Commonwealth of Kentucky
Energy and Environment Cabinet
Department for Environmental Protection
Division for Air Quality
300 Sower Boulevard, 2nd Floor
Frankfort, Kentucky 40601
(502) 564-3999

Draft

AIR QUALITY PERMIT

Issued under 401 KAR 52:030

Permittee Name:	**Somerset Hardwood Flooring**
Mailing Address:	**P.O. Box 1355, Somerset, KY 42502**
Source Name:	**Somerset Hardwood Flooring**
Mailing Address:	**70 West Racetrack Road, Somerset, KY 42503**
Source Location:	**Same as above**
Permit ID:	**F-24-035**
Agency Interest #:	**3806**
Activity ID:	**APE20190002**
Review Type:	**Conditional Major, Operating**
Source ID:	**21-199-00079**
Regional Office:	**London Regional Office** **875 S. Main Street** **London, KY 40741** **(606) 330-2080**
County:	**Pulaski**
Application Complete Date:	**12/26/2024**
Issuance Date:	
Expiration Date:	

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

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Permit	Permit Type	Activity#	Complete Date	Issuance Date	Summary of Action
F-24-035	**Renewal**	**APE20190002 APE20240001**	**12/26/2024**		**Renewal; Modify EU 01A-2 & EU 01B, Add EU 12, 13, & 14**

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 was 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 52:030, Federally-enforceable permits for non-major sources.

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

Emission Unit 01A-1 Planers and Rip Saws

Description:
EU 01A is a common stack from the control device that controls emissions from the following emission points identified below:

EP70 Newman Double Planer and Scanning
EP71 Optimizing Rip Saw

Rated Capacity: 10,000 Board Feet / hr
Control Device: Fabric Filter Dust Collector (DC1), Constructed 1995
Control Efficiency: 99.9% Particulate Matter
Construction Date: 2008

APPLICABLE REGULATIONS:
401 KAR 59:010, *New process operations*

1. **Operating Limitations:**
   See **Section D – Source Emission Limitations and Testing Requirements.**

2. **Emission Limitations:**
   a. The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than 20 percent opacity [401 KAR 59:010, Section 3(1)(a)].

   Compliance Demonstration Method:
   Compliance shall be demonstrated according to **4. Specific Monitoring Requirements (a)**.

   b. The permittee shall not cause, suffer, allow or permit the emission into the open air of particulate matter which is in excess of the quantity specified in the table below: [401 KAR 59:010, Section 3(2)]

P = Process Weight Rate (tons/hr)	E = Allowable Particulate Emission Rate (lb/hr)
$P < 0.5$	$E = 2.34$
$0.5 \leq P \leq 30$	$E = 3.59P^{0.62}$

   Compliance Demonstration Method:
   The permittee is assumed to be in compliance with the limit based on proper operation and maintenance of the associated control device. See **7. Specific Control Equipment Operating Conditions.**

   c. See **Section D – Source Emission Limitations and Testing Requirements.**

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. Testing Requirements:
Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1].

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 U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:030, Section 10].

b. The permittee shall monitor and record the amount (Board feet) of wood processed and hours of operation on a monthly basis [401 KAR 52:030, Section 10].

5. Specific Recordkeeping Requirements:
The permittee shall keep records of the following [401 KAR 52:030, Section 10]:

i. A log of the qualitative visual observations made as specified in **4. Specific Monitoring Requirements a.** including the date, time, initials of observer, whether any emissions were observed (yes/no), and any U.S. EPA Reference Method 9 readings taken;

ii. The amount of wood processed and hours of operation; and

iii. Records regarding maintenance of control equipment.

6. Specific Reporting Requirements:
See **Section F – Monitoring, Recordkeeping, and Reporting Requirements**.

7. Specific Control Equipment Operating Conditions:

a. The fabric filter shall be operated to maintain compliance with permitted emission limitations in accordance with manufacturer's specifications and standard operating practices [401 KAR 52:030, Section 10 & 401 KAR 50:055, Section 2(5)].

b. The permittee shall maintain records regarding the maintenance of the fabric filter [401 KAR 52:030, Section 10].

c. See **Section E – Source Control Equipment Requirements.**

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 01A-2 Mill Line B

Description:
EU 01A is a common stack from the control device that controls emissions from the following emission points identified below:

Internal Designation	Name	Construction Date
EP1	Hasko Rip Saw	1999
EP3-9	2 System TM Saws	09/2015
EP10	Hasko Sidematcher	2000
EP11-16A	Finished Knot Saws	2009
EP18, EP19	Hasko Endmatcher	2009

Rated Capacity: 5,000 Board Feet / hr
Control Device: Fabric Filter Dust Collector (DC1), Constructed 1995
Control Efficiency: 99.9% Particulate Matter

APPLICABLE REGULATIONS:
401 KAR 59:010, *New process operations*

1. **Operating Limitations:**
   See **Section D – Source Emission Limitations and Testing Requirements.**

2. **Emission Limitations:**
   a. The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than 20 percent opacity [401 KAR 59:010, Section 3(1)(a)].

