AIR QUALITY PERMIT
Issued under 401 KAR 52:020

Permittee Name: Kimberly-Clark Corporation, Owensboro Operations
Mailing Address: 601 Innovative Way, Owensboro, Kentucky 42301

Source Name: Kimberly-Clark Corporation, Owensboro Operations
Mailing Address: 601 Innovative Way
Owensboro, Kentucky 42301

Source Location: Same as Above
Permit: V-21-002 R1
Agency Interest: 917
Activity: APE20220001
Review Type: Title V, Construction / Operating
Source ID: 21-059-00169
Regional Office: Owensboro Regional Office
3032 Alvey Park Dr. W., Suite 700
Owensboro, KY 42303
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County: Daviess
Application Complete Date: October 23, 2020
Issuance Date: May 23, 2021
Revision Date: 
Expiration Date: May 23, 2026

For Michael J. Kennedy, P.E.
Director
Division for Air Quality

Version 4/1/2022
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<td>APE20220001</td>
<td>4/27/2022</td>
<td></td>
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SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Energy and Environment Cabinet (Cabinet) hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes (KRS) Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first submitting a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Cabinet or any other federal, state, or local agency.
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

EU-12 / SN-37  Hydronic Boiler #1

Description:  Rated Capacity:  9.0 MMBtu/hour  
               Fuel Type:  Natural Gas fuel only  
               Installation Date:  April 1993

EU-12 / SN-38  Hydronic Boiler #2

Description:  Rated Capacity:  9.0 MMBtu/hour  
               Fuel Type:  Natural Gas fuel only  
               Installation Date:  April 1993

APPLICABLE REGULATIONS:
401 KAR 59:015, New indirect heat exchangers

1. Operating Limitations:
   Only natural gas shall be used as fuel.

2. Emission Limitations:
   a. The opacity of visible emission shall not exceed twenty (20) percent [401 KAR 59:015, Section 4 (2)].

   b. An affected facility shall not cause emissions of particulate matter (PM) in excess of 0.48 lb/ MMBtu  [401 KAR 59:015, 4(1)(c)].

   \[
   \text{PM allowable emission rate} = 0.9634 \times P^{0.2356}, \text{ where } P= 18.0 \text{ MMBtu/hr, Total rated heat input capacity of all affected facilities at the source}
   \]

   c. The emission of Sulfur Dioxide shall not exceed 2.35 lb/ MMBtu [401 KAR 59:015, 5(1)(c)2].

   \[
   \text{Sulfur Dioxide allowable emission rate} = 7.7223 \times P^{0.4106}, \text{ where } P= 18.0 \text{ MMBtu/hr, Total rated heat input capacity of all affected facilities at the source}
   \]

   Compliance Demonstration Method:
   The units are assumed to be in compliance with PM, SO2 and opacity standards while burning natural gas.

3. Testing Requirements:
   Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 1].
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

4. **Specific Monitoring Requirements:**
   The permittee shall monitor and maintain records of the monthly amount of natural gas usage in the affected facilities (cubic feet/month).

5. **Specific Recordkeeping Requirements:**
   See the Specific Monitoring Requirements above.

6. **Specific Reporting Requirements:**
   See Section F for General Reporting Requirements.
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

P1 / SN-36  Boiler #1

Description: Boiler #1 is rated at 99.3 MMBtu/hr and is fired by natural gas only. This boiler generates 265 psig steam power for this facility’s manufacturing processes.

- Rated Capacity: 99.3 MMBtu/hour
- Fuel Type: Natural Gas with low NOx
- Installation Date: March 1994

APPLICABLE REGULATIONS:

401 KAR 59:015, New indirect heat exchangers

401 KAR 60:005, Section 2(2)(d) 40 C.F.R. 60.40c to 60.48c (Subpart Dc), Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

1. Operating Limitations:
   Only natural gas shall be used as fuel.

2. Emission Limitations:
   a. The opacity of visible emission shall not exceed twenty (20) percent [401 KAR 59:015, Section 4 (2)].
   
   \[ PM \text{ allowable emission rate} = 0.9634 \times P^{0.2356} \text{, where } P = 18.0 + 99.3 = 117.3 \text{ MMBtu/hr}, \]
   \[ \text{Total rated heat input capacity of all affected facilities at the source} \]

   b. An affected facility shall not cause emissions of particulate matter (PM) in excess of 0.31 lb/ MMBtu [401 KAR 59:015, Section 3 (1) & 4(1)(c)].

   \[ PM \text{ allowable emission rate} = 0.9634 \times P^{0.2356} \text{, where } P = 18.0 + 99.3 = 117.3 \text{ MMBtu/hr}, \]
   \[ \text{Total rated heat input capacity of all affected facilities at the source} \]

   c. The emission of Sulfur Dioxide shall not exceed 1.09 lb/ MMBtu [401 KAR 59:015, Section 3 (1) & 5(1)(c)].

   \[ Sulfur \text{ Dioxide allowable emission rate} = 7.7223 \times P^{0.4106} \text{, where } P = 117.3 \text{ MMBtu/hr}, \]
   \[ \text{Total rated heat input capacity of all affected facilities at the source} \]

Compliance Demonstration Method:
The unit is assumed to be in compliance with PM, SO\textsubscript{2} and opacity standards while burning natural gas.

3. Testing Requirements:
   Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 1].
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

4. **Specific Monitoring Requirements:**
   See 5. **Specific Recordkeeping Requirements.**

5. **Specific Recordkeeping Requirements:**
   The permittee shall record and maintain records of the fuel combusted (cubic feet/month) in the affected facility during each calendar month [40 CFR 60.48c (g)(2)].

6. **Specific Reporting Requirements:**
   See Section F for General Reporting Requirements.
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Tissue Paper Machine No. 1 (TM1) Line

TM1, A Light Dry Crepe Paper Machine

**Description:**
- Process rate: 8.54 Pulp Stock Tons/hr
- Installation Date: March 1995

EU-01/SN-4 (001A)
One Drum (Yankee) Tissue Dryer (Hauk BBG 1112X, 12” Beta)
with two Burners #1 & #2

**Description:**
- Process rate: 8.54 Tons/hr
- Burners Rated Capacity: 20.0 MMBtu/hr, each
- Fuel Type: Natural Gas burners only
- Installation Date: March 1995

Control Equipment:
EU-01/SN-28 (001B)
Kleissler Venturi Scrubber Control Equipment for Creping and Winding Process with Housekeeping Vacuum System

**Description:**
- Control Efficiency: 99.2%, Based on PM Emissions Test Performed on May 4, 2017
- Installation Date: March 1995

EU-01/SN-29 (001C)
Valmet Vortex Scrubbing System for Supplemental Control of Nuisance Dust Around Tissue Machine

**Description:**
- Control Efficiency: None Assumed
- Installation Date: November 2016

**APPLICABLE REGULATIONS:**
401 KAR 59:010, *New Process Operations*

1. **Operating Limitations:**
   a. Yankee Dryer shall only burn natural gas.
   b. The Venturi Scrubber (SN-28) shall be operated according to the manufacturer's specifications and recommendations at all times Tissue Machine #1 is operating.

2. **Emission Limitations:**
   Applicable to Stacks # SN-28 and SN-29
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

a. The opacity of visible emission shall not equal or exceed 20% [401 KAR 59:010, Section 3(1)(a)].

**Compliance Demonstration Method:**
See subsection 4. Monitoring Requirements for opacity compliance demonstration.

b. The emission of particulate matter from both stacks (SN-28 & SN-29) of the Tissue Machine No.1 process shall not exceed [401 KAR 59:010, Section 3(2)]:

<table>
<thead>
<tr>
<th>EMISSION POINT</th>
<th>AFFECTED FACILITY</th>
<th>PROCESSING RATE</th>
<th>MAXIMUM ALLOWABLE EMISSION RATE (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU-01/SN-28 &amp; EU-01/SN-29</td>
<td>TM1</td>
<td>( \leq 0.500 \text{ ton/hr} )</td>
<td>2.34</td>
</tr>
<tr>
<td></td>
<td></td>
<td>( 0.500 &lt; P &lt; 8.54 \text{ tons/hr} )</td>
<td>( E = 3.59(P^{0.62}) )</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8.54 tons/hr</td>
<td>13.57</td>
</tr>
</tbody>
</table>

Emission of particulate matter from a control device or stack of any affected facility up to a process rate of 1000 lbs/hr shall not exceed 2.34 lbs/hr. For processing rates greater than 1000 lbs/hr up to 60,000 lbs/hr, particulate emissions shall not exceed the emission rate calculated by the following equation:

\[
E = 3.59(P^{0.62})
\]

\( E \) = the PM emissions rate (pounds/hour)
\( P \) = the process rate (tons/hour)

**Compliance Demonstration Method:**
The affected facility is assumed to be in compliance when the Venturi Scrubber is operating and properly maintained in accordance with the manufacturer’s specifications.

3. **Testing Requirements:**
The permittee shall test the inlet feed to the Venturi Scrubber (SN-28) to determine the particulate matter (PM) loading to the scrubber every five years using Reference Method 5 specified in Regulation 401 KAR 50:015, documents incorporated by reference, or other method approved in the Compliance Test Protocol. The purpose of this test is to determine the continued non-applicability of 40 CFR Part 64 Compliance Assurance Monitoring. For this purpose, the inlet scrubber feed shall not exceed a load of 2.64 lb. PM/ton tissue paper processed.
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

4. Specific Monitoring Requirements:
   a. The permittee shall perform a qualitative visual observation of the opacity of emissions at each stack no less than weekly while the affected facility is operating. If visible emissions from the stacks are observed (not including condensed water in the plume), the permittee shall determine the opacity using Reference Method 9. In lieu of determining the opacity using U.S. EPA Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume).

   b. The permittee shall monitor the Venturi Scrubber (SN-28) liquid flow rate (3-hr average) and differential pressure (3-hr average) readings once a day.

   c. The permittee shall calibrate, maintain, and operate instruments and devices used to monitor the Venturi scrubber’s differential pressure and liquid flow rate, using procedures that take into account the manufacturer’s recommendations.

   d. The permittee shall maintain the liquid flow rate to the Venturi Scrubber (SN-28) within the range recommended by the manufacturer.

