁₀	401 KAR 51:017	As Required	5	12.8 lb/hr 56.1 tpy	13.86 lb/hr 50.1 tpy	1465 ODP/day	CMN20050011	9/15/2005
EU-40 (NCG/SOG incinerator)	Scrubber	PM/PM ₁₀	401 KAR 51:017	As Required	5	12.8 lb/hr	0.466 lb/hr	53 ODTP/hr	CMN20060003	1/25/2006
EU-28		Particulate	401 IZAD		5	0.12 lb/ton BLS	0.08 lb/ton BLS	00.714.5		
(BPM Smelt Tank No. 3)	Scrubber	PM ₁₀	401 KAR 51:017	5 years	5	4.7 lb/hr 20.6 tpy	3.72 lb/hr 16.1 tpy	88,714.5 BLS	CMN20060004	5/11/2006
		SO_2			6c	200 ppm	3.1 ppm			
EU-40 (NCG/SOG incinerator)	NA	TRS	401 KAR 51:017	As Required	16	NA	0.00107 lb/to ODTP	58.5 ODTP/hr	CMN20060011	8/29/2006
EU-40 (NCG/SOG incinerator)	NA	SO_2	401 KAR 51:017	As Required	6	3.3 lb/hr 14.45 tpy	2.02 lb/hr 10.65 tpy	62.4 ODTP/hr	CMN20060013	8/11/2006
EU-40 (NCG/SOG incinerator)	Scrubber	PM/PM ₁₀	401 KAR 51:017	As Required	5b	12.8 lb/hr	6.60 lb/hr	53.84 ODTP/hr	CMN20070016	8/24/2007
EU-36	NA	NOx	401 KAR	5 years	7E	150 ppm @ 10% O ₂	129.54 ppm @ 10% O ₂	300.50 ton	CMN20070019	11/6/2007
No. 3)	1111	SO ₂	51:017	3 years	6C	73.0 ppm @ 10% O ₂	28.5 ppm @ 10% O ₂	CaO/day	CI/II (2007001)	11/0/2007

Emission Unit(s)	Control Device	Parameter	Regulatory Basis	Frequency	Test Method	Permit Limit	Test Result	Thruput and Operating Parameter(s) Established During Test	Activity Graybar	Date of last Compliance Testing
KMM		Particulate			5	0.1 lb/mmBtu	0.0025 lb/mmBtu			
Package Boiler (Removed)	NA	SO_2	401 KAR 51:017	As Required	8	0.8 lb/mmBtu 40 tpy	0.00066 lb/mmBtu 0.11 tpy	199.2 mmBtu/hr	CMN20080010	3/6/2008
		NOx			7E	40 tpy	23 tpy			
EU-19, EU-20,	Bleach	Chlorinated HAP	40 CFR	_	251	10 ppmv	0 ppmv	53 tons	G1 D120000011	2/11/2000
EU-21 (Bleach Plant)	Plant Scrubber	ClO ₂	63.445(c)	5 years	26A	10 ppmv	1.77 ppmv	ODP/hour	CMN20080011	3/11/20008
		Particulate			5	0.1 lb/mmBtu	0.007 lb/mmBtu			
KMM Package	NA	SO_2	401 KAR 51:017	As Dogwined	8	0.315 lb/mmBtu 40 tpy	0.00089 lb/mmBtu 0.07 tpy	162.4 mmBtu/hr	CMN20080012	3/5/2008
Boiler (Removed)		NOx	31:017	Required	7E	0.2 lb/mmBtu 40 tpy	0.1 lb/mmBtu 8.09 tpy	IIIIIBtu/III		
		VOC			25A	99 tpy	0.66 tpy			
EU-36		Particulate	40 CFR 63.862(a)(1) (i)(C)		5	0.064 gr/dscf @ 10% O ₂	0.0049 gr/dscf @ 10% O ₂	315.1 CaO		8/27/2008
(Lime Kiln No. 3)	ESP	VOC	401 KAR	5 years	25A	75 ppm @ 10% O ₂	0.34 ppm @ 10% O ₂	tons/day	CMN20080018	& 9/3/2008 & 9/3/2008
		СО	51:017		10B	300 ppm @ 10% O ₂	1.09 ppm @ 10% O ₂			

Emission Unit(s)	Control Device	Parameter	Regulatory Basis	Frequency	Test Method	Permit Limit	Test Result	Thruput and Operating Parameter(s) Established During Test	Activity Graybar	Date of last Compliance Testing
		Particulate	40 CFR 63.7520	Annually	5	0.07 lb/mmBtu	0.01 lb/mmBtu			
EU-42	ESP	SO_2		Within 5	8	0.02 lb/mmBtu	0.002 lb/mmBtu	605.85	CMN20080018	8/27/2008
(Bio Fuel Boiler)	ESP	VOC	401 KAR 51:017	years of most	25A	0.1 lb/mmBtu	0.000026 lb/mmBtu	mmBtu/hour	CMIN20080018	& 9/3/2008
		СО	01017	recent test.	10B	0.3 lb/mmBtu	0.000114 lb/mmBtu			
EU-19, EU-20,	Bleach Plant	Chlorine	40 CFR	Within 5 years of	26A	10 ppm	0 ppm	54.63	CMN20090012	6/9/2009
EU-21 (Bleach plant)	Scrubber	Chlorine Dioxide	63.445(c)	most recent test.	20A	10 ppm	0.3 ppm	tons/hour	CWIN20090012	0/ // 2009
EU-36		TRS			16	10%	1.4%			
(Lime Kiln No. 3)		O_2			3A	1%	0.28%			
EU-27 (Recovery		TRS			16	10%	3.4%			
Furnace No	EGD	O ₂	DATA	A 11	3A	1%	0.19%	"Normal	CMN120000015	8/25/2009 –
EU-29 (Recovery	ESP	TRS	RATA	Annually	16	10%	1.7%	Load"	CMN20090015	8/28/2009
Furnace No.		O_2			3A	1%	0.19%			
EU-42		NOx			7E	20%	2.9%			
(Bio Fuel Boiler)		O_2			3A	1%	0.08%			
EU-27 (Recovery furnace no. 3)	ESP	Particulate	40 CFR	Within 5 years of	7E	150 ppm @ 8% O ₂	66.1 PPM @ 8% O ₂	32.9 BLS tons/hour	CMN20090018	12/9/2009 -
EU-29 (Recovery Furnace No 4)	LOF	Particulate	63.865	most recent test.	7E	110 ppm @ 8% O ₂	92.3 PPM @ 8% O ₂	63.06 BLS tons/hour	CIVII 1 2 0 0 7 0 0 1 8	12/11/2009