      Compliance Demonstration Method:
      Compliance shall be demonstrated according to **4. Specific Monitoring Requirements (a)**.

   b. The permittee shall not cause, suffer, allow or permit the emission into the open air of particulate matter which is in excess of the quantity specified in the table below: [401 KAR 59:010, Section 3(2)]

P = Process Weight Rate (tons/hr)	E = Allowable Particulate Emission Rate (lb/hr)
$P < 0.5$	$E = 2.34$
$0.5 \leq P \leq 30$	$E = 3.59P^{0.62}$

      Compliance Demonstration Method:
      The permittee is assumed to be in compliance with the limit based on proper operation and maintenance of the associated control device. See **7. Specific Control Equipment Operating Conditions.**

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

c. See **Section D – Source Emission Limitations and Testing Requirements.**

3. Testing Requirements:
Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1].

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 U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:030, Section 10].

b. The permittee shall monitor and record the amount (Board feet) of wood processed and hours of operation on a monthly basis [401 KAR 52:030, Section 10].

5. Specific Recordkeeping Requirements:
The permittee shall keep records of the following [401 KAR 52:030, Section 10]:

i. A log of the qualitative visual observations made as specified in **4. Specific Monitoring Requirements a.** including the date, time, initials of observer, whether any emissions were observed (yes/no), and any U.S. EPA Reference Method 9 readings taken;

ii. The amount of wood processed and hours of operation; and

iii. Records regarding maintenance of control equipment.

6. Specific Reporting Requirements:
See **Section F – Monitoring, Recordkeeping, and Reporting Requirements**.

7. Specific Control Equipment Operating Conditions:

a. The fabric filter shall be operated to maintain compliance with permitted emission limitations in accordance with manufacturer's specifications and standard operating practices [401 KAR 52:030, Section 10 & 401 KAR 50:055, Section 2(5)].

b. The permittee shall maintain records regarding the maintenance of the fabric filter [401 KAR 52:030, Section 10].

c. See **Section E – Source Control Equipment Requirements.**

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 01A-3 **Mill Line Support Equipment**

Description:
EU 01A is a common stack from the control device that controls emissions from the following emission points identified below:

Internal Designation	Name	Construction Date
EP72	Vecoplan Rotary Grinder	2008
EP02	Scrap Saw	1995
Misc. Maintenance	Oliver Planer	1995
Misc. Maintenance	Johnson Rip Saw	1995

Rated Capacity: 5,000 Board Feet / hr
Control Device: Fabric Filter Dust Collector (DC1), Constructed 1995
Control Efficiency: 99.9% Particulate Matter

APPLICABLE REGULATIONS:
401 KAR 59:010, *New process operations*

1. **Operating Limitations:**
   See **Section D – Source Emission Limitations and Testing Requirements.**

2. **Emission Limitations:**
   a. The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than 20 percent opacity [401 KAR 59:010, Section 3(1)(a)].

      Compliance Demonstration Method:
      Compliance shall be demonstrated according to **4. Specific Monitoring Requirements (a)**.

   b. The permittee shall not cause, suffer, allow or permit the emission into the open air of particulate matter which is in excess of the quantity specified in the table below: [401 KAR 59:010, Section 3(2)]

P = Process Weight Rate (tons/hr)	E = Allowable Particulate Emission Rate (lb/hr)
$P < 0.5$	$E = 2.34$
$0.5 \leq P \leq 30$	$E = 3.59P^{0.62}$

      Compliance Demonstration Method:
      The permittee is assumed to be in compliance with the limit based on proper operation and maintenance of the associated control device. See **7. Specific Control Equipment Operating Conditions.**

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

c. See **Section D – Source Emission Limitations and Testing Requirements.**

3. Testing Requirements:
Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1].

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 U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:030, Section 10].

b. The permittee shall monitor and record the amount (Board feet) of wood processed and hours of operation on a monthly basis [401 KAR 52:030, Section 10].

5. Specific Recordkeeping Requirements:
The permittee shall keep records of the following [401 KAR 52:030, Section 10]:

i. A log of the qualitative visual observations made as specified in **4. Specific Monitoring Requirements a.** including the date, time, initials of observer, whether any emissions were observed (yes/no), and any U.S. EPA Reference Method 9 readings taken;

ii. The amount of wood processed and hours of operation; and

iii. Records regarding maintenance of control equipment.

6. Specific Reporting Requirements:
See **Section F – Monitoring, Recordkeeping, and Reporting Requirements**.

7. Specific Control Equipment Operating Conditions:

a. The fabric filter shall be operated to maintain compliance with permitted emission limitations in accordance with manufacturer's specifications and standard operating practices [401 KAR 52:030, Section 10 & 401 KAR 50:055, Section 2(5)].

b. The permittee shall maintain records regarding the maintenance of the fabric filter [401 KAR 52:030, Section 10].

c. See **Section E – Source Control Equipment Requirements.**

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 01B **Mill Line C**

Description:
EU 01B is a common stack from the control device that controls emissions from the following emission points identified below:

Internal Designation	Name	Construction Date
EP20	Hasko Rip Saw	2003
EP21-25	2 System TM Saws	06/2016
EP26	Hasko Sidematcher	2004
EP27-31	Finished Knot Saws	1999
EP32	Salvage Saw	1999
EP33, 34	Hasko Endmatcher	1999

Rated Capacity: 5,000 Board Feet / hr
Control Equipment: Fabric Filter Dust Collector (DC2), Constructed 1999
Control Efficiency: 99.9% Particulate Matter

APPLICABLE REGULATIONS:
401 KAR 59:010, *New process operations*

1. **Operating Limitations:**
   See **Section D – Source Emission Limitations and Testing Requirements.**

2. **Emission Limitations:**
   a. The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than 20 percent opacity [401 KAR 59:010, Section 3(1)(a)].