5. Specific Recordkeeping Requirements:
   a. The permittee shall maintain a log of the visual observations noting date, time and initials of observers, records of corrective actions taken as a result of visible emissions from a stack and records of any Reference Method 9 readings performed.

   b. The permittee shall maintain a log of the Venturi Scrubber (SN-28) liquid flow rate (3-hr average) and differential pressure (3-hr average) readings once a day.

   c. The permittee shall maintain a record of the tons of paper produced by the tissue machine on a monthly basis.

   d. The permittee shall maintain records of calibrations of the Venturi scrubber’s differential pressure and liquid flow rate measuring instruments and devices.

   e. The permittee shall maintain a record of the manufacturer’s specifications and operational procedures for the SN-28 Venturi Scrubber.

   f. The permittee shall keep records of preventive/routine maintenance and any repairs made to the Venturi Scrubber equipment.

6. Specific Reporting Requirements:
   See Section F(5) and F(6).

7. Specific Control Equipment Operating Conditions:
   None
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

TM2  

Tissue Towel Paper Machine No. 2 Line

EU-02/SN-1 & SN-3 (002A)  
Air Dryer#1 and Air Dryer#2

Description:
Burner#1 Rated Capacity: 70 MMBtu/hr
Burner#2 Rated Capacity: 47 MMBtu/hr
Fuel Type: Natural Gas
Process Rate for both dryers: 17.79 metric tons /hr (19.61 ton/hr)
Installation Date: January 1997

EU-02 (002B) Tissue Towel Paper Machine #2

Description: Process Rate: 17.79 metric tons /hr (19.61 ton/hr)

APPLICABLE REGULATIONS:
401 KAR 59:010, New Process Operations

1. **Operating Limitations:**
   Air Dryer #1 and #2 shall only burn natural gas.

2. **Emission Limitations:**
   a. The opacity of visible emission shall not equal or exceed 20% [401 KAR 59:010, Section 3(1)(a)].

   **Compliance Demonstration Method:**
   See subsection 4. Monitoring Requirements for opacity compliance demonstration.

   b. The emission of particulate matter from the paper drying process shall not exceed 22.7 lb/hr [401 KAR 59:010, Section 3(2)].

<table>
<thead>
<tr>
<th>EMISSION UNIT/POINT</th>
<th>AFFECTED FACILITY</th>
<th>PROCESSING RATE (ton/hr)</th>
<th>MAXIMUM ALLOWABLE EMISSION RATE (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU02/002B</td>
<td>Tissue Towel Paper Machine No. 2</td>
<td>≤0.500</td>
<td>2.34</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.500&lt;P&lt;19.61</td>
<td>E = 3.59(P)^0.62</td>
</tr>
<tr>
<td></td>
<td></td>
<td>19.61</td>
<td>22.7</td>
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</tbody>
</table>
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission of particulate matter from a control device or stack of any affected facility up to a process rate of 1000 lbs/hr shall not exceed 2.34 lbs/hr. For processing rates greater than 1,000 lbs/hr up to 60,000 lbs/hr, particulate emissions shall not exceed the emission rate calculated by the following equation:

\[ E = 3.59P^{0.62} \]

- \( E \) = the PM emissions rate (pounds/hour)
- \( P \) = the sheet process rate (tons/hour)

**Compliance Demonstration Method:**
The source is assumed to be in compliance with the mass standard based on the rates of particulate emissions calculated from the information provided in the application submitted by the source.

3. **Testing Requirements:**
   Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 1].

4. **Specific Monitoring Requirements:**
The permittee shall perform a qualitative visual observation of the opacity of emissions at each stack no less than weekly while the affected facility is operating. If visible emissions from the stacks are observed (not including condensed water in the plume), the permittee shall determine the opacity using Reference Method 9. In lieu of determining the opacity using U.S. EPA Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume).

5. **Specific Recordkeeping Requirements:**
a. The permittee shall maintain a log of the visual observations noting date, time and initials of observers, records of corrective actions taken as a result of visible emissions from a stack and records of any Reference Method 9 readings performed.

   b. The permittee shall maintain a record of the tons of paper produced by the tissue machine on a monthly basis.

6. **Specific Reporting Requirements:**
   See Section F(5) and F(6).
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

EU-03/ SN-42  10 Converting Lines

**Description:** Reduces the size of large paper rolls to consumer use sizes and perforates them. One line (the MBFF line) is for imported rolls.

*Installation Date: March 1993*

**Control equipment:**
- Osprey Dust Removal System and four rotary drum filters (for 9 lines), 99.5% PM Capture Efficiency
- Osprey Blue Sky Filter (MBFF Line)
- RF Venturi Scrubber SN-42 (All Lines), 98.1% PM Control Efficiency
- TM1 Venturi Scrubber SN-28 (MBFF backup)

**APPLICABLE REGULATIONS:**

401 KAR 59:010, *New Process Operations*

1. **Operating Limitations:**
   - The Osprey Dust Removal System, MBFF dust removal system, and RF Venturi Scrubber shall control particulate emissions and be operated and maintained according to the manufacturer's specifications or standard operating procedures.

2. **Emission Limitations:**
   a. The following emission limitations for particulate matter are pursuant to 401 KAR 59:010, Section 3 (2):

   Emission of particulate matter from a control device or stack of any affected facility up to a process rate of 1000 lbs/hr shall not exceed 2.34 lbs/hr. For processing rates greater than 1000 lbs/hr up to 60,000 lbs/hr, particulate emissions shall not exceed the emission rate calculated by the following equation:

   \[ E = 3.59(P)^{0.62} \]

   \( E \) = the PM emissions rate (pounds/hour)
   \( P \) = the process rate (tons/hour)

   For processing rates greater than 60,000 lbs/hr, particulate emissions shall not exceed the emission rate calculated by the following equation:

   \[ E = 17.31(P)^{0.16} \]

   \( E \) = the PM emissions rate (pounds/hour)
   \( P \) = the process rate (tons/hour)
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

**Compliance Demonstration Method:**
The converting lines are considered to be in compliance with particulate emission limit as long as:

1. The dust from converting lines is transferred to the RF Venturi Scrubber by the Osprey Dust System & MBFF line’s Dust Removal System.
2. The Osprey Dust System, MBFF line’s Dust Removal System and the RF Scrubber are operated and maintained according to the manufacturer’s specifications and recommendations.

b. The opacity of visible emission shall not equal or exceed 20% [401 KAR 59:010, Section 3(1)(a)].

**Compliance Demonstration Method:**
See subsection 4. Monitoring Requirements for opacity compliance demonstration.

3. **Testing Requirements:**
Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 1].

4. **Specific Monitoring Requirements:**
   a. The permittee shall monitor and maintain records of the following information:
      1. The monthly raw material throughput rates of tissue machine #1, tissue machine #2, paper machine #3, and the monthly quantity of imported roll tons processed through the Converting Lines.
      2. The 3-hr average RF Venturi scrubber flow rate and pressure drop once a day.
   
   b. The permittee shall perform a qualitative visual observation of the opacity of emissions at each stack no less than weekly while the affected facility is operating. If visible emissions from the stacks are observed (not including condensed water in the plume), the permittee shall determine the opacity using Reference Method 9. In lieu of determining the opacity using U.S. EPA Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume).

   c. The permittee shall calibrate, maintain, and operate instruments and devices used to monitor the scrubber differential pressure and liquid flow rate, using procedures that take into account the manufacturer’s recommendations.

   d. The permittee shall maintain the liquid flow rate to the scrubber within the range recommended by the manufacturer.
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE
REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. **Specific Recordkeeping Requirements:**
   a. The permittee shall maintain a log of the visual observations noting date, time and initials
      of observers, records of corrective actions taken as a result of visible emissions from a
      stack and records of any Reference Method 9 readings performed.

   b. The permittee shall maintain a log of the RF Venturi scrubber liquid flow rate (3-hr
      average) and differential pressure (3-hr average) readings once a day.

   c. The permittee shall maintain a record of the tons of tissue paper processed on a monthly
      basis.

   d. The permittee shall maintain records of the calibrations of scrubber differential pressure
      and liquid flow rate measuring instruments and devices.

   e. The permittee shall maintain a record of the design and manufacturer’s specifications and
      operational procedures for the RF Venturi Scrubber, Osprey Dust Removal System, and
      MBFF Dust Removal System.

   f. The permittee shall keep records of preventive/routine maintenance and any repairs made
      to the equipment.

6. **Specific Reporting Requirements:**
   See Section F(5) and F(6).