Emission Unit(s)	Control Device	Parameter	Regulatory Basis	Frequency	Test Method	Permit Limit	Test Result	Thruput and Operating Parameter(s) Established During Test	Activity Graybar	Date of last Compliance Testing
EU-36		TRS			16	10%	6.7%	252.14 gpm lime		
(Lime Kiln No. 3)		O_2			3	1%	0.18%	mud precoat filter flow		
EU-27		TRS			16	10%	5.4%	225.54		
(Recovery Furnace No 3)	ESP	O_2	RATA	Annually	3	1%	0.09%	KPPH Steam	CMN20100018	8/18/2010-
EU-29	LSF	TRS	KAIA	Ailliually	16	10%	6.4%	432.89	CIVII\20100016	8/20/2010
(Recovery Furnace No 4)		O_2			3	1%	0.13%	KPPH steam		
EU-42		NOx			7E	20%	14.1%	311.03		
(Bio fuel Boiler)		O_2			3A	1%	0.41%	KPPH steam		
EU-36		TRS			16	10%	2.14%	299.8 gpm lime mud precoat		
(Lime Kiln No. 3)		O_2			3	1%	0.52%	filter flow		
EU-27		TRS			16	10%	4.19%	294.38		
(Recovery Furnace No 3)	ESP	O_2	RATA	Annually	3	1%	0.03%	KPPH steam	CMN20110016	8/2/2011 –
EU-29		TRS			16	10%	3.93%	406.47		8/4/2011
(Recovery Furnace No 4)		O_2			3	1%	0.31%	KPPH steam		
EU-42		NOx			7E	20%	10.67%	177.47		
(Bio Fuel Boiler)		O_2			3A	1%	0.18%	KPPH steam		
EU-36		TRS			16	10%	2.07%	299.81 CaO		
(Lime Kiln No. 3)		O_2			3	1%	0.01%	tons/day		
EU-27	ESP	TRS	рата	Annually	16	10%	2.3%	270.81	CMN20120022	7/31/2012 -
(Recovery Furnace No 3)	LSF	O_2	RATA Annually	3	1%	0.09%	KPPH Steam	CIVII \20120022	8/2/2012	
EU-29	TRS	TRS		16	10%	1.72%	469.77			
(Recovery Furnace No. 4)		O_2			3	1%	0.26%	KPPH Steam		

Emission Unit(s)	Control Device	Parameter	Regulatory Basis	Frequency	Test Method	Permit Limit	Test Result	Thruput and Operating Parameter(s) Established During Test	Activity Graybar	Date of last Compliance Testing
EU-42 (Bio Fuel Boiler)	ESP	NOx O ₂	RATA	Annually	7E 3A	20%	2.62% 0.21%	292.16 KPPH Steam	CMN20120022	7/31/2012 – 8/2/2012
EU-42 (Bio Fuel Boiler)	ESP	NOx	RATA	Annually	7E	20%	6.98%	292.86 KPPH Steam	CMN20130015	9/24/2013
EU-27 (Recovery Furnace No. 3)	ESP	TRS O ₂	RATA	Annually	16 3	10% 1%	6.06% 0.16%	270.81 KPPH Steam	CMN20130016	9/12/2013
EU-36 (Lime Kiln No. 3)	ESP	TRS O ₂	RATA	Annually	16 3	10% 1%	3.59% 0.27%	194.61 CaO tons/day	CMN20130018	9/26/2013
EU-29 (Recovery Furnace No. 4)	ESP	TRS O ₂	RATA	Annually	16 3	10% 1%	1.4% 0.2%	72.38 KPPH Steam	CMN20130021	9/11/2013
EU-28 (BPM Smelt Tank No. 3)	Scrubber	TRS	401 KAR 51:017	5 years	16	0.03 lb/ton	0.011 lb/ton	47.76 BLS tons/hour	CMN20130022	9/12/2013
EU-30 (BPM Smelt Tank No. 4)	Scrubber	TRS	401 KAR 51:017	5 years	16	0.033 lb/ton BLS	0.003 lb/ton BLS	72.38 BLS tons/hour	CMN20130023	9/11/2013
		Particulate	40 CFR 63.7520	Annually	5-8	0.07 lb/mmBtu	0.004 lb/mmBtu			
		SO_2	401 KAR	5 years	5-8	0.02 lb/mmBtu	0.0029 lb/mmBtu			
EU-42 (Bio Fuel Boiler)	ESP	VOC	51:017	3 years	25A	0.1 lb/mmBtu	0.0052 lb/mmBtu	617 mmBtu/hour	CMN20130024	11/21/2013
,		СО	401 KAR 51:017	5 years	10	0.3 lb/mmBtu	0.034 lb/mmBtu			
		NO_X	401 KAR 51:017	5 years	7E	0.2 lb/mmBtu	0.15 lb/mmBtu			