      Compliance Demonstration Method:
      Compliance shall be demonstrated according to **4. Specific Monitoring Requirements (a)**.

   b. The permittee shall not cause, suffer, allow or permit the emission into the open air of particulate matter which is in excess of the quantity specified in the table below: [401 KAR 59:010, Section 3(2)]

P = Process Weight Rate (tons/hr)	E = Allowable Particulate Emission Rate (lb/hr)
$P < 0.5$	$E = 2.34$
$0.5 \leq P \leq 30$	$E = 3.59P^{0.62}$

      Compliance Demonstration Method:
      The permittee is assumed to be in compliance with the limit based on proper operation and

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

maintenance of the associated control device. See **7. Specific Control Equipment Operating Conditions.**

c. See **Section D – Source Emission Limitations and Testing Requirements.**

3. Testing Requirements:
Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1].

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 U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:030, Section 10].

b. The permittee shall monitor and record the amount (Board feet) of wood processed and hours of operation on a monthly basis [401 KAR 52:030, Section 10].

5. Specific Recordkeeping Requirements:
The permittee shall keep records of the following [401 KAR 52:030, Section 10]:

i. A log of the qualitative visual observations made as specified in **4. Specific Monitoring Requirements a.** including the date, time, initials of observer, whether any emissions were observed (yes/no), and any U.S. EPA Reference Method 9 readings taken;

ii. The amount of wood processed and hours of operation; and

iii. Records regarding maintenance of control equipment.

6. Specific Reporting Requirements:
See **Section F – Monitoring, Recordkeeping, and Reporting Requirements**.

7. Specific Control Equipment Operating Conditions:

a. The fabric filter shall be operated to maintain compliance with permitted emission limitations in accordance with manufacturer's specifications and standard operating practices [401 KAR 52:030, Section 10 & 401 KAR 50:055, Section 2(5)].

b. The permittee shall maintain records regarding the maintenance of the fabric filter [401 KAR 52:030, Section 10].

c. See **Section E – Source Control Equipment Requirements.**

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 01C **Wood Hog and Wood Silos**

Description:
EU 01C is a common stack from the control device that controls emissions from the following emission points identified below:

Name	Construction Date
Wood Silo #1	1999
Wood Silo #2	1995
Scrap Wood Hog	2000
Wood Waste Dust Collector DC1	2009
Wood Waste Dust Collector DC2	2009

Rated Capacity: 5,000 Board Feet / hr per dust collector
Control Equipment: Fabric Filter Dust Collector (DC4), Constructed 1995
Control Efficiency: 99.9% Particulate Matter

APPLICABLE REGULATIONS:
401 KAR 59:010, *New process operations*

1. **Operating Limitations:**
   See **Section D – Source Emission Limitations and Testing Requirements.**

2. **Emission Limitations:**
   a. The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than 20 percent opacity [401 KAR 59:010, Section 3(1)(a)].

      Compliance Demonstration Method:
      Compliance shall be demonstrated according to **4. Specific Monitoring Requirements (a)**.

   b. The permittee shall not cause, suffer, allow or permit the emission into the open air of particulate matter which is in excess of the quantity specified in the table below: [401 KAR 59:010, Section 3(2)]

P = Process Weight Rate (tons/hr)	E = Allowable Particulate Emission Rate (lb/hr)
$P < 0.5$	$E = 2.34$
$0.5 \leq P \leq 30$	$E = 3.59P^{0.62}$

      Compliance Demonstration Method:
      The permittee is assumed to be in compliance with the limit based on proper operation and maintenance of the associated control device. See **7. Specific Control Equipment Operating Conditions.**

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

c. See **Section D – Source Emission Limitations and Testing Requirements.**

3. Testing Requirements:
Testing shall be conducted at such times as may be requested by the cabinet [401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1].

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 U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:030, Section 10].

b. The permittee shall monitor and record the amount (Board feet) of wood processed and hours of operation on a monthly basis [401 KAR 52:030, Section 10].

5. Specific Recordkeeping Requirements:
The permittee shall keep records of the following [401 KAR 52:030, Section 10]:

i. A log of the qualitative visual observations made as specified in **4. Specific Monitoring Requirements a.** including the date, time, initials of observer, whether any emissions were observed (yes/no), and any U.S. EPA Reference Method 9 readings taken;

ii. The amount of wood processed and hours of operation; and

iii. Records regarding maintenance of control equipment.