7. **Specific Control Equipment Operating Conditions:**
   None
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

EG#1  Emergency Generator #1, Diesel Fired Emergency Compression Ignition (CI) Reciprocating Internal Combustion Engines (RICE)
       Rated Capacity: 180 KW (241 HP)

EG#2  Emergency Generator #2, Diesel Fired Emergency Compression Ignition (CI) Reciprocating Internal Combustion Engines (RICE)
       Rated Capacity: 250 KW (335 HP)

EG#3  Emergency Generator #3, Diesel Fired Emergency Compression Ignition (CI) Reciprocating Internal Combustion Engines (RICE)
       Rated Capacity: 150 KW (201 HP)

FP#1  Fire Pump#1, Model: JV-14 MCS, Detroit Diesel Engine
       Rated Capacity: 300 HP

FP#2  Fire Pump#2, Model: JV-14 MCS, Detroit Diesel Engine
       Rated Capacity: 300 HP

Description: Three (3) diesel-fired emergency generators and two (2) diesel-fired fire pumps. The rated capacity of each unit is less than 500 HP. The units were installed from 1993 to 2003.

Date Installed: prior to 2004

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

1. Operating Limitations:
   a. The permittee shall [40 CFR 63.6603(a) & Table 2d]:
      (1) Change oil and filter every 500 hours of operation or annually, whichever comes first;
      (2) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;
      (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
b. The permittee must be in compliance with the applicable emission and operating limitations in 40 CFR 63, Subpart ZZZZ at all times [40 CFR 63.6605(a)].

c. At all times, the permittee must operate and maintain the affected source in a manner consistent with good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source [40 CFR 63.6605(b)].

d. The permittee must either operate and maintain the engines according to the manufacturer’s emission-related operating and maintenance instructions, or develop and follow their own maintenance plan which must provide, to the extent practicable, for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions [40 CFR 63.6640(a), 40 CFR 63.6625(e)(3)].

e. The permittee must operate the engine as follows:
   (1) There is no limit on the use of emergency RICE in emergency situations [40 CFR 63.6640(f)(1)].
   (2) The permittee may operate the emergency stationary RICE for the purpose specified in paragraphs 63.6640(f)(2)(i) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs 63.6640(f)(4) counts as part of the 100 hours per calendar year allowed by this paragraph 63.6640(f)(2) [40 CFR 63.6640(f)(2)].

f. The permittee must minimize the engines' time spent at idle during startup and minimize the engines' startup time to a period needed for appropriate and safe loading of the engines, not to exceed thirty (30) minutes, after which time the emission standards applicable to all times other than startup in Table 1a, 2a, 2c, and 2d to 40 CFR 63, Subpart ZZZZ apply [40 CFR 63.6625(h)].

2. **Emission Limitations:**
   The permittee must be in compliance with the applicable emission and operating limitations in 40 CFR 63, Subpart ZZZZ at all times [40 CFR 63.6605(a)].

3. **Testing Requirements:**
   Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 1].

4. **Specific Monitoring Requirements:**
   To meet the monitoring requirements, the permittee shall install a non-resettable hour meter if one is not already installed [40 CFR 63.6625(f)].
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. **Specific Recordkeeping Requirements:**
   
a. The permittee shall maintain records in a form suitable and readily available for expeditious review as specified in 40 CFR 63.10(b)(1). The permittee shall keep each record in hard copy or electronic form for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record [40 CFR 63.10(b)(1), 40 CFR 63.6660].

b. The permittee must keep a copy of each notification and report that is submitted, including all documentation supporting any Initial Notification or Notification of Compliance Status that is submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv), records of the occurrence and duration of each malfunction of operation (i.e., process equipment) and monitoring equipment, records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii), records of all required maintenance performed on the monitoring equipment, and records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b), including corrective actions to restore malfunctioning process and monitoring equipment to its normal or usual manner of operation [40 CFR 63.6655(a)(1) through (a)(5)].

c. The permittee shall maintain records of the maintenance conducted on the stationary RICE in order to demonstrate that the engine was operated and maintained, according to the maintenance plan for the engine [40 CFR 63.6655(e)].

d. If an engine is not certified to the standards applicable to non-emergency engines (see Table 2d to 40 CFR 63 Subpart ZZZZ), then the permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee must document how many hours are spent for emergency operation; including, what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for demand respond, records must be kept of the notification of the emergency situation, and the time the engine was operated as part of demand response [40 CFR 63.6655(f)(2)].

e. The permittee shall maintain a record of fuel use in each engine on a monthly basis either through direct measurement of fuel added or estimated based on engine run time and hourly fuel consumption rates

6. **Specific Reporting Requirements:**
   The permittee must report each instance in which an applicable operating limitation in Table 2d of 40 CFR 63, Subpart ZZZZ, was not met. These deviations must be reported according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b)]
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

RM Raw Materials

Description:
Raw materials and process chemicals are utilized throughout the facility. The VOC emissions from total raw materials and process chemicals consumption are uncontrolled.

Construction Date: April 1993

APPLICABLE REGULATIONS:
401 KAR 63:020, Potentially hazardous matter or toxic substances

401 KAR 50:012, General application

1. Operating Limitations:
The permittee shall store raw materials in closed containers, and use piping or closed vessels when transferring raw materials for mixing and use.

2. Emission Limitations:
401 KAR 63:020
Based upon the emission rates of toxics and hazardous air pollutants determined by the Cabinet using information provided in the application and supplemental information submitted by the source, the Cabinet determines the affected facility to be in compliance with 401 KAR 63:020.

401 KAR 50:012, General application, Section 1. (2)
In the absence of a standard specified in the administrative regulations 401 KAR Chapters 50 to 65; all major air contaminant sources shall as a minimum apply control procedures that reasonable, available, and practical.

Compliance Demonstration Method:

3. Testing Requirements:
No testing requirements are applicable if storage of raw materials is in closed containers, and piping or closed vessels are used when raw materials are transferred for mixing and use. Otherwise, raw material emission rates shall be determined by methods approved by the Division.

4. Specific Monitoring Requirements:
Observe whether or not best management practices are utilized when mixing and storing raw materials at least once a week.
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. **Specific Recordkeeping Requirements:**
   a. Record all monitoring observations related to best management practices (for example: caps were used on all mixing operations observed, raw materials were observed to be in closed containers, and piping was used to minimize emissions where possible). Include, at a minimum, date and time of the observations, if all known VOC containers were closed, and other activities performed to minimize off-line VOC evaporative losses.

   b. The permittee shall maintain a record of the tons of raw materials used on a monthly basis.

6. **Specific Reporting Requirements:**
   a. Report semiannually whether or not monitoring always confirmed the utilization of best management practices.

   b. See Section F(5) and F(6).
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

HRT#1 Hard Rolled Towels Flexographic Printing Press #1

Description:
Flexographic printing press that is a part of the 10 converting lines
Construction Date: February, 2020
Control Equipment: None

HRT#2 Hard Rolled Towels Flexographic Printing Press #2

Description:
Flexographic printing press that is a part of the 10 converting lines
Construction Date: February, 2020
Control Equipment: None

APPLICABLE REGULATIONS:
401 KAR 59:212, New graphic arts facilities using rotogravure and flexography

1. Operating Limitations:
   In order to be exempt from Section 3 of 401 KAR 59:212, the permittee shall only utilize
   waterborne ink whose volatile portion consists of seventy-five (75) volume percent water and
   twenty-five (25) volume percent organic solvent (or a lower volatile organic compound (VOC)
   content) in the printing units [401 KAR 59:212 Section 6(1)].

   Compliance Demonstration Method:
   See Subsection 6. Specific Reporting Requirements b.

2. Emission Limitations:
   None

3. Testing Requirements:
   If the Division requires testing, the owner or operator shall use Reference Method 24A, or
   other methods approved by the Division, to verify that the inks used at the affected facility
   meet the exemption requirements in 401 KAR 59:212 Section 6 [401 KAR 59:212, Section
   4(4)].

4. Specific Monitoring Requirements:
   a. The permittee shall monitor the amounts and types of graphic arts material or solvent used
      at each point of application, including exempt compounds.
   
   b. The permittee shall monitor the VOC content as applied in each graphic arts material or
      solvent.
   
   c. The permittee shall monitor the amount of surface preparation, cleanup, or washup solvent
      (including exempt compounds) used and the VOC content of each.
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE
REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. **Specific Recordkeeping Requirements:**
   a. The permittee shall maintain daily records for the most recent 2-year period. These records shall be made available to the Cabinet or the U.S. EPA upon request. These records shall include, but not be limited to, the following [401 KAR 59:212 Section 4(6)]:
      (1) Applicable administrative regulation number;
      (2) Application method and substrate type;
      (3) Amount and type of graphic arts material or solvent used at each point of application, including exempt compounds;
      (4) The VOC content as applied in each graphic arts material or solvent;
      (5) The date for each application for graphic arts material or solvent; and
      (6) The amount of surface preparation, cleanup, or washup solvent (including exempt compounds) used and the VOC content of each.

6. **Specific Reporting Requirements:**
   The semiannual report required by Section F shall contain the following:
   a. The monthly pounds of graphic arts materials (inks) and solvents used during the reporting period.
   b. The VOC and water content, as applied, for each graphic arts material and solvent used during the reporting period. This includes both volume and weight percent of the VOC and the volume percent of water.
   c. The monthly pounds of surface preparation, cleanup or washup solvent used during the reporting period and VOC content (weight percent) of each.

7. **Specific Control Equipment Operating Conditions:**
   None
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

EU-04 Combined Heat and Power System – Combustion Turbine / HRSG / Duct Burner

Description:
Combined Heat and Power System Operations (one Simple Cycle Combustion Turbine with a Heat Recovery Steam Generator (HRSG) connected with one steam generator, supplemented by a Duct Burner):

Maximum Rated Capacity: Combustion Turbine, 185 MMBtu/hr (HHV), 14.5 MW
Duct Burner for HRSG, 30 MMBtu/hr (HHV)
Fuel Type: Natural Gas
Construction Date: October 2020

APPLICABLE REGULATIONS:
401 KAR 60:005, Section 2(2)(fff), 40 C.F.R. 60.4300 to 60.4420, Table 1 (Subpart KKKK), Standards of Performance for Stationary Combustion Turbines

ADDITIONAL REQUIREMENT SPECIFICALLY FOR HRSG:
401 KAR 59:015, New indirect heat exchangers

1. Operating Limitations:
   a. The permittee shall operate and maintain the stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction [40 CFR 60.4333(a)].