Emission Unit(s)	Control Device	Parameter	Regulatory Basis	Frequency	Test Method	Permit Limit	Test Result	Thruput and Operating Parameter(s) Established During Test	Activity Graybar	Date of last Compliance Testing
EU-28	Scrubber	Particulate	40 CFR 63.865	5 years	5	0.12 lb/ton BLS	0.0785 lb/ton BLS	49.07 BLS	CMN20130025	11/19/2013
(BPM Smelt Tank No. 3)	Scrubber	SO_2	401 KAR 51:017	3 years	8	0.1 lb/ton BLS	0.0222 lb/ton BLS	tons/hour	CWIN20130023	11/19/2013
		Particulate	40 CFR 63.862(a)(1) (i)(C)		5-8	0.064 gr/dscf @ 10% O ₂	0.0063 gr/dscf @ 10% O ₂			
EU-36		SO_2			5-8	73 ppm @10% O ₂	0.335 ppm @10% O ₂	422.2 G-O		
(Lime Kiln No. 3)	ESP	VOC	401 KAR	5 years	25A	75 ppm @10% O ₂	3.08 ppm @10% O ₂	433.2 CaO tons/day	CMN20130026	12/12/2013
		СО	51:017		10	300 ppm @10% O ₂	0.851 ppm @10% O ₂			
		NOx			7E	150 ppm @10% O ₂	66.8 ppm @10% O ₂			
EU-27		Particulate	401 W A D		5	0.025 gr/dscf @ 8% O ₂	0.020 gr/dscf @ 8% O ₂	40 C2 DI C		
(Recovery Furnace No 3)	ESP	NOx	401 KAR 51:017	5 years	7E	150 ppm @ 8% O ₂	82.7 ppm @ 8% O ₂	49.63 BLS tons/hour	CMN20130027	10/24/2013
		SO ₂			8	200 ppm @ 8% O ₂	0.82 ppm @ 8% O ₂			
		Particulate			5	0.2 lb/ton BLS	0.1 lb/ton BLS			
EU-30 (BPM Smelt Tank No. 4)	Scrubber	SO_2	401 KAR 51:017	5 years	8	0.1 lb/ton BLS	0.404 lb/ton BLS	76.35 BLS tons/hour	CMN20130028	12/10/2013
Tulik 110. 7)		VOC			25A	0.16 lb/ton BLS	0.0009 lb/ton BLS			

Emission Unit(s)	Control Device	Parameter	Regulatory Basis	Frequency	Test Method	Permit Limit	Test Result	Thruput and Operating Parameter(s) Established During Test	Activity Graybar	Date of last Compliance Testing
		Particulate			5	0.044 gr/dscf @ 8% O ₂	0.0125 gr/dscf @ 8% O ₂			
		NO_X			7E	110 ppm @ 8% O ₂	89.8 ppm @ 8% O ₂			
EU-29 (Recovery Furnace No 4)	ESP	SO_2	401 KAR 51:017	5 years	8	100 ppm @ 8% O ₂	0.519 ppm @ 8% O ₂	74.2 BLS tons/hour	CMN20130029	10/22/2013
rumace No 4)		СО			10	200 ppm @ 8% O ₂	173.8 ppm @ 8% O ₂			
		VOC			25A	20 ppm @ 8% O ₂	0 ppm @ 8% O ₂			
EU-27 (Recovery Furnace No. 3)	ESP	TRS	401 KAR 51:017	5 years	16	5 ppm @ 8% O ₂	1.31 ppm @ 8% O ₂	47.46 BLS Tons/hour	CMN20130031	9/12/2013
EU-29 (Recovery Furnace No 4)	ESP	TRS	401 KAR 51:017	5 years	16	5 ppm @ 8% O ₂	0.41ppm @ 8% O ₂	72.38 BLS tons/hour	CMN20130032	9/11/2013
EU-36 (Lime Kiln No. 3)	ESP	TRS	401 KAR 51:017	5 years	16	8 ppm @ 10% O ₂ , 7.89 tpy	1.89 ppm @ 10% O ₂ , 2.18 tpy	430.38 CaO ton/day	CMN20130034	12/10/2013
A58-02 (BPM Fire Pond Engine)	None	СО	40 CFR 63 Subpart ZZZZ	Initially	10	230 ppm @ 15% O ₂	127.83 ppm	628 HP	CMN20150013	3/31/2015
A58-07 (FPM Fire Pond Engine)	None	СО	40 CFR 63 Subpart ZZZZ	Initially	ASTM D6522	230 ppm @ 15% O2	21.81 ppm @ 15% O2	287 HP	CMN20150015	6/25/2015
EU-19, EU-20,	Bleach Plant	Chlorinated HAP	40 CFR	5 years	26A	10 ppm	0 ppm	60.87 ODP	CMN20150017	11/10/2015
EU-21 (Bleach Plant)	Scrubber	ClO ₂	63.445(c)	5 years	20A	0.35 lb/hour	0.35 lb/hour	tons/hour	CWIN20130017	11/10/2013