6. Specific Reporting Requirements:
See **Section F – Monitoring, Recordkeeping, and Reporting Requirements**.

7. Specific Control Equipment Operating Conditions:

a. The fabric filter shall be operated to maintain compliance with permitted emission limitations in accordance with manufacturer's specifications and standard operating practices [401 KAR 52:030, Section 10 & 401 KAR 50:055, Section 2(5)].

b. The permittee shall maintain records regarding the maintenance of the fabric filter [401 KAR 52:030, Section 10].

c. See **Section E – Source Control Equipment Requirements.**

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 02 **Storage and Truck Unloading**

Description:
The emission unit encompasses the activities associated with wood storage and loading and unloading from trucks.
Rated Capacity: 45,000,000 Board Feet / year

APPLICABLE REGULATIONS:
401 KAR 63:010, *Fugitive emissions*

1. **Operating Limitations:**
   a. A person shall not cause, suffer, or allow any material to be handled, processed, transported, or stored; a building or its appurtenances to be constructed, altered, repaired, or demolished; or a road to be used without taking reasonable precaution to prevent particulate matter from becoming airborne. Reasonable precautions shall include, as applicable: [401 KAR 63:010, Section 3(1)]

      i. Use if possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land; [401 KAR 63:010, Section 3(1)(a)]

      ii. Application and maintenance of asphalt, oil, water, or suitable chemicals on roads, materials stockpiles, and other surfaces that can create airborne dusts; [401 KAR 63:010, Section 3(1)(b)]

      iii. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials, or the use of water sprays or other measures to suppress the dust emissions during handling. Adequate containment methods shall be employed during sandblasting or other similar operations; [401 KAR 63:010, Section 3(1)(c)]

      iv. Covering, at all times while in motion, open bodied trucks transporting materials likely to become airborne; [401 KAR 63:010, Section 3(1)(d)]

      v. The maintenance of paved roadways in a clean condition; or [401 KAR 63:010, Section 3(1)(e)]

      vi. The prompt removal of earth or other material from a paved street to which earth or other material has been transported by trucking or earth moving equipment or erosion by water [401 KAR 63:010, Section 3(1)(f)].

   b. If dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape from a building or equipment in such a manner and amount as to cause a nuisance or to violate any administrative regulation, the secretary may, based on the cause, type, or amount of a fugitive emission, order that the building or equipment in which processing, handling and storage are done be tightly closed and ventilated in such a way that all air and gases and air or gas borne material leaving the building or equipment are treated by removal or

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

destruction of air contaminants before discharge to the open air [401 KAR 63:010, Section 3(3)].

c. At all times when in motion, open bodied trucks, operating outside company property, transporting materials likely to become airborne shall be covered [401 KAR 63:010, Section 4(1)].

d. A person shall not cause, suffer, or allow earth or other material being transported by truck or earth moving equipment to be deposited onto a paved street or roadway [401 KAR 63:010, Section 4(3)].

e. See **Section D – Source Emission Limitations and Testing Requirements.**

2. Emission Limitations:

a. The permittee shall not cause, suffer, or allow visible fugitive dust emissions beyond the lot line of the property on which the emissions originate, as determined by U.S. EPA Reference Method 22 of Appendix A in 40 C.F.R. Part 60, for: [401 KAR 63:010, Section 3(2)]

i. More than five (5) minutes of emission time during any sixty (60) minute observation period; or [401 KAR 63:010, Section 3(2)(a)]

ii. More than twenty (20) minutes of emission time during any twenty-four (24) hour period [401 KAR 63:010, Section 3(2)(b)].

b. See **Section D – Source Emission Limitations and Testing Requirements.**

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 record the amount (Board feet) of wood processed and hours of operation on a monthly basis [401 KAR 52:030, Section 10].

b. The permittee shall monitor the reasonable precautions taken to prevent particulate matter from becoming airborne on a daily basis. [401 KAR 52:030, Section 10]

c. If fugitive dust emissions beyond the lot line of the property are observed, the permittee shall conduct U.S. EPA Reference Method 22 (visual determination of fugitive emissions) observations per Appendix A of 40 C.F.R. Part 60. In lieu of conducting U.S. EPA Reference Method 22, the permittee shall immediately perform a corrective action which results in no visible fugitive dust emissions beyond the lot line of the property [401 KAR 52:030, Section 10].

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Recordkeeping Requirements:

a. The permittee shall keep records of the amount (Board feet) of wood processed and hours of operation on a monthly basis [401 KAR 52:030, Section 10]:

b. The permittee shall maintain a log of the reasonable precautions taken to prevent particulate matter from becoming airborne, on a daily basis. Notation of the operating status, down-time, or relevant weather conditions are acceptable for entry to the log. [401 KAR 52:030, Section 10].

c. The permittee shall maintain a log of the following: [401 KAR 52:030, Section 10].

i. Qualitative fugitive emissions observations conducted (add frequency here) including the date, time, initials of observer, whether any fugitive dust emissions were observed,

ii. Any Reference Method 22 performed and field records identified in Reference Method 22.

iii. Any corrective action taken and the results.