   Compliance Demonstration Method:
   See Subsection 5. Specific Recordkeeping Requirements.

2. Emission Limitations:
   a. If the permittee’s turbine is located in a continental area, the permittee shall comply with either paragraph (a)(1), (a)(2), or (a)(3) of 40 CFR 60.4330 [40 CFR 60.4330(a)].
      (1) The permittee shall not combust in the Combustion Turbine any fuel that contains total potential sulfur emissions that exceed 26 nanograms per Joule (ng/J) (0.060 lbs/MMBtu) of SO₂ [40 CFR 60.4330(a)(2)].

      Compliance Demonstration Method:
      See Subsection 4. Specific Monitoring Requirements.

   b. The permittee shall meet the emission limits for NOₓ specified in Table 1 to 40 CFR 60 Subpart KKKK [40 CFR 60.4320(a)].
      (1) The exhaust from the CHP Turbine System when operating at steady state with supplemental heat from the Duct Burner shall not contain NOₓ emissions that exceed 25 ppm at 15 percent O₂ or 150 ng/J of useful output (1.2 lb/MWh) [40 CFR 60 Subpart KKKK table 1].
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Compliance Demonstration Method:
See Subsection 3. **Testing Requirements.**

**Duct Burner Only Requirement:**
c. The opacity of visible emission shall not exceed twenty (20) percent [401 KAR 59:015, Section 4 (2)].

d. An affected facility shall not cause emissions of particulate matter (PM) in excess of 0.30 lb/ MMBtu [401 KAR 59:015, Section 3 (1) & 4(1)(c)].

\[
PM\text{ allowable emission rate} = 0.9634 \times P^{-0.2356}, \text{ where } P = 18.0 + 99.3 + 30.0 = 147.3 \text{ MMBtu/hr, Total rated heat input capacity of all affected facilities at the source}
\]

e. The emission of Sulfur Dioxide shall not exceed 1.0 lb/ MMBtu [401 KAR 59:015, Section 3 (1) & 5(1)(c)2.]

\[
Sulfur\text{ Dioxide allowable emission rate} = 7.7223 \times P^{-0.4106}, \text{ where } P = 18.0 + 99.3 + 30.0 = 147.3 \text{ MMBtu/hr, Total rated heat input capacity of all affected facilities at the source}
\]

Compliance Demonstration Method:
The Duct Burner is considered to be in compliance with PM, SO\textsubscript{2} and opacity standards while burning natural gas.

3. **Testing Requirements:**
a. If the permittee is not using water or steam injection to control NO\textsubscript{X} emissions, the permittee shall perform annual performance tests in accordance with 40 CFR 60.4400 to demonstrate continuous compliance. If the NO\textsubscript{X} emission result from the performance test is less than or equal to 75 percent of the NO\textsubscript{X} emission limit for the turbine, the permittee may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NO\textsubscript{X} emission limit for the turbine, the permittee shall resume annual performance tests. [40 CFR 60.4340(a)]

b. The permittee shall conduct an initial performance test for NO\textsubscript{x}, as required in 40 CFR 60.8. Subsequent NO\textsubscript{x} performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test), except as provided in Subsection 3. **Testing Requirements** paragraph a. [40 CFR 60.4400(a)].

(1) The permittee shall measure the NO\textsubscript{x} concentration in parts per million (ppm), using EPA Method 7E or EPA Method 20 in appendix A of 40 CFR 60. For units complying with the output based standard, concurrently measure the stack gas flow rate, using EPA Methods 1 and 2 in appendix A of this part, and measure and record the electrical and thermal output from the unit. Then, use the following equation to calculate the NO\textsubscript{x} emission rate [40 CFR 60.4400(a)(1)(i)]:

- **Testing Requirements:**
- **Duct Burner Only Requirement:**
- **Compliance Demonstration Method:**
- **PM allowable emission rate = 0.9634 x P^{-0.2356}, where P = 18.0 + 99.3 + 30.0 = 147.3 MMBtu/hr, Total rated heat input capacity of all affected facilities at the source**
- **Sulfur Dioxide allowable emission rate = 7.7223 x P^{-0.4106}, where P = 18.0 + 99.3 + 30.0 = 147.3 MMBtu/hr, Total rated heat input capacity of all affected facilities at the source**
- **Compliance Demonstration Method:**
- **The Duct Burner is considered to be in compliance with PM, SO\textsubscript{2} and opacity standards while burning natural gas.**
- **Testing Requirements:**
- **a. If the permittee is not using water or steam injection to control NO\textsubscript{X} emissions, the permittee shall perform annual performance tests in accordance with 40 CFR 60.4400 to demonstrate continuous compliance. If the NO\textsubscript{X} emission result from the performance test is less than or equal to 75 percent of the NO\textsubscript{X} emission limit for the turbine, the permittee may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NO\textsubscript{X} emission limit for the turbine, the permittee shall resume annual performance tests. [40 CFR 60.4340(a)]**
- **b. The permittee shall conduct an initial performance test for NO\textsubscript{x}, as required in 40 CFR 60.8. Subsequent NO\textsubscript{x} performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test), except as provided in Subsection 3. **Testing Requirements** paragraph a. [40 CFR 60.4400(a)].**
- **(1) The permittee shall measure the NO\textsubscript{x} concentration in parts per million (ppm), using EPA Method 7E or EPA Method 20 in appendix A of 40 CFR 60. For units complying with the output based standard, concurrently measure the stack gas flow rate, using EPA Methods 1 and 2 in appendix A of this part, and measure and record the electrical and thermal output from the unit. Then, use the following equation to calculate the NO\textsubscript{x} emission rate [40 CFR 60.4400(a)(1)(i)]:**
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

\[ E = \frac{1.194 \times 10^{-7} \times (NO_x)_c \times Q_{std}}{P} \]

Where:
- \( E \) = NOX emission rate, in lb/MWh
- \( 1.194 \times 10^{-7} \) = conversion constant, in lb/dscf-ppm
- \((NO_x)_c\) = average NOx concentration for the run, in ppm
- \( Q_{std} \) = stack gas volumetric flow rate, in dscf/hr
- \( P \) = gross electrical and mechanical energy output of the combustion turbine, in MW (for simple-cycle operation)

(2) Sampling traverse points for NOX and (if applicable) diluent gas are to be selected following EPA Method 20 or EPA Method 1 (non-particulate procedures), and sampled for equal time intervals. The sampling must be performed with a traversing single-hole probe, or, if feasible, with a stationary multi-hole probe that samples each of the points sequentially. Alternatively, a multi-hole probe designed and documented to sample equal volumes from each hole may be used to sample simultaneously at the required points [40 CFR 60.4400(a)(2)].

(3) Notwithstanding paragraph (a)(2) of 40 CFR 60.4400, the permittee may test at fewer points than are specified in EPA Method 1 or EPA Method 20 in appendix A of 40 CFR part 6- if the following conditions are met:
   i. The permittee may perform a stratification test for NOX and diluent pursuant to the procedures specified in section 6.5.6.1(a) through (e) of appendix A of part 75 of chapter 40. [40 CFR 60.4400(a)(3)(i)(B)].
   ii. Once the stratification sampling is completed, the permittee may use the following alternative sample point selection criteria for the performance test:
      A. If each of the individual traverse point NOX concentrations is within ±10 percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than ±5 ppm or ±0.5 percent CO2 (or O2) from the mean for all traverse points, then the permittee may use three points (located either 16.7, 50.0, and 83.3 percent of the way across the stack or duct, or, for circular stacks or ducts greater than 2.4 meters (7.8 feet) in diameter, at 0.4, 1.2, and 2.0 meters from the wall). The three points must be located along the measurement line that exhibited the highest average NOX concentration during the stratification test [40 CFR 60.4400(a)(3)(ii)(A)].
      B. For turbines with a NOX standard greater than 15 ppm @ 15% O2, the permittee may sample at a single point, located at least 1 meter from the stack wall or at the stack centroid if each of the individual traverse point NOX concentrations is within ±5 percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than ±3 ppm or ±0.3 percent CO2 (or O2) from the mean for all traverse points [40 CFR 60.4400(a)(3)(ii)(B)].
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

c. The performance test must be done at a load condition within plus or minus 25 percent of 100 percent of peak load. The permittee may perform testing at the highest achievable load point, if at least 75 percent of peak load cannot be achieved in practice. The permittee shall conduct three separate test runs for each performance test. The minimum time per run is 20 minutes [40 CFR 60.4400(b)].

(1) Compliance with the applicable emission limit in 40 CFR 60.4320 must be demonstrated at each tested load level. Compliance is achieved if the three-run arithmetic average NOx emission rate at each tested level meets the applicable emission limit in 40 CFR 60.4320 [40 CFR 60.4400(b)(4)].

(2) The ambient temperature must be greater than 0 °F during the performance test [40 CFR 60.4400(b)(6)].