Emission Unit(s)	Control Device	Parameter	Regulatory Basis	Frequency	Test Method	Permit Limit	Test Result	Thruput and Operating Parameter(s) Established During Test	Activity Graybar	Date of last Compliance Testing
		Particulate	401 KAR 51:017	Annually	5	0.10 lb/mmBtu	0.00299 lb/mmBtu	656.81		
EU-42		HCl	Item 1 in table 2 to 40 CFR 63,	Annually OR Every 3 years	26A	0.022 lb/mmBtu	0.000114 lb/mmBtu	mmBtu/hour		2/22/2017
(Bio Fuel Boiler)	ESP	Hg	Subpart DDDDD		30B	5.70×10 ⁻⁶ lb/mmBtu	2.47×10 ⁻⁷ lb/mmBtu	632.78 mmBtu/hour	CMN20170001	2/22/2017- 2/23/2017
		СО	Item 9 in table 2 to 40 CFR 63, Subpart DDDDD		10	470 ppm @ 3% O ₂	42.5 ppm @ 3% O ₂			
EU-36	ECD	TRS	RATA		16C	10%	2%	358.91 CaO		
(Lime Kiln No. 3)		O2	RATA		3A	1%	0.03%	tons /day		
EU-27	ESP	TRS	RATA		16C	10%	3.24%	265.191		
(Recovery Furnace No. 3)	ESP	O2	RATA		3A	1%	0.21%	KPPH steam		8/15/2017-
EU-29	ESP	TRS	RATA	Annually	16C	10%	2.84%	457.105	CMN20170015	8/17/2017
(Recovery Furnace No 4)	LSF	O2	RATA		3A	1%	0.17%	KPPH steam		
EU-42 (Bio Fuel	ESP	NOx	RATA		7E	10 lb/mmBtu	4.48 lb/mmBtu	314.465 KPPH steam		
Boiler)		O2	RATA		3A	1%	0.34%	KPPH steam		
EU-40 (NCG/SOG incinerator)	Wet Scrubber	Particulate	401 KAR 51:017	As Required	5B	12.8 lb/hour; 56.1 tpy	2.29 lb/hour; 10.03 tpy	59.26 ODP tons/hour	CMN20170016	10/11/2017
		Particulate			5	0.025 gr/dscf @ 8% O ₂	0.020 gr/dscf @ 8% O ₂			
EU-27 (Recovery Furnace No 3)	ESP	NOx	401 KAR 51:017	5 years	7E	150 ppm @ 8% O ₂	44.31 ppm @ 8% O ₂	44 BLS tons/hour	CMN20180015	12/3/2018
Turnuce 110 J)		SO_2			8	200 ppm @ 8% O ₂	103.4 ppm @ 8% O ₂			

Emission Unit(s)	Control Device	Parameter	Regulatory Basis	Frequency	Test Method	Permit Limit	Test Result	Thruput and Operating Parameter(s) Established During Test	Activity Graybar	Date of last Compliance Testing	
EU-27 (Recovery Furnace No 3)	ESP	TRS	401 KAR 51:017	5 years	16	5 ppm @ 8% O ₂	1.07 ppm @ 8% O ₂	44 BLS tons/hour	CMN20180015	12/3/2018	
		Particulate			5	0.044 gr/dscf @ 8% O ₂	0.019 gr/dscf @ 8% O ₂				
		NO _X		5 years	7E	110 ppm @ 8% O ₂	70.97 ppm @ 8% O ₂		CMN20180016		
EU-29		SO_2	401 KAR		8	100 ppm @ 8% O ₂	1.39 ppm @ 8% O ₂	67 BLS		11/27/2018	
(Recovery Furnace No 4)	ESP	СО	51:017 5 years		10	200 ppm @ 8% O ₂	69.72 ppm @ 8% O ₂	tons/hour			
		VOC			25A	20 ppm @ 8% O ₂	6.322 ppm @ 8% O ₂				
		TRS			16	5 ppm @ 8% O ₂	0.155 ppm @ 8% O ₂				
		Particulate	40 CFR 63.862(a)(1) (i)(C)		5	0.064 gr/dscf @ 10% O ₂	0.013 gr/dscf @ 10% O ₂				
		SO_2			5-8	73 ppm @10% O ₂	3.228 ppm @10% O ₂				
EU-36 (Lime Kiln	ESP	VOC		5 years	25A	75 ppm @10% O ₂	5.313 ppm @10% O ₂	19 CaO	CMN20180017	11/29/2018	
No. 3)		CO	401 KAR 51:017	71	R	10	300 ppm @10% O ₂	51.85 ppm @10% O ₂	tons/hr		
		NOx			7E	150 ppm @10% O ₂	60.9 ppm @10% O ₂	- -			
		TRS			16	8 ppm @10% O ₂	1.501 ppm @10% O ₂				

Emission Unit(s)	Control Device	Parameter	Regulatory Basis	Frequency	Test Method	Permit Limit	Test Result	Thruput and Operating Parameter(s) Established During Test	Activity Graybar	Date of last Compliance Testing
EU-40	Wet	Methanol	40 CFR 63.443(d)	As	308	20 ppm @ 10% O ₂	1.265 ppm @ 10% O ₂	59.38 ADTP/	CMN20180018	11/28/2018
(NCG/SOG incinerator)	Scrubber	TRS	401 KAR 51:017	Required	16	0.92 tpy	0.0054 lb/hr	hour		11/28/2018
		NO _X			7E	0.25 lb/mmBtu	0.195 lb/mmBtu		CMN20180019	
EU-42 (Bio Fuel Boiler)	ESP	SO ₂	401 KAR 51:017	1:017 S years	6C	0.033 lb/mmBtu	0.005 lb/mmBtu	643 mmBtu/hour		11/30/2018
		VOC			25A	0.10 lb/mmBtu	0.014 lb/mmBtu			
		Particulate	40 CFR 63.865		5	0.12 lb/ton BLS	0.1031 lb/ton BLS			
EU-28 (BPM Smelt Tank No. 3)	Scrubber	SO_2	401 KAR 5 years	5 years	5 years 8	0.1 lb/ton BLS	0.0404 lb/ton BLS	49.07 BLS tons/hour		3/20/2019
Tank No. 5)		TRS	51:017		16C	0.033 lb/ton BLS	0.0268 lb/ton BLS			
		Particulate			5	0.2 lb/ton BLS	0.05 lb/ton BLS		CMN20190013	
EU-30 (BPM Smelt Tank No. 4)	Scrubber	SO ₂	401 KAR	5 voors	8	0.1 lb/ton BLS	0.1 lb/ton		3/12/2019	
		VOC	51:017	5 years	25A	0.16 lb/ton BLS	0.0006 lb/ton BLS	tons/hour		3/12/2019
		TRS			16C	0.033 lb/ton BLS	0.0169 lb/ton BLS			