6. Specific Reporting Requirements:

See **Section F – Monitoring, Recordkeeping, and Reporting Requirements**.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 03 **Paved and Unpaved Roads**

Description:
The emission unit encompasses the activities associated with wood transportation from trucks.
Maximum Loading Capacity: 13.89 ton/hr
Control Equipment: Dust suppression system
Construction Date: 1995

APPLICABLE REGULATIONS:
401 KAR 63:010, *Fugitive emissions*

1. **Operating Limitations:**
   a. A person shall not cause, suffer, or allow any material to be handled, processed, transported, or stored; a building or its appurtenances to be constructed, altered, repaired, or demolished; or a road to be used without taking reasonable precaution to prevent particulate matter from becoming airborne. Reasonable precautions shall include, as applicable: [401 KAR 63:010, Section 3(1)]

      i. Use if possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land; [401 KAR 63:010, Section 3(1)(a)]

      ii. Application and maintenance of asphalt, oil, water, or suitable chemicals on roads, materials stockpiles, and other surfaces that can create airborne dusts; [401 KAR 63:010, Section 3(1)(b)]

      iii. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials, or the use of water sprays or other measures to suppress the dust emissions during handling. Adequate containment methods shall be employed during sandblasting or other similar operations; [401 KAR 63:010, Section 3(1)(c)]

      iv. Covering, at all times while in motion, open bodied trucks transporting materials likely to become airborne; [401 KAR 63:010, Section 3(1)(d)]

      v. The maintenance of paved roadways in a clean condition; or [401 KAR 63:010, Section 3(1)(e)]

      vi. The prompt removal of earth or other material from a paved street to which earth or other material has been transported by trucking or earth moving equipment or erosion by water [401 KAR 63:010, Section 3(1)(f)].

   b. If dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape from a building or equipment in such a manner and amount as to cause a nuisance or to violate any administrative regulation, the secretary may, based on the cause, type, or amount of a fugitive emission, order that the building or equipment in which processing, handling and storage are done be tightly closed and ventilated in such a way that all air and gases and air or gas borne material leaving the building or equipment are treated by removal or

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

destruction of air contaminants before discharge to the open air [401 KAR 63:010, Section 3(3)].

c. At all times when in motion, open bodied trucks, operating outside company property, transporting materials likely to become airborne shall be covered [401 KAR 63:010, Section 4(1)].

d. A person shall not cause, suffer, or allow earth or other material being transported by truck or earth moving equipment to be deposited onto a paved street or roadway [401 KAR 63:010, Section 4(3)].

2. Emission Limitations:

A person shall not cause, suffer, or allow visible fugitive dust emissions beyond the lot line of the property on which the emissions originate, as determined by Reference Method 22 of Appendix A in 40 C.F.R. Part 60, for: [401 KAR 63:010, Section 3(2)].

a. More than five (5) minutes of emission time during any sixty (60) minute observation period; or [401 KAR 63:010, Section 3(2)(a)]

b. More than twenty (20) minutes of emission time during any twenty-four (24) hour period [401 KAR 63:010, Section 3(2)(b)].

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 tons of wood transported on a monthly basis [401 KAR 52:030, Section 10].

b. The permittee shall monitor the reasonable precautions taken to prevent particulate matter from becoming airborne on a daily basis [401 KAR 52:030, Section 10].

c. If fugitive dust emissions beyond the lot line of the property are observed, the permittee shall conduct U.S. EPA Reference Method 22 (visual determination of fugitive emissions) observations per Appendix A of 40 C.F.R. Part 60. In lieu of conducting U.S. EPA Reference Method 22, the permittee shall immediately perform a corrective action which results in no visible fugitive dust emissions beyond the lot line of the property [401 KAR 52:030, Section 10].

5. Specific Recordkeeping Requirements:

a. The permittee shall keep records of the tons of wood transported on a monthly basis [401 KAR 52:030, Section 10].

b. The permittee shall maintain a log of the reasonable precautions taken to prevent particulate matter from becoming airborne, on a daily basis. Notation of the operating status, down-

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

time, or relevant weather conditions are acceptable for entry to the log [401 KAR 52:030, Section 10].

c. The permittee shall maintain a log of the following: [401 KAR 52:030, Section 10]

i. Qualitative fugitive emissions observations conducted, including the date, time, initials of observer, whether any fugitive dust emissions were observed,

ii. Any U.S. EPA Reference Method 22 performed and field records identified in Reference Method 22.

iii. Any corrective action taken and the results.

6. <u>Specific Reporting Requirements:</u>
See **Section F – Monitoring, Recordkeeping, and Reporting Requirements**.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 05-06 **Two Indirect Heat Exchangers**

Description:
Two Cleaver Brooks natural gas fired boilers.
Rated Capacity: 3.30 MMBtu/hr each
Manufacturer: Cleaver Brooks
Primary fuel: Natural gas
Construction Date: 1975

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

STATE-ORIGIN REQUIREMENTS:
401 KAR 63:020, *Potentially hazardous matter or toxic substances*

1. **Operating Limitations:**
   During a startup period or a shutdown period, the permittee shall comply with the work practice standards established in 401 KAR 59:015, Section 7. [401 KAR 59:015, Section 7]

   a. The permittee shall comply with 401 KAR 50:055, Section 2(5) [401 KAR 59:015, Section 7(1)(a)].