4. Specific Monitoring Requirements:

a. The permittee must monitor the total sulfur content of the fuel being fired in the turbine, except as provided in 40 CFR 60.4365. The sulfur content of the fuel must be determined using total sulfur methods described in 40 CFR 60.4415. Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than half the applicable limit, ASTM D4084, D4810, D5504, or D6228, or Gas Processors Association Standard 2377 (all of which are incorporated by reference, see 40 CFR 60.17), which measure the major sulfur compounds, may be used [40 CFR 60.4360].

b. The permittee may elect not to monitor the total sulfur content of the fuel combusted in the turbine, if the fuel is demonstrated not to exceed potential sulfur emissions of 26 ng SO2/J (0.060 lb of SO2/MMBtu) heat input. One of the following sources of information shall be used to make the required demonstration [40 CFR 60.4365]:

(1) The fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying that the total sulfur content for natural is 20 grains of sulfur or less per 100 standard cubic feet, has potential sulfur emissions of less than 26 ng SO2/J (0.060 lb SO2/MMBtu) heat input [40 CFR 60.4365(a)];

(2) Representative fuel sampling data which show that the sulfur content of the fuel does not exceed 26 ng SO2/J (0.060 lb SO2/MMBtu) heat input. At a minimum, the amount of fuel sampling data specified in Section 2.3.1.4 or 2.3.2.4 of Appendix D to 40 CFR 75 is required [40 CFR 60.4365(b)].

5. Specific Recordkeeping Requirements:

a. The permittee shall maintain a log of the following:

(1) Combustion Turbine startup and shut down operations, including date and duration of each occurrence;

(2) Combustion Turbine operations at less than 0 °F ambient temperature, including date and duration of each occurrence;

(3) Monthly records of natural gas usage for the combustion turbine and duct burner, respectively (cubic feet/month); and,

(4) Documents specifying the sulfur content of the natural gas combusted, such as valid purchase contracts or supplier fuel analyses.
b. The permittee shall maintain a record of the cubic feet of natural gas used on a monthly basis.

6. **Specific Reporting Requirements:**
   For each affected unit that performs annual performance tests in accordance with 40 CFR 60.4340(a), the permittee must submit a written report of the results of each performance test before the close of business on the 60th day following the completion of the performance test [40 CFR 60.4375(b)].
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE
REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

EU-06  Maintenance Shop Parts Washers

Description:
3 Parts Washers
Austin Maintenance #1
Austin Maintenance #2
CVA Maintenance #1
Construction Date: May, 2020

APPLICABLE REGULATIONS:
401 KAR 59:185, New solvent metal cleaning equipment

1. Operating Limitations:
   a. The cleaner shall be equipped with a cover. If the solvent volatility is greater than fifteen
      (15) mm Hg measured at 100°F or if the solvent is agitated or heated, then the cover shall
      be designed so that it can be easily operated with one (1) hand [401 KAR 59:185 Section
      4(1)(a)].

   b. The cleaner shall be equipped with a drainage facility so that solvent that drains off parts
      removed from the cleaner will return to the cleaner. If the solvent volatility is greater than
      thirty-two (32) mm Hg measured at 100°F then the drainage facility shall be internal so
      that parts are enclosed under the cover while draining. The drainage facility may be
      external if the Cabinet determines that an internal type cannot fit into the cleaning system
      [401 KAR 59:185 Section 4(1)(b)].

   c. A permanent, conspicuous label, summarizing the operating requirements specified in 401
      KAR 59:185 Section 4(2) shall be installed on or near the cleaner [401 KAR 59:185 Section
      4(1)(c)].
      (1) Waste solvent shall not be disposed of or transferred to another party so that greater
      than twenty (20) percent by weight of the waste solvent can evaporate into the
      atmosphere. Waste solvent shall be stored only in covered containers [401 KAR
      59:185, Section 4(2)(a)].
      (2) The degreaser cover shall be closed if not handling parts in the cleaner [401 KAR
      59:185 Section 4(2)(b)].
      (3) Cleaned parts shall be drained for a minimum of fifteen (15) seconds, or until dripping
      ceases, whichever is longer [401 KAR 59:185, Section 4(2)(c)].
      (4) The flushing of parts with a flexible hose or other flushing device shall be performed
      only within the freeboard area of the cold cleaner. The solvent flow shall be directed
      downward to avoid turbulence at the air-solvent interface so as to prevent the solvent
      from splashing outside of the cold cleaner [401 KAR 59:185, Section 4(2)(d)].
      (5) Work area fans shall be positioned so that air is not directed across the opening of the
      cold cleaner [401 KAR 59:185, Section 4(2)(e)].
      (6) The use of an air-agitated solvent bath is prohibited. A pump-agitated solvent bath shall
      be operated so as to produce no observable splashing of the solvent against either the
      tank wall or the parts that are being cleaned [401 KAR 59:185, Section 4(2)(f)].
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

(7) The cold cleaner shall be free of all liquid leaks. Auxiliary cleaning equipment such as pumps, water separators, steam traps, or distillation units shall not have any visible leaks, tears, or cracks [401 KAR 59:185, Section 4(2)(g)].

(8) Spills that occur during solvent transfer shall be cleaned immediately. Wipe rags, or other absorbent equipment and materials, used to clean the spill shall be stored in a covered container for disposal unless storage of these items is prohibited by fire protection authorities [401 KAR 59:185, Section 4(2)(h)].

d. The solvent spray shall be a fluid stream, not a fine, atomized or shower type spray, and at a pressure that does not cause excessive splashing [401 KAR 59:185, Section 4(1)(d)].

e. Each cold cleaner shall not use a solvent with a vapor pressure that exceeds one (1.0) mm Hg (0.019 psi) measured at 20º C (68ºF) [401 KAR 59:185, Section 4(3)(b)].

f. If the solvent volatility is greater than thirty-two (32) mm Hg measured at 100ºF or if the solvent is heated above 120ºF, then one (1) of the following control devices shall be used [401 KAR 59:185 Section 4(1)(e)]:
   (1) Freeboard height that gives a freeboard ratio greater than or equal to seven-tenths (0.7)
   (2) Water cover, solvent shall be insoluble in and heavier than water
   (3) Other systems of equivalent control, such as a refrigerated chiller or carbon adsorption.

2. Emission Limitations:
   None

3. Testing Requirements:
   Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 1].

4. Specific Monitoring Requirements:
   The permittee shall monitor the amount of makeup solvent added to the parts washers.

5. Specific Recordkeeping Requirements:
   a. The permittee shall keep records of the amount of makeup solvent used (lbs.) on a monthly basis.

   b. Any individual or entity subject to the provisions of Section 4(3)(b) of 401 KAR 59:185 shall maintain records for a minimum of five (5) years that include the following information for each solvent purchase [401 KAR 59:185 Section 4(4)(b)]:
      (1) The name and address of the solvent supplier;
      (2) The date of the purchase;
      (3) The type of solvent; and
      (4) The vapor pressure of the solvent measured in mm Hg at 20ºC (68ºF).
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

6. **Specific Reporting Requirements:**
   The permittee shall report the amount of make-up solvent added to the parts washers, as a part of the semiannual reporting as required in Section F (5) & (6).
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

PM3 Paper Machine No. 3

EU-07/SN-87, 88, 89 Through Air Dryers #1, 2, and 3
Description: Paper drying operation with 3 burners.
Fuel Type: Natural Gas
Installation Date: Proposed October 2022

EU-07/SN-97 Paper Machine #3
Description: Paper Forming Operation
Installation Date: Proposed October 2022

APPLICABLE REGULATIONS:
401 KAR 59:010, New Process Operations

4. Operating Limitations:
Through Air Dryers #1, #2 and #3 shall only burn natural gas.

5. Emission Limitations:
   a. The opacity of visible emission shall not equal or exceed 20% [401 KAR 59:010, Section 3(1)(a)].

      Compliance Demonstration Method:
      See subsection 4. Monitoring Requirements for opacity compliance demonstration.

   b. The following emission limitations for particulate matter are pursuant to 401 KAR 59:010, Section 3 (2):

      Emission of particulate matter from a control device or stack of any affected facility up to a process rate of 1000 lbs/hr shall not exceed 2.34 lbs/hr. For processing rates greater than 1,000 lbs/hr up to 60,000 lbs/hr, particulate emissions shall not exceed the emission rate calculated by the following equation:

      \[ E = 3.59(P)^{0.62} \]

      E = the PM emissions rate (pounds/hour)
      P = the sheet process rate (tons/hour)

      Compliance Demonstration Method:
      The source is assumed to be in compliance with the mass standard based on the rates of particulate emissions calculated from the information provided in the application submitted by the source.

3. Testing Requirements:
   Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 1].
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

4. **Specific Monitoring Requirements:**
The permittee shall perform a qualitative visual observation of the opacity of emissions at each stack no less than weekly while the affected facility is operating. If visible emissions from the stacks are observed (not including condensed water in the plume), the permittee shall determine the opacity using Reference Method 9. In lieu of determining the opacity using U.S. EPA Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume).

5. **Specific Recordkeeping Requirements:**
   a. The permittee shall maintain a log of the visual observations noting date, time and initials of observers, records of corrective actions taken as a result of visible emissions from a stack and records of any Reference Method 9 readings performed.

   b. The permittee shall maintain a record of the tons of paper produced by the paper machine on a monthly basis.

6. **Specific Reporting Requirements:**
   See Section F(5) and F(6).
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

EG#4  Emergency Generator #4, Diesel Fired Emergency Compression Ignition (CI) Reciprocating Internal Combustion Engines (RICE)

Description:
One diesel fired emergency generator engine with rated capacity of 600 KW (909 HP) certified to Tier II emission standards.
Proposed Construction Date: October 2022

APPLICABLE REGULATIONS:
401 KAR 60:005 Section 2(2)(dddd) 40 C.F.R. 60.4200 to 60.4219, Tables 1 to 8 (Subpart IIII), Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

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

1. Operating Limitations:
   a. The permittee must use diesel fuel that meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel [40 CFR 60.4207(b)].