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Emission Unit(s)	Control Device	Parameter	Regulatory Basis	Frequency	Test Method	Permit Limit	Test Result	Thruput and Operating Parameter(s) Established During Test	Activity Graybar	Date of last Compliance Testing
		NO _X - Zero Drift			PS2	2%	0.03%			3/18/2019- 3/24/2019
EU-59 (Backup	None	NO _X - Span Drift	40 CFR 60.44b(1)	As Required	132	270	0.25%	358.6 MW	CMN20190016	
Boiler)		Initial NO _X CEMS	00.110(1)		25A	0.2 lb/mmBtu	0.0736 lb/mmBtu			3/21/2019
		Filterable PM	Item 9 in table 2 to 40 CFR 63,	CFR 63, part Annually OR Every n table 2 3 years	5	1.1×10 ⁻¹ lb/mmBtu	1.01×10 ⁻³ lb/mmBtu	311.54	CMN20200001	2/25/2020- 2/26/2020
EU-42	EGD	СО	Subpart DDDDD		•	470 ppmv @3% O ₂	122.9 lb/mmBtu	mmBtu/hour Natural Gas		
(Bio Fuel Boiler)	ESP	HCl	Item 1 in table 2 to 40 CFR 63,		- 1	2.2×10 ⁻² lb/mmBtu	2.32×10 ⁻⁴ lb/mmBtu	346.87 mmBtu/hr		
		Hg	Subpart DDDDD		30B	5.7×10 ⁻⁶ lb/mmBtu	*3.5×10 ⁻⁷ lb/mmBtu	Wood		
EU-19, EU-20, EU-21 (Bleach Plant)	Bleach Plant Scrubber	ClO ₂	40 CFR 63.445(c)	5 VAare	26A, 40 CFR 63.457 (b)(5)(ii)	3.24 lb/hr	7.3 ppm 0.87 lb/hr 0.0138 lb/ton ODP	63.103 ODP tons/hour	CMN20200018	11/5/2020
		Chlorinated HAP	03.443(0)	-		10 ppmv 0.002 lb/ton ODP	0.00 ppm 0.00 lb/ton ODP			

Footnote:

^{*} CMN20200001; Analytical QC Fail for Hg. Method 30B specifies sampling and analytical QC standards did not meet. Specifically, the Field Recovery Test and Paired Trap Agreement, %Relative Deviation being above specification for all runs.

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Emission Unit(s)	Control Device	Parameter	Regulatory Basis	Frequency	Test Method	Permit Limit	Test Result	Thruput and Operating Parameter(s) Established During Test	Activity Graybar	Date of last Compliance Testing
		Filterable PM	Item 9 in table 2 to 40 CFR 63,		5	1.1×10 ⁻¹ lb/mmBtu	1.29×10 ⁻² lb/mmBtu			
EU-42	ESP	СО	Subpart DDDDD	Annually OR Every 3 years	10	470 ppmv @ 3% O ₂	65.47 ppmv @ 3% O ₂	675.86 mmBtu/hr heat input	CMN20230001	2/2/2023
(Bio Fuel Boiler)	ESP	HCl	Item 1 in table 2 to 40 CFR 63,		26A	2.2×10 ⁻² lb/mmBtu	1.1×10 ⁻⁴ lb/mmBtu			
		Hg	Subpart DDDDD		30B	5.7×10 ⁻⁶ lb/mmBtu	2.96×10 ⁻⁷ lb/mmBtu			
		Particulate		5	0.2 lb/ton BLS	TBD				
EU-30	Camphhan	SO_2	401 KAR	£	8	0.1 lb/ton BLS	TBD	TBD*	TBD	TBD
(BPM Smelt Tank No. 4)	Scrubber	VOC	51:017	5 years	25A	0.16 lb/ton BLS	TBD			
		TRS			16C	0.033 lb/ton BLS	TBD			

Footnotes:

* Scrubbing liquid flow rate and scrubber pressure drop or fan amperage or RPM will be verified or reestablished by compliance testing.

SECTION 4 – SOURCE INFORMATION AND REQUIREMENTS

Table A - Group Requirements:

Emission and Operating Limit	Regulation	Emission Unit
3.24 lb/hr of ClO ₂	401 KAR 63:021, Existing sources emitting toxic air pollutants	Source- wide
358.8 lb/hr of Hydrogen Chloride	401 KAR 63:021, Existing sources emitting toxic air pollutants	Source- wide

Table B - Summary of Applicable Regulations:

401 KAR 50:012, General Application EU-09, EU-24, EU-27 401 KAR 51:017, Prevention of significant deterioration of air quality. EU-30, EU-36, EU-40, EU-42, EU-44, EU-45 401 KAR 51:160, NO _X requirements for large utility and industrial boilers. EU-59 401 KAR 51:220, CAIR NO _X ozone season trading program. EU-59 401 KAR 59:010, New process operations. EU-33, EU-37, EU-38, EU-44, EU-45, EU-59 401 KAR 59:015, New indirect heat exchangers. EU-42, EU-59 401 KAR 59:050, New storage vessels for petroleum liquids. EU-10, EU-47 401 KAR 60:005, Section 2(2)(c), 40 C.F.R. 60.40b through 60.49b Kubpart Db), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. EU-59 401 KAR 60:005 Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b Kubpart Kb), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 Kubpart BB), Standards of Performance for Kraft Pulp Mills. EU-36, EU-40 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JIJI), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, EU-36, EU-40 401 KAR 63:002 Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, EU-20, EU-21, EU-22, EU-21, EU	Applicable Regulations	Emission Unit
quality. 401 KAR 51:160, NO _X requirements for large utility and industrial boilers. 401 KAR 51:220, CAIR NO _X ozone season trading program. 401 KAR 59:010, New process operations. 401 KAR 59:010, New indirect heat exchangers. 401 KAR 59:050, New indirect heat exchangers. 401 KAR 59:050, New storage vessels for petroleum liquids. 401 KAR 60:005, Section 2(2)(c), 40 C.F.R. 60.40b through 60.49b (Subpart Db), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. 401 KAR 60:005 Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (Subpart Kb), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (Subpart BB), Standards of Performance for Kraft Pulp Mills. 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.285 (EU-36, EU-40) (EU-36, EU-40) (EU-42, EU-40) (EU-42, EU-40) (EU-42, EU-40) (EU-42, EU-40) (EU-41, EU-42, EU-40) (EU-41, EU-43, EU-44, EU-40) (EU-41, EU-44, EU-45, EU-46, EU-46, EU-47, EU-48, EU-46, EU-47, EU-48, EU-49, EU-48, EU-49,	401 KAR 50:012, General Application	EU-09, EU-24, EU-27
401 KAR 51:160, NOx requirements for large utility and industrial boilers. 401 KAR 51:220, CAIR NOx ozone season trading program. 401 KAR 59:010, New process operations. 401 KAR 59:015, New indirect heat exchangers. 401 KAR 59:015, New indirect heat exchangers. 401 KAR 59:050, New storage vessels for petroleum liquids. 401 KAR 60:005, Section 2(2)(c), 40 C.F.R. 60.40b through 60.49b (Subpart Db), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. 401 KAR 60:005 Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (Subpart Kb), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (Subpart BB), Standards of Performance for Kraft Pulp Mills. 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.285 (EU-36, EU-40) (EU-36, EU-36, EU	401 KAR 51:017, Prevention of significant deterioration of air	EU-27, EU-28, EU-29,
401 KAR 51:120, CAIR NO _X ozone season trading program. 401 KAR 51:220, CAIR NO _X ozone season trading program. 401 KAR 59:010, New process operations. 401 KAR 59:015, New indirect heat exchangers. 401 KAR 59:015, New indirect heat exchangers. 401 KAR 59:050, New storage vessels for petroleum liquids. 401 KAR 60:005, Section 2(2)(c), 40 C.F.R. 60.40b through 60.49b (Subpart Db), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. 401 KAR 60:005 Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (Subpart Kb), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (Subpart BB), Standards of Performance for Kraft Pulp Mills. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (EU-14, EU-22, EU-27, (Subpart BB), Standards of Performance for Kraft Pulp Mills. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (EU-28, EU-29, EU-30, EU-36, EU-40 401 KAR 60:005 Section 2(2)(keee), 40 C.F.R. 60.4230 through 63.459, EU-29, EU-30, EU-30	quality.	EU-30, EU-36, EU-40,
### Bulletin Book		EU-42, EU-44, EU-45
401 KAR 51:220, CAIR NO _X ozone season trading program. 401 KAR 59:010, New process operations. 401 KAR 59:015, New indirect heat exchangers. 401 KAR 59:050, New storage vessels for petroleum liquids. 401 KAR 60:005, Section 2(2)(c), 40 C.F.R. 60.40b through 60.49b (Subpart Db), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. 401 KAR 60:005 Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (Subpart Kb), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (Subpart BB), Standards of Performance for Kraft Pulp Mills. EU-14, EU-22, EU-27, (Subpart BB), Standards of Performance for Kraft Pulp Mills. EU-14, EU-22, EU-27, EU-28, EU-29, EU-30, EU-36, EU-40 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. 401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, EU-27, EU-28, EU-29, EU-30, EU-	401 KAR 51:160, NO_X requirements for large utility and industrial	EU-59
401 KAR 59:010, New process operations. EU-33, EU-37, EU-38, EU-44, EU-45, EU-54 401 KAR 59:050, New indirect heat exchangers. EU-42, EU-59 401 KAR 59:050, New storage vessels for petroleum liquids. EU-10, EU-47 401 KAR 60:005, Section 2(2)(c), 40 C.F.R. 60.40b through 60.49b (Subpart Db), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. 401 KAR 60:005 Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (Subpart Kb), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (EU-14, EU-22, EU-27, (Subpart BB), Standards of Performance for Kraft Pulp Mills. EU-36, EU-40 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, EU-09, EU-14, EU-19, Pollutants from the Pulp and Paper Industry. 401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, EU-27, EU-28, EU-29, Table 1 (Subpart MM), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft,	boilers.	
401 KAR 59:015, New indirect heat exchangers. 401 KAR 59:050, New storage vessels for petroleum liquids. 401 KAR 60:005, Section 2(2)(c), 40 C.F.R. 60.40b through 60.49b (Subpart Db), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. 401 KAR 60:005 Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (Subpart Kb), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (Subpart BB), Standards of Performance for Kraft Pulp Mills. 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(l), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. 401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, Table 1 (Subpart MM), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft,	401 KAR 51:220, CAIR NO _X ozone season trading program.	EU-59
401 KAR 59:015, New indirect heat exchangers. 401 KAR 60:005, Section 2(2)(c), 40 C.F.R. 60.40b through 60.49b (Subpart Db), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. 401 KAR 60:005 Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (Subpart Kb), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (Subpart BB), Standards of Performance for Kraft Pulp Mills. 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.285 (EU-14, EU-22, EU-27, EU-28, EU-36, EU-36, EU-40) 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(l), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. 401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, Table 1 (Subpart MM), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft,	401 KAR 59:010, New process operations.	EU-33, EU-37, EU-38,
401 KAR 59:050, New storage vessels for petroleum liquids. 401 KAR 60:005, Section 2(2)(c), 40 C.F.R. 60.40b through 60.49b (Subpart Db), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. 401 KAR 60:005 Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (Subpart Kb), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (Subpart BB), Standards of Performance for Kraft Pulp Mills. 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(l), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. 401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, Table 1 (Subpart MM), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft,		EU-44, EU-45, EU-54
401 KAR 60:005, Section 2(2)(c), 40 C.F.R. 60.40b through 60.49b (Subpart Db), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. 401 KAR 60:005 Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (Subpart Kb), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (Subpart BB), Standards of Performance for Kraft Pulp Mills. 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. 401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, Table 1 (Subpart MM), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft,	401 KAR 59:015, New indirect heat exchangers.	EU-42, EU-59
(Subpart Db), Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. 401 KAR 60:005 Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (Subpart Kb), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (Subpart BB), Standards of Performance for Kraft Pulp Mills. 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(l), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. 401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, Table 1 (Subpart MM), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft,	401 KAR 59:050, New storage vessels for petroleum liquids.	EU-10, EU-47
Institutional Steam Generating Units. 401 KAR 60:005 Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (Subpart Kb), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (Subpart BB), Standards of Performance for Kraft Pulp Mills. 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.428, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. 401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, Table 1 (Subpart MM), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft,	401 KAR 60:005, Section 2(2)(c), 40 C.F.R. 60.40b through 60.49b	EU-27, EU-29, EU-42,
401 KAR 60:005 Section 2(2)(r), 40 C.F.R. 60.110b through 60.117b (Subpart Kb), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (Subpart BB), Standards of Performance for Kraft Pulp Mills. 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. 401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, Table 1 (Subpart MM), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft,	(Subpart Db), Standards of Performance for Industrial-Commercial-	EU-59
(Subpart Kb), Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (Subpart BB), Standards of Performance for Kraft Pulp Mills. 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. 401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, Table 1 (Subpart MM), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft,		
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Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (Subpart BB), Standards of Performance for Kraft Pulp Mills. 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. 401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, Table 1 (Subpart MM), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft,		
After July 23, 1984. 401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (Subpart BB), Standards of Performance for Kraft Pulp Mills. 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. 401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, EU-27, EU-28, EU-29, Table 1 (Subpart MM), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft,		
401 KAR 60:005 Section 2(2)(kk), 40 C.F.R. 60.280 through 60.285 (Subpart BB), Standards of Performance for Kraft Pulp Mills. EU-28, EU-29, EU-30, EU-36, EU-40 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. 401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, EU-27, EU-28, EU-29, Table 1 (Subpart MM), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft,	v	
(Subpart BB), Standards of Performance for Kraft Pulp Mills. 401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. EU-24, EU-27, EU-28, EU-29, EU-21, EU-22, EU-24, EU-40 EU-27, EU-28, EU-29, EU-30, EU-21, EU-22, EU-24, EU-40 EU-27, EU-28, EU-29, EU-29, EU-30,		
401 KAR 60:005 Section 2(2)(eeee), 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. 401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, EU-27, EU-28, EU-29, Table 1 (Subpart MM), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft,		
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60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. 401 KAR 63:002 Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. 401 KAR 63:002 Section 2(4)(cc), 40 C.F.R. 63.860 through 63.868, Table 1 (Subpart MM), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft,	401 WAD 60 005 G (1 2/2)/) 40 GED 60 4220 (1 1	
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401 KAR 63:002 Section 2(4)(1), 40 C.F.R. 63.440 through 63.459, Table 1 (Subpart S), National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry. EU-20, EU-21, EU-22, EU-24, EU-40 EU-24, EU-40 EU-27, EU-28, EU-29, Table 1 (Subpart MM), National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft,		
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Air Pollutants for Chemical Recovery Combustion Sources at Kraft,		
· ·		LO-30, LO-30
Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills	Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills.	