   b. The frequency and duration of startup periods or shutdown periods shall be minimized by the affected facility [401 KAR 59:015, Section 7(1)(b)].

   c. All reasonable steps shall be taken by the permittee to minimize the impact of emissions on ambient air quality from the affected facility during startup periods and shutdown periods [401 KAR 59:015, Section 7(1)(c)].

   d. The permittee shall document actions, including duration of the startup period, during startup periods and shutdown periods by signed, contemporaneous logs or other relevant evidence [401 KAR 59:015, Section 7(1)(d)].

   e. Startups and shutdowns shall be conducted according to either: [401 KAR 59:015, Section 7(1)(e)]

      i. The manufacturer's recommended procedures; or [401 KAR 59:015, Section 7(1)(e)1.]

      ii. Recommended procedures for a unit of similar design, for which manufacturer's recommended procedures are available, as approved by the cabinet based on documentation provided by the owner or operator of the affected facility [401 KAR 59:015, Section 7(1)(e)2.].

   Compliance Demonstration Method:
   Compliance shall be demonstrated according to **5. Specific Recordkeeping Requirements a**.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations:

a. Particulate matter (PM) emissions shall not exceed 0.49 lb/MMBtu [401 KAR 59:015, Section 4(1)(c)].

Compliance Demonstration Method:
The permittee is assumed to be in compliance with the 401 KAR 59:015 PM emission standard [401 KAR 50:045, Section 4(3)(c)1.].

b. Emissions shall not exceed 20 percent opacity, except: [401 KAR 59:015, Section 4(2)]

i. A maximum of 40 percent opacity shall be allowed for a maximum of 6 consecutive minutes in any 60 consecutive minutes during fire box cleaning or soot blowing; and [401 KAR 59:015, Section 4(2)(b)]

ii. For emissions from an affected facility caused by building a new fire, emissions during the period required to bring the boiler up to operating conditions shall be allowed, if the method used is recommended by the manufacturer and the time does not exceed the manufacturer's recommendations[401 KAR 59:015, Section 4(2)(c)].

Compliance Demonstration Method:
The permittee is assumed to be in compliance with the 401 KAR 59:015 opacity standard [401 KAR 50:045, Section 4(3)(c)1.].

c. Sulfur dioxide (SO_2) emissions from each unit shall not exceed 3.55 lb/MMBtu [401 KAR 59:015 Section, 5(1)(c)2.b.].

Compliance Demonstration Method:
The permittee is assumed to be in compliance with the 401 KAR 59:015 SO2 standard [401 KAR 50:045, Section 4(3)(c)1.].

d. See **Section D – Source Emission Limitations and Testing Requirements** for source-wide PM emission limitations

3. Testing Requirements:
Testing shall be conducted at such times as may be requested by the cabinet [401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1].

4. Specific Monitoring Requirements:
The permittee shall monitor the amount of natural gas (MMscf) combusted on a monthly basis [401 KAR 52:030, Section 10].

5. Specific Recordkeeping Requirements:

a. The permittee shall keep records of the manufacturer's recommended procedures for startup and shutdown, any instance in which the recommended procedures were not followed, and any corrective actions taken [401 KAR 52:030, Section 10].

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

b. The permittee shall record and maintain records of the amount of natural gas (MMscf) combusted on a monthly basis [401 KAR 52:030, Section 10].

6. Specific Reporting Requirements:

See **Section F – Monitoring, Recordkeeping, and Reporting Requirements**.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 07 **Flooring Finishing Line Sander**

Description:
The sander is designated as emission point 40:
Rated Capacity: 5,000 Board Feet / hr
Construction Date: 1999
Control Equipment: Fabric Filter Dust Collector (DC3), Constructed 1999
Control Efficiency: 99.9% Particulate Matter

APPLICABLE REGULATIONS:
401 KAR 59:010, *New process operations*

1. **Operating Limitations:**
   See **Section D – Source Emission Limitations and Testing Requirements**.

2. **Emission Limitations:**
   a. The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than 20 percent opacity [401 KAR 59:010, Section 3(1)(a)].

      Compliance Demonstration Method:
      Compliance shall be demonstrated according to **4. Specific Monitoring Requirements (a).**

   b. The permittee shall not cause, suffer, allow or permit the emission into the open air of particulate matter which is in excess of the quantity specified in the table below: [401 KAR 59:010, Section 3(2)]

P = Process Weight Rate (tons/hr)	E = Allowable Particulate Emission Rate (lb/hr)
$P < 0.5$	$E = 2.34$
$0.5 \leq P \leq 30$	$E = 3.59P^{0.62}$

      Compliance Demonstration Method:
      The permittee is assumed to be in compliance with the limit based on proper operation and maintenance of the associated control device. See **7. Specific Control Equipment Operating Conditions**.

   c. See **Section D – Source Emission Limitations and Testing Requirements.**

3. **Testing Requirements:**
   Testing shall be conducted at such times as may be requested by the cabinet [401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1].

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 U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:030, Section 10].

b. The permittee shall monitor and record the amount (Board feet) of wood processed and hours of operation on a monthly basis [401 KAR 52:030, Section 10].