      Compliance Demonstration Method:
      The permittee shall demonstrate compliance with the diesel fuel requirements by using fuel supplier certification.

   b. The owner or operator must do all of the following, except as permitted under paragraph (g) of 40 CFR 60.4211 [40 CFR 60.4211(a)]:
      (1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
      (2) Change only those emission-related settings that are permitted by the manufacturer; and
      (3) Meet the requirements of 40 CFR part 1068, as they apply.

   c. The permittee must operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of 40 CFR 60.4211. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3) of 40 CFR 60.4211, is prohibited. If the permittee does not operate the engine according to the requirements in paragraphs (f)(1) through (3) of 40 CFR 60.4211, the engine will not be considered an emergency engine under 40 CFR 63 Subpart IIII and must meet all requirements for non-emergency engines [40 CFR 60.4211(f)].
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

(1) There is no time limit on the use of emergency stationary ICE in emergency situations [40 CFR 60.4211(f)(1)].

(2) The permittee may operate the emergency stationary ICE for the purposes specified in paragraph (f)(2)(i) of 40 CFR 60.4211 for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of 40 CFR 60.4211 counts as part of the 100 hours per calendar year allowed by this paragraph [40 CFR 60.4211(f)(2)].

i. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year [40 CFR 60.4211(f)(2)(i)].

(3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (f)(2) of 40 CFR 60.4211. Except as provided in paragraph (f)(3)(i) of 40 CFR 60.4211, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity [40 CFR 60.4211(f)(3)].

d. If the engine is equipped with a diesel particulate filter to comply with the emission standards in 40 CFR 60.4204, the diesel particulate filter shall be installed with a backpressure monitor that notifies the permittee when the high backpressure limit of the engine is approached [40 CFR 60.4209(b)].

2. Emission Limitations:

a. The permittee must comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE [40 CFR 60.4205(b)].

(1) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump engines to the emission standards specified in paragraphs (a)(1) through (2) of 40 CFR 60.4202 [40 CFR 60.4202(a)].

i. For engines with a rated power greater than or equal to 37 KW (50 HP), the Tier 2 or Tier 3 emission standards for new nonroad CI engines for the same rated power as described in 40 CFR part 1039, appendix I, for all pollutants and the smoke standards as specified in 40 CFR 1039.105 beginning in model year 2007 [40 CFR 60.4202(a)(2)].
SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Compliance Demonstration Method:
The permittee shall demonstrate compliance with the emission standards by purchasing an engine certified to the emission standards in 40 CFR 60.4205(b) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of 40 CFR 60.4211. [40 CFR 60.4211(c)].

b. For source-wide emissions limitations, see Section D.

3. Testing Requirements:
Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 1].

4. Specific Monitoring Requirements:
   a. The permittee shall monitor the fuel usage, based on storage tank loading records, in gallons on a monthly basis.

   b. The permittee must install a non-resettable hour meter prior to startup of the engines. [40 CFR 60.4209(a)].

5. Specific Recordkeeping Requirements:
   a. The permittee shall maintain records of fuel usage, based on storage tank loading records, in gallons on a monthly basis.

   b. The owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time [40 CFR 60.4214(b)].

   c. The permittee shall maintain documentation from supplier that the diesel fuel is certified to the standards in 40 CFR 1090.305 to demonstrate compliance with the diesel fuel requirements of 40 CFR 60.4207(b).

   d. For engines equipped with a diesel particulate filter, the permittee shall keep records of any corrective action taken after the backpressure monitor has notified the permittee that the high backpressure limit of the engine is approached [40 CFR 60.4214(c)].

6. Specific Reporting Requirements:
See Section F for general reporting requirements.
**SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**Source ID# 015, 016, 017, and 018 Air Make-up Unit Heaters**

**Description:**
015 (formerly IA 62) Four Air Makeup Units  
Primary Fuel: Natural Gas  
Maximum rated capacity: 9.5 MMBtu/hr each  
Construction Date: 1991

016 (formerly IA 34) Two Air Makeup Units  
Primary Fuel: Natural Gas  
Maximum rated capacity: 2 units 6.20 MMBtu/hr each  
Construction Date: 1991

017 (formerly IA 34) Four Air Makeup Units  
Primary Fuel: Natural Gas  
Maximum rated capacity: 4 units 3.24 MMBtu/hr each  
Construction Date: 1991

018 (formerly IA 70) Six Air Makeup Units  
Primary Fuel: Natural Gas  
Maximum rated capacity: 3 units 6.2 MMBtu/hr each and 3 units 10 MMBtu/hr each  
Construction Date: 1995

**APPLICABLE REGULATIONS:**
None

1. **Operating Limitations:**
   The hours of operation for the air make-up unit heaters shall not exceed 5088 hours on a yearly basis.

2. **Emission Limitations:**
   None

3. **Testing Requirements:**
   Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 50:045, Section 1].

4. **Specific Monitoring Requirements:**
   The permittee shall log the date that air make-up units are turned on for the first time for each heating season and the date that the air make-up units are turned off for the spring/summer season. At the end of each season, the total number of hours of operation shall be calculated and recorded.
SE\n
SE\n
5. **Specific Recordkeeping Requirements:**
   See Specific Monitoring Requirements above.

6. **Specific Reporting Requirements:**
   See Section F for general reporting requirements.
SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. Although these activities are designated as insignificant the permittee must comply with the applicable regulation. Process and emission control equipment at each insignificant activity subject to an opacity standard shall be inspected monthly and a qualitative visible emissions evaluation made. Results of the inspection, evaluation, and any corrective action shall be recorded in a log.

<table>
<thead>
<tr>
<th>Description</th>
<th>Generally Applicable Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Plant associated Insignificant Activities</strong></td>
<td></td>
</tr>
<tr>
<td>1. Two Propane Storage Tanks 1000 gallons</td>
<td>None</td>
</tr>
<tr>
<td>2. One Spent Oil Storage Tank 2,250 gallons</td>
<td>None</td>
</tr>
<tr>
<td>3. Two Fire Pump Diesel Fuel Tanks 300 gallons</td>
<td>None</td>
</tr>
<tr>
<td>4. One Emergency Generator Fuel Tank 100 gallons</td>
<td>None</td>
</tr>
<tr>
<td>5. Two Emergency Generator Fuel Tanks 220 gallons</td>
<td>None</td>
</tr>
<tr>
<td>6. Three Storage Tanks 750,000 gallons</td>
<td>None</td>
</tr>
<tr>
<td><strong>Process &amp; Fire Water</strong></td>
<td></td>
</tr>
<tr>
<td>7. Two Cooling Towers (CT), for Mill Air Compressors</td>
<td>401 KAR 59:010</td>
</tr>
<tr>
<td>8. Two Cooling Towers (CT), for Mill Chillers</td>
<td>401 KAR 59:010</td>
</tr>
<tr>
<td>9. One Closed Loop Cooling System, HFC 123</td>
<td>None</td>
</tr>
<tr>
<td>10. One Storage Tank IBC 220 gallons, Microbiocide (7330)</td>
<td>None</td>
</tr>
<tr>
<td>11. One Storage Tank 250 gallons, CT Closed System Inhibitor</td>
<td>None</td>
</tr>
<tr>
<td>12. One Storage Tank 250 gallons, CT Deposit Inhibitor</td>
<td>None</td>
</tr>
<tr>
<td>13. One Storage Tank 250 gallons, CT Deposit Inhibitor</td>
<td>None</td>
</tr>
<tr>
<td>14. One Storage Tank 1,000 gallons, #2 Diesel Fuel</td>
<td>None</td>
</tr>
<tr>
<td>15. One HVAC Unit on Roof, 0.15 MMBtu/hr</td>
<td>None</td>
</tr>
<tr>
<td>16. One Water-Heater, 0.20 MMBtu/hr</td>
<td>None</td>
</tr>
<tr>
<td><strong>Utilities associated Insignificant Activities</strong></td>
<td></td>
</tr>
<tr>
<td>17. Three WWTP Space Heaters, Total: 5.31 MMBtu/hr</td>
<td>None</td>
</tr>
<tr>
<td>(3 units - 3.25, 1.50 &amp; 0.56 MMBtu/hr)</td>
<td></td>
</tr>
<tr>
<td>18. One Space Heater - Boiler Room 4.5 MMBtu/hr</td>
<td>None</td>
</tr>
<tr>
<td>19. One New Oil Dispensing Rack 360 gallons</td>
<td>None</td>
</tr>
<tr>
<td>20. Spent Oil Storage Tank 100 gallons</td>
<td>None</td>
</tr>
<tr>
<td>21. Laboratory Hood, WWTP – Lab</td>
<td>None</td>
</tr>
<tr>
<td>22. One Silo 3,500 ft³(SN-44), WT-Pebble Lime Calcium Oxide</td>
<td>401 KAR 59:010</td>
</tr>
<tr>
<td>23. One Storage Tank 6,000 gallons, WWT-Defoamer (03PA086)</td>
<td>None</td>
</tr>
<tr>
<td>24. One Storage Tank 2,500 gallons, Chlorine Stabilizer (03PO0125)</td>
<td>None</td>
</tr>
<tr>
<td>25. One Storage Tank 2,500 gallons, Anionic Polymer (8736)</td>
<td>None</td>
</tr>
<tr>
<td>26. One Storage Tank 5,000 gallons, WWT-Sodium Hypochlorite 12.5%</td>
<td>None</td>
</tr>
<tr>
<td>27. One Storage Tank 16,000 gallons, WWT-Urea</td>
<td>None</td>
</tr>
<tr>
<td>28. One Storage Tank 2,500 gallons, WWT-Polymer (N7139)</td>
<td>None</td>
</tr>
<tr>
<td>29. One Storage Tank 1,500 gallons, WWT-Polymer (N7139)</td>
<td>None</td>
</tr>
<tr>
<td>30. One Storage Tank 1,500 gallons, Phosphoric Acid</td>
<td>None</td>
</tr>
<tr>
<td>31. One Storage Tank 2,500 gallons, WT-Polymer (8285)</td>
<td>None</td>
</tr>
<tr>
<td>32. One CO₂ Degasifier</td>
<td>None</td>
</tr>
</tbody>
</table>
## SECTION C - INSIGNIFICANT ACTIVITIES (CONTINUED)