SECTION 4 – SOURCE INFORMATION AND REQUIREMENTS (CONTINUED)

Table B - Summary of Applicable Regulations (Continued):

Applicable Regulations	Emission Unit
401 KAR 63:002 Section 2(4)(hh), 40 C.F.R. 63.960 through 63.967	EU-14, EU-22
(Subpart RR), National Emission Standards for Individual Drain	
Systems. 401 KAP (2.002 G 2(4)(11) 40 GEP (2.2220 d	EII 40
401 KAR 63:002 Section 2(4)(kkk), 40 C.F.R. 63.2330 through	EU-48
63.2406, Tables 1 through 12 (Subpart EEEE), National Emission	
Standards for Hazardous Air Pollutants: Organic Liquids Distribution	
(Non-Gasoline).	A 50 02 A 50 02
401 KAR 63:002 Section 2(4)(eeee), 40 C.F.R. 63.6580 through	A58-02, A58-03,
63.6675, Tables 1a through 8, and Appendix A (Subpart ZZZZ),	A58-04, A58-05,
National Emission Standards for Hazardous Air Pollutants for	A58-06, A58-07,
Stationary Reciprocating Internal Combustion Engines.	A58-08, A58-09,
	A58-10, A58-11,
	A58-12
401 KAR 63:002 Section 2(4)(iiii), 40 C.F.R. 63.7480 through	EU-42, EU-59
63.7575, Tables 1 through 13 (Subpart DDDDD), National Emission	
Standards for Hazardous Air Pollutants for Major Sources: Industrial,	
Commercial, and Institutional Boilers and Process Heaters.	
401 KAR 63:010, Fugitive emissions.	EU-11, EU-12, EU-57
40 CFR 64, Compliance Assurance Monitoring.	EU-27, EU-28, EU-29,
	EU-30, EU-36, EU-40,
	EU-42