5. Specific Recordkeeping Requirements:

The permittee shall keep records of the following [401 KAR 52:030, Section 10]:

i. A log of the qualitative visual observations made as specified in **4. Specific Monitoring Requirements a.** including the date, time, initials of observer, whether any emissions were observed (yes/no), and any U.S. EPA Reference Method 9 readings taken;

ii. The amount of wood processed and hours of operation; and

iii. Records regarding maintenance of control equipment.

6. Specific Reporting Requirements:

See **Section F – Monitoring, Recordkeeping, and Reporting Requirements**.

7. Specific Control Equipment Operating Conditions:

a. The fabric filter shall be operated to maintain compliance with permitted emission limitations in accordance with manufacturer's specifications and standard operating practices [401 KAR 52:030, Section 10 & 401 KAR 50:055, Section 2(5)].

b. The permittee shall maintain records regarding the maintenance of the fabric filter [401 KAR 52:030, Section 10].

c. See **Section E – Source Control Equipment Requirements.**

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 08 **Indirect Heat Exchanger**

Description:
Johnson Wood Boiler designated as emission point 08.
Rated Capacity: 11 MMBtu/hr
Manufacturer: Johnson
Primary Fuel: Wood
Control Device: Hurst multi-cyclone fly-ash collector, Constructed 2016
Control Efficiency: 80% for PM
Construction Date: 1975

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

401 KAR 63:002, Section 2(4)(jjjjj), 40 C.F.R. 63.11193 through 63.11237, Tables 1 through 8 (**Subpart JJJJJJ**), *National Emission Standards for hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources*

1. **Operating Limitations:**
   a. The permittee shall achieve compliance with the work practice or management practice standard of both a tune-up and the energy assessment requirement in 40 CFR 63 Subpart JJJJJJ no later than March 21, 2014, according to the applicable provisions in 40 CFR 63.7(a)(2) [40 CFR 63.11196(a) and 40 CFR 63.11210(c)].

   b. The permittee shall comply with each work practice standard, emission reduction measure, and management practice specified in Table 2 to 40 CFR 63 Subpart JJJJJJ, listed below. An energy assessment completed on or after January 1, 2008 that meets or is amended to meet the energy assessment requirements below satisfies the energy assessment requirement. A facility that operates under an energy management program established through energy management systems compatible with ISO 50001, that includes the affected units, also satisfies the energy assessment requirement [40 CFR 63.11201(b)].

      i. Conduct an initial tune-up as specified in 40 CFR 63.11214 [40 CFR 63 Subpart JJJJJJ Table 2, subcategory 6]

         1. If the boiler does not use an oxygen trim system that maintains an optimum air-to-fuel ratio, conduct a tune-up of the boiler biennially as specified in 40 CFR 63.11223 [40 CFR 63.11223(b)]

         2. If the boiler uses an oxygen trim system that maintains an optimum air-to-fuel ratio, conduct a tune-up of the boiler every five years as specified in 40 CFR 63.11223 [40 CFR 63.11223(c)].

      ii. The permittee shall have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in Table 2 to 40 CFR 63 Subpart JJJJJJ satisfies the energy assessment requirement. Energy assessor approval and

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

qualification requirements are waived in instances where past or amended energy assessments are used to meet the energy assessment requirements. A facility that operated under an energy management program developed according to the ENERGY STAR guidelines for energy management or compatible with ISO 50001 for at least 1 year between January 1, 2008, and the compliance date specified in 40 CFR 63.11196 that includes the affected units also satisfies the energy assessment requirement. The energy assessment must include the following with extent of the evaluation for items (1) to (4) appropriate for the on-site technical hours listed in 40 CFR 63.11237: [40 CFR 63 Subpart JJJJJJ Table 2, subcategory 16]

1. A visual inspection of the boiler system,

2. An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints,

3. An inventory of major energy use systems consuming energy from affected boiler(s) and which are under control of the boiler owner or operator,

4. A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage,

5. A list of major energy conservation measures that are within the facility's control,

6. A list of the energy savings potential of the energy conservation measures identified, and

7. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

Compliance Demonstration Method:
The permittee shall demonstrate compliance through the following:

i. For initial compliance, the permittee shall conduct a performance tune-up according to 40 CFR 63.11210(c) and 40 CFR 63.11223(b) and shall submit a signed statement in the Notification of Compliance Status report that indicates that the permittee conducted an initial tune-up of the boiler [40 CFR 63.11214(b)].

ii. For initial compliance, the permittee shall submit a signed certification in the Notification of Compliance Status report that an energy assessment of the boiler and its energy use systems was completed according to Table 2 to 40 CFR 63 Subpart JJJJJJ and that the assessment is an accurate depiction of the facility at the time of the assessment [40 CFR 63.11214(c)].

iii. The permittee shall conduct a performance tune-up according to 40 CFR 63.11223(b) and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

compliance. The permittee shall conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up [40 CFR 63.11223(a)].

iv. The permittee shall conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in 40 CFR 63.11223(b)(1) through (7). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up [40 CFR 63.11223(b)].

v. Boilers with an oxygen trim system that maintains an optimum air-to-fuel ratio that would otherwise be subject to a biennial tune-up must conduct a tune-up of the boiler every 5 years as specified in 40 CFR 63.11223(b)(1) through (7). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. The permittee may delay the burner inspection specified in 40 CFR 63.11223(b)(1) and inspection of the system controlling the air-to-fuel ratio specified in 40 CFR 63.11223(b)(3) until the next scheduled unit shutdown, but must inspect each burner and system controlling the air-to-fuel ratio at least once every 72 months [40 CFR 63.11223(c)].

c. At all times, the permittee shall operate and maintain the boiler, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require 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 that 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 63.11205(a)].

d. See **Section D – Source Emission Limitations and Testing Requirements.**

2. <u>Emission Limitations:</u>

a. Particulate matter (PM) emissions shall not exceed 0.49 lb/MMBtu [401 KAR 59:015, Section 4(1)(c)].