<table>
<thead>
<tr>
<th>Description</th>
<th>Generally Applicable Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>33. One Powered Vent, Combined Sludge Wet Wall</td>
<td>None</td>
</tr>
<tr>
<td><strong>Recycled Fibers associated Insignificant Activities</strong></td>
<td></td>
</tr>
<tr>
<td>35. One New Oil Dispensing Rack 1200 gallons</td>
<td>None</td>
</tr>
<tr>
<td>36. Laboratory Hood, RF Lab</td>
<td>None</td>
</tr>
<tr>
<td>37. Two Recycled Fiber HD Pulper 6.46 mt/hr</td>
<td>None</td>
</tr>
<tr>
<td>38. One Recycled Fiber Wetlap Pulper 2.42 mt/hr</td>
<td>None</td>
</tr>
<tr>
<td>39. One Storage Silo 2,600 ft², Sludge</td>
<td>None</td>
</tr>
<tr>
<td>40. One Spent Oil Tank 2,000 gallons</td>
<td>None</td>
</tr>
<tr>
<td>41. One Storage Tank 10,000 gallons, Magnesium Sulfate (Epsom Salt)</td>
<td>None</td>
</tr>
<tr>
<td>42. One Storage Tank 8,000 gallons, Brine Solution</td>
<td>None</td>
</tr>
<tr>
<td>43. One Storage Tank 7,000 gallons, Liquid Starch (5330A)</td>
<td>None</td>
</tr>
<tr>
<td>44. One Storage Tank 13,000 gallons, Hydrogen Peroxide 50%</td>
<td>None</td>
</tr>
<tr>
<td>45. One Storage Tank 16,000 gallons, Sodium Hydroxide 50%</td>
<td>None</td>
</tr>
<tr>
<td>46. One Storage Tank 7,000 gallons, Boral</td>
<td>None</td>
</tr>
<tr>
<td>47. One Storage Tank 8,000 gallons, Boral Solution</td>
<td>None</td>
</tr>
<tr>
<td>48. One Storage Tank 7,000 gallons, Sodium Bisulfate</td>
<td>None</td>
</tr>
<tr>
<td>49. One Storage Tank 7,000 gallons, Defoamer (7569)</td>
<td>None</td>
</tr>
<tr>
<td>50. One Storage Tank 7,000 gallons, Anionic Polymer (8736)</td>
<td>None</td>
</tr>
<tr>
<td>51. One Storage Tank 7,000 gallons, Dry Strength (3000)</td>
<td>None</td>
</tr>
<tr>
<td>52. One Storage Tank 25,000 gallons, Wet Strength - Kymene</td>
<td>None</td>
</tr>
<tr>
<td>53. One Process Tank 7,000 gallons, Cationic Polymer (7655)</td>
<td>None</td>
</tr>
<tr>
<td>54. One Storage Tank 7,000 gallons, Anionic Polymer (8736)</td>
<td>None</td>
</tr>
<tr>
<td>55. One Storage Tank 7,000 gallons, Chelant (SPE9505)</td>
<td>None</td>
</tr>
<tr>
<td>56. One Hydrosulfite Bleaching Tower, 11,000 gallons (No Vent)</td>
<td>None</td>
</tr>
<tr>
<td>57. One Process Tank 17,000 gallons, Hydrogen Peroxide</td>
<td>None</td>
</tr>
<tr>
<td>58. One Storage Tank 7,000 gallons, CBP Polymer (71300)</td>
<td>None</td>
</tr>
<tr>
<td>59. One Housekeeping Device for Venturi Scrubber (SN-42)</td>
<td>None</td>
</tr>
<tr>
<td>60. Two Clarifier Units (SN-205 and SN-206)</td>
<td>None</td>
</tr>
<tr>
<td>61. Paper Trim Baler</td>
<td>401 KAR 59:010</td>
</tr>
<tr>
<td><strong>Paper Machine #1 associated Insignificant Activities</strong></td>
<td></td>
</tr>
<tr>
<td>63. One Maintenance Shop, Indoor Welding</td>
<td>401 KAR 59:010</td>
</tr>
<tr>
<td>64. One Mist Eliminator (SN-10)</td>
<td>401 KAR 63:020</td>
</tr>
<tr>
<td>65. One Vacuum Blower Vent (SN-33)</td>
<td>None</td>
</tr>
<tr>
<td>66. One Mist Elimination System (SN-28)</td>
<td>None</td>
</tr>
<tr>
<td>67. One Dry End Pulper Stock Chest (SN-09)</td>
<td>None</td>
</tr>
<tr>
<td>68. Clarifier Unit (SN-326)</td>
<td>None</td>
</tr>
</tbody>
</table>
### SECTION C - INSIGNIFICANT ACTIVITIES (CONTINUED)

<table>
<thead>
<tr>
<th>Description</th>
<th>Generally Applicable Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Paper Machine #2 associated Insignificant Activities</strong></td>
<td></td>
</tr>
<tr>
<td>69. One Cooling Tower, for Vacuum Pump Seal Water (Nalco 3D Trasar 3DT230)</td>
<td>401 KAR 59:010</td>
</tr>
<tr>
<td>71. One Mist Eliminator (SN-06)</td>
<td>None</td>
</tr>
<tr>
<td>72. One Vacuum Blower Vent (SN-32), Unit #1</td>
<td>None</td>
</tr>
<tr>
<td>73. One Vacuum Blower Vent (SN-32A), Unit #2</td>
<td>None</td>
</tr>
<tr>
<td>74. One Vacuum Blower Vent (SN-32B), Unit #3</td>
<td>None</td>
</tr>
<tr>
<td>75. One CVA Pulper, Waste Converting Fiber for Recycle</td>
<td>None</td>
</tr>
<tr>
<td>76. Heat Recovery System, Closed Loop Propylene Glycol</td>
<td>None</td>
</tr>
<tr>
<td>77. Two Dry End Pulper Stock Chests (SN-50 and SN-51)</td>
<td>401 KAR 59:010</td>
</tr>
<tr>
<td>78. One Clarifier Unit (SN-428)</td>
<td>None</td>
</tr>
<tr>
<td>79. Real Winder Vacuum System (SN-51)</td>
<td>401 KAR 59:010</td>
</tr>
<tr>
<td><strong>Converting Lines associated Insignificant Activities</strong></td>
<td></td>
</tr>
<tr>
<td>80. One Maintenance Shop, Indoor Welding</td>
<td>401 KAR 59:010</td>
</tr>
<tr>
<td>81. Twelve Water Based Adhesive Units, BRT #1 Core Unit</td>
<td>401 KAR 63:020</td>
</tr>
<tr>
<td><strong>Paper Machine #3 associated Insignificant Activities</strong></td>
<td></td>
</tr>
<tr>
<td>82. One Pulper Tank (14,795 gal)</td>
<td>None</td>
</tr>
<tr>
<td>83. 11 Tanks with water and process chemicals (2,000-11,000 gal)</td>
<td>None</td>
</tr>
<tr>
<td>84. One Buffer Storage Tank (44,880 gal)</td>
<td>None</td>
</tr>
<tr>
<td>85. One Recovery Storage Tank (44,800 gal)</td>
<td>None</td>
</tr>
<tr>
<td>86. Storage Tanks (non-volatile)</td>
<td>None</td>
</tr>
<tr>
<td>87. Reel Winder and Paper Trim Baler (vented indoors)</td>
<td>401 KAR 59:010</td>
</tr>
<tr>
<td>88. Vacuum Blower Vent</td>
<td>None</td>
</tr>
<tr>
<td>89. Cooling Tower</td>
<td>401 KAR 59:010</td>
</tr>
</tbody>
</table>
SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

As required by Section 1b of the Cabinet Provisions and Procedures for Issuing Title V Permits incorporated by reference in 401 KAR 52:020, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.
SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. Pursuant to Section 1b-IV-1 of the Cabinet Provisions and Procedures for Issuing Title V Permits incorporated by reference in 401 KAR 52:020, Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
   a. Date, place as defined in this permit, and time of sampling or measurements;
   b. Analyses performance dates;
   c. Company or entity that performed analyses;
   d. Analytical techniques or methods used;
   e. Analyses results; and
   f. Operating conditions during time of sampling or measurement.

2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five (5) years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Sections 1b-IV-2 and 1a-8 of the Cabinet Provisions and Procedures for Issuing Title V Permits incorporated by reference in 401 KAR 52:020, Section 26].

3. In accordance with the requirements of 401 KAR 52:020, Section 3(1)h, the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
   a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
   b. To access and copy any records required by the permit:
   c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.
   Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.