Table C - Summary of Precluded Regulations:

N/A

Table D - Summary of Non Applicable Regulations:

N/A

Air Toxic Analysis

N/A

Single Source Determination

N/A

SECTION 5 – PERMITTING HISTORY

Permit	Permit Type	Activity#	Complete Date	Issuance Date	Summary of Action	PSD/Syn Minor
V-04-012	Initial Title V	APE20040001	10/6/2003	6/2/2005	Initial Title V (not finalized)	PSD
V-04-012 R1	Sig Revision	APE20050002	7/15/2006	9/12/2007	Revisions to address comments on V- 04-012	PSD
V-04-012 R2	Admin. Amend	APE20080002	1/22/2009	2/6/2009	Revision to testing frequency	
V-04-012 R3	Minor Revision	APE20090001	3/2/2009	8/6/2009	Fuel Change for No. 3 & 4 Boilers	
V-04-012 R4	Minor Revision	APE20100002	2/19/2010	5/21/2010	Addition of portable log chipper	
V-04-012 R5	Sig Revision	APE20110001	11/2/2011	5/16/2012	Construction and operation of NG fired backup boiler & barge unloading terminal	PSD
V-12-036	Title V Renewal	APE20120001	7/11/2012	7/8/2013	Renewal	
V-12-036 R1	Minor Revision	APE20140002	8/25/2014	11/12/2014	Changes to barge unloading annual operating limit, removal of backup boiler from permit (not constructed)	
V-12-036 R2	Sig Revision	APE20150001	8/31/2015	4/22/2016	Reclassification of fire pump engines, changes to inspection schedule, update of monitoring data averaging for compliance, incorporation of RAP analysis	
	Title V Renewal	APE20170004			Renewal	
V-18-007	Sig Revision	APE20180003	3/23/2018	9/22/2018	Significant Revision for the addition of a backup natural gas-fired boiler	Synthetic Minor

Statement of Basis/Summary Permit: V-25-013

SECTION 6 – PERMIT APPLICATION HISTORY

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None

Statement of Basis/Summary

Permit: V-25-013

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APPENDIX A – ABBREVIATIONS AND ACRONYMS

Admin - Administrative ADP - Air Dried Pulp

- Best Available Control Technology BACT

BLS - Black liquor solids BPM - Bleached pulp mill - British thermal unit Btu

CAM - Compliance Assurance Monitoring

- Calcium oxide CaO CaCO₃ - Calcium carbonate CO Carbon Monoxide

Division – Kentucky Division for Air Quality

- dry standard cubic meter dscm - dry standard cubic foot dscf ESP - Electrostatic Precipitator

FPM - Fine paper mill – gallon per minute gpm GHG - Greenhouse Gas

HAP - Hazardous Air Pollutant

HCl - Hydrochloric acid

HF - Hydrogen Fluoride (Gaseous)

HVLC - high volume low concentration gases

- Kentucky Medium Mill **KMM**

LVHC - Low volume high concentration gases

Mg - Megagram

- Million standard cubic feet mmscf mmBtu – Million British thermal unit

NESHAP – National Emissions Standards for Hazardous Air Pollutants

NCG non-condensable gases

NG - Natural gas - Nitrogen Oxides NO_x Oven dried pulp ODP

PCC - Precipitated calcium carbonate

PM - Particulate Matter

 PM_{10} – Particulate Matter equal to or smaller than 10 micrometers - Particulate Matter equal to or smaller than 2.5 micrometers $PM_{2.5}$

- Parts per million ppm

ppmv – Parts per million by volume

– Parts per million by volume on a dry basis ppmvd PSD - Prevention of Significant Deterioration

PTE Potential to Emit SO_2 - Sulfur Dioxide SOG Stripper off-gases – Tons per year tpy

VOC Volatile Organic Compounds

Appendix B – Indirect Heat Exchanger Emissions Limitations

	Summary of	All Affected	l Facilities Us	sed to Detern	nine 401 KAF	R 59:015 Er	nission Limit	S		
EU	Fuel(s)	Capacity (mmBtu/hr)	Constructed	Basis for PM Limit	Total Heat Input Capacity for PM Limit (mmBtu/hr)	Basis for SO ₂ Limit	Total Heat Input Capacity for SO ₂ Limit (mmBtu/hr)	Notes		
46	Natural Gas	150	1969	Uni	Unit subject to 401 KAR 61:015					
07	Natural Gas Fuel Oil	400	1981	Uni	t subject to 40)1 KAR 61	:015	Removed		
06	Fuel Oil	180	1985	401 KAR 59:015, Section 4(1)(b)	250+	401 KAR 59:015, Section 5(1)(b)(1)	250+	2011		
27	BLS; NG; Fuel Oil	NA	1985							
42	Wood; NG; Fuel Oil;	570 Wood; 480 NG	5/1997					Exempt from Sections		
29	BLS; NG; Fuel Oil	NA	10/1997	Units subject to 40 CFR 60, Subpart Db. See 401 KAR 59:015, Section 2(2).						
59	Natural Gas	358.6	2018							