4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

5. Summary reports of any monitoring required by this permit shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Sections 1b-V-1 of the Cabinet Provisions and Procedures for Issuing Title V Permits incorporated by reference in 401 KAR 52:020, Section 26].
SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

6. The semi-annual reports are due by January 30th and July 30th of each year. All reports shall be certified by a responsible official pursuant to 401 KAR 52:020, Section 23. If continuous emission and opacity monitors are required by regulation or this permit, data shall be reported in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All deviations from permit requirements shall be clearly identified in the reports.

7. In accordance with the provisions of 401 KAR 50:055, Section 1, the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
   a. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
   b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.

8. The permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken shall be submitted to the Regional Office listed on the front of this permit. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement does not identify a specific time frame for reporting deviations, prompt reporting, as required by Sections 1b-V, 3 and 4 of the Cabinet Provisions and Procedures for Issuing Title V Permits incorporated by reference in 401 KAR 52:020, Section 26, shall be defined as follows:
   a. For emissions of a hazardous air pollutant or a toxic air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
   b. For emissions of any regulated air pollutant, excluding those listed in F.8.a., that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
   c. All deviations from permit requirements, including those previously reported, shall be included in the semiannual report required by F.6.

9. Pursuant to 401 KAR 52:020, Title V permits, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
   a. Identification of the term or condition;
   b. Compliance status of each term or condition of the permit;
   c. Whether compliance was continuous or intermittent;
SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

d. The method used for determining the compliance status for the source, currently and over the reporting period.

e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

f. The certification shall be submitted by January 30th of each year. Annual compliance certifications shall be sent to the following addresses:

Division for Air Quality
Owensboro Regional Office
3032 Alvery Park Drive W, Suite 700
Owensboro, KY 42303

U.S. EPA Region 4
Air Enforcement Branch
Atlanta Federal Center
61 Forsyth St. SW
Atlanta, GA 30303-8960

10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the Division with all information necessary to determine its subject emissions within 30 days of the date the Kentucky Emissions Inventory System (KYEIS) emissions survey is mailed to the permittee.
SECTION G - GENERAL PROVISIONS

1. General Compliance Requirements

   a. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020, Section 3(1)(b), and a violation of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act). Noncompliance with this permit is grounds for enforcement action including but not limited to termination, revocation and reissuance, revision or denial of a permit [Section 1a-3 of the Cabinet Provisions and Procedures for Issuing Title V Permits incorporated by reference in 401 KAR 52:020, Section 26].

   b. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a-6 of the Cabinet Provisions and Procedures for Issuing Title V Permits incorporated by reference in 401 KAR 52:020, Section 26].

   c. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:

      (1) If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;

      (2) The Cabinet or the United States Environmental Protection Agency (U. S. EPA) determines that the permit must be revised or revoked to assure compliance with the applicable requirements;

      (3) The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;

      (4) New requirements become applicable to a source subject to the Acid Rain Program.

   Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

   d. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the conditions of this permit [Sections 1a-7 and 8 of the Cabinet Provisions and Procedures for Issuing Title V Permits incorporated by reference in 401 KAR 52:020, Section 26].

   e. Emission units described in this permit shall demonstrate compliance with applicable requirements if requested by the Division [401 KAR 52:020, Section 3(1)(c)].
SECTION G - GENERAL PROVISIONS (CONTINUED)

f. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].

g. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a-14 of the Cabinet Provisions and Procedures for Issuing Title V Permits incorporated by reference in 401 KAR 52:020, Section 26].

h. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a-4 of the Cabinet Provisions and Procedures for Issuing Title V Permits incorporated by reference in 401 KAR 52:020, Section 26].

i. All emission limitations and standards contained in this permit shall be enforceable as a practical matter. All emission limitations and standards contained in this permit are enforceable by the U.S. EPA and citizens except for those specifically identified in this permit as state-origin requirements. [Section 1a-15 of the Cabinet Provisions and Procedures for Issuing Title V Permits incorporated by reference in 401 KAR 52:020, Section 26].

j. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a-10 of the Cabinet Provisions and Procedures for Issuing Title V Permits incorporated by reference in 401 KAR 52:020, Section 26].

k. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3) b].

l. This permit does not convey property rights or exclusive privileges [Section 1a-9 of the Cabinet Provisions and Procedures for Issuing Title V Permits incorporated by reference in 401 KAR 52:020, Section 26].

m. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Cabinet or any other federal, state, or local agency.

n. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3) d.].

o. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3) a.].
SECTION G - GENERAL PROVISIONS (CONTINUED)

p. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.

q. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with:
   (1) Applicable requirements that are included and specifically identified in this permit; and
   (2) Non-applicable requirements expressly identified in this permit.

2. Permit Expiration and Reapprication Requirements

a. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six (6) months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:020, Section 12].

b. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:020, Section 8(2)].

3. Permit Revisions

a. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the State Implementation Plan (SIP) or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).

b. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.
SECTION G - GENERAL PROVISIONS (CONTINUED)

4. Construction, Start-Up, and Initial Compliance Demonstration Requirements

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the construction of the equipment described herein, emission units EU-07 Paper Machine No. 3 and EG#4 Diesel Emergency Generator in accordance with the terms and conditions of this permit.

a. Construction of any process and/or air pollution control equipment authorized by this permit shall be conducted and completed only in compliance with the conditions of this permit.

b. Within thirty (30) days following commencement of construction and within fifteen (15) days following start-up and attainment of the maximum production rate specified in the permit application, or within fifteen (15) days following the issuance date of this permit, whichever is later, the permittee shall furnish to the Regional Office listed on the front of this permit in writing, notification of the following:
   (1) The date when construction commenced.
   (2) The date of start-up of the affected facilities listed in this permit.
   (3) The date when the maximum production rate specified in the permit application was achieved.

c. Pursuant to 401 KAR 52:020, Section 3(2), unless construction is commenced within eighteen (18) months after the permit is issued, or begins but is discontinued for a period of eighteen (18) months or is not completed within a reasonable timeframe then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon written request, the Cabinet may extend these time periods if the source shows good cause.

d. Pursuant to 401 KAR 50:055, Section 2(1)(a), an owner or operator of any affected facility subject to any standard within the administrative regulations of the Division for Air Quality shall-demonstrate compliance with the applicable standard(s) within sixty (60) days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial start-up of such facility. Pursuant to 401 KAR 52:020, Section 3(3)(c), sources that have not demonstrated compliance within the timeframes prescribed in 401 KAR 50:055, Section 2(1)(a), shall operate the affected facility only for purposes of demonstrating compliance unless authorized under an approved compliance plan or an order of the cabinet.

e. This permit shall allow time for the initial start-up, operation, and compliance demonstration of the affected facilities listed herein. However, within sixty (60) days after achieving the maximum production rate at which the affected facilities will be operated but not later than 180 days after initial start-up of such facilities, the permittee shall conduct a performance demonstration on the affected facilities in accordance with 401 KAR 50:055, General compliance requirements. Testing must also be conducted in accordance with General Provisions G.5 of this permit.
SECTION G - GENERAL PROVISIONS (CONTINUED)

f. Terms and conditions in this permit established pursuant to the construction authority of 401 KAR 51:017 or 401 KAR 51:052 shall not expire.

5. Testing Requirements

a. Pursuant to 401 KAR 50:045, Section 2, a source required to conduct a performance test shall submit a completed Compliance Test Protocol form, DEP form 6028, or a test protocol a source has developed for submission to other regulatory agencies, in a format approved by the cabinet, to the Division's Frankfort Central Office a minimum of sixty (60) days prior to the scheduled test date. Pursuant to 401 KAR 50:045, Section 7, the Division shall be notified of the actual test date at least thirty (30) days prior to the test.

b. Pursuant to 401 KAR 50:045, Section 5, in order to demonstrate that a source is capable of complying with a standard at all times, any required performance test shall be conducted under normal conditions that are representative of the source’s operations and create the highest rate of emissions. If [When] the maximum production rate represents a source’s highest emissions rate and a performance test is conducted at less than the maximum production rate, a source shall be limited to a production rate of no greater than 110 percent of the average production rate during the performance tests. If and when the facility is capable of operation at the rate specified in the application, the source may retest to demonstrate compliance at the new production rate. The Division for Air Quality may waive these requirements on a case-by-case basis if the source demonstrates to the Division's satisfaction that the source is in compliance with all applicable requirements.

c. Results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days or sooner if required by an applicable standard, after the completion of the fieldwork.

6. Acid Rain Program Requirements

a. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

b. The permittee shall comply with all applicable requirements and conditions of the Acid Rain Permit and the Phase II permit application (including the Phase II NOx compliance plan and averaging plan, if applicable) incorporated into the Title V permit issued for this source. The source shall also comply with all requirements of any revised or future acid rain permit(s) issued to this source.
SECTION G - GENERAL PROVISIONS (CONTINUED)


a. Pursuant to 401 KAR 52:020, Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
   (1) An emergency occurred and the permittee can identify the cause of the emergency;
   (2) The permitted facility was at the time being properly operated;
   (3) During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
   (4) Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.1-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
   (5) This requirement does not relieve the source of other local, state or federal notification requirements.

b. Emergency conditions listed in General Condition G.7.a above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].

c. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].

8. Ozone Depleting Substances

a. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
   (1) Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
   (2) Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
   (3) Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
   (4) Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.155.
   (5) Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156 and 40 CFR 82.157.
   (6) Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
SECTION G - GENERAL PROVISIONS (CONTINUED)

b. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.


a. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to U.S. EPA using the RMP* eSubmit software.

b. If requested, submit additional relevant information to the Division or the U.S. EPA.
SECTION H - ALTERNATE OPERATING SCENARIOS

None

SECTION I - COMPLIANCE SCHEDULE

None