Compliance Demonstration Method:
The unit is assumed to be in compliance with the applicable 401 KAR 59:015 PM emission standard while the control device is in operation [401 KAR 52:030, Section 10].

b. Emissions shall not exceed 20 percent opacity, except: [401 KAR 59:015, Section 4(2)]

i. A maximum of 40 percent opacity shall be allowed for a maximum of 6 consecutive minutes in any 60 consecutive minutes during fire box cleaning or soot blowing; and [401 KAR 59:015, Section 4(2)(b)]

ii. For emissions from an affected facility caused by building a new fire, emissions during the period required to bring the boiler up to operating conditions shall be allowed, if

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

the method used is recommended by the manufacturer and the time does not exceed the manufacturer's recommendations[401 KAR 59:015, Section 4(2)(c)].

Compliance Demonstration Method:
Compliance shall be demonstrated according to **4. Specific Monitoring Requirements (b)**.

c. Sulfur dioxide (SO_2) emissions from each unit shall not exceed 4.79 lb/MMBtu [401 KAR 59:015 Section, 5(1)(c)3.b.].

Compliance Demonstration Method:
The permittee is assumed to be in compliance with the 401 KAR 59:015 SO_2 standard while burning wood based on AP-42 emission factors [401 KAR 50:045, Section 4(3)(c)1.].

3. Testing Requirements:
Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1].

4. Specific Monitoring Requirements:
a. The permittee shall monitor the amount of wood material combusted (tons) on a monthly basis [401 KAR 52:030, Section 10.

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 U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:030, Section 10].

5. Specific Recordkeeping Requirements:
a. The permittee shall maintain the following records specified below: [40 CFR 63.11225(c)]

i. As required in 40 CFR 63.10(b)(2)(xiv), the permittee shall keep a copy of each notification and report that the permittee submitted to comply with this subpart and all documentation supporting any Initial Notification or Notification of Compliance Status that the permittee submitted [40 CFR 63.11225(c)(1)].

ii. The permittee shall keep records to document conformance with the work practices, emission reduction measures, and management practices required by 40 CFR 63.11214 and 40 CFR 63.11223 as specified in 40 CFR 63.11225(c)(2)(i) through (vi) [40 CFR 63.11225(c)(2)].

1. Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned [40 CFR 63.11225(c)(2)(i)].

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2. For each boiler required to conduct an energy assessment, the permittee must keep a copy of the energy assessment report [40 CFR 63.11225(c)(2)(iii)].

iii. Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment [40 CFR 63.11225(c)(4)].

iv. Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation [40 CFR 63.11225(c)(5)].

v. The permittee shall keep the records of all inspection and monitoring data required by 40 CFR 63.11221 and 63.11222, and the information identified in 40 CFR 63.11225(c)(6)(i) through (vi) of this section for each required inspection or monitoring.

1. The date, place, and time of the monitoring event [40 CFR 63.11225(c)(6)(i)].

2. Person conducting the monitoring [40 CFR 63.11225(c)(6)(ii)].

3. Technique or method used [40 CFR 63.11225(c)(6)(iii)].

4. Operating conditions during the activity [40 CFR 63.11225(c)(6)(iv)].

5. Results, including the date, time, and duration of the period from the time the monitoring indicated a problem to the time that monitoring indicated proper operation [40 CFR 63.11225(c)(6)(v)].

6. Maintenance or corrective action taken (if applicable) [40 CFR 63.11225(c)(6)(vi)].

b. Records must be in a form suitable and readily available for expeditious review. The permittee shall keep each record for 5 years following the date of each recorded action. The permittee shall keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The permittee may keep the records off site for the remaining 3 years [40 CFR 63.11225(d)].

c. The permittee shall maintain records of the amount of wood material combusted (tons) on a monthly basis [401 KAR 52:030, Section 10]

d. The permittee shall maintain a log of the qualitative visual observations made as specified in **4. Specific Monitoring Requirements b.** including the date, time, initials of observer, whether any emissions were observed (yes/no), and any U.S. EPA Reference Method 9 readings taken [401 KAR 52:030, Section 10].

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

6. Specific Reporting Requirements:

a. The permittee shall submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply by the dates specified in those sections except an Initial Notification must be submitted no later than January 20, 2014 or within 120 days after the source becomes subject to the standard [40 CFR 63.11225(a)(1)]

b. The permittee shall submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin [40 CFR 63.11225(a)(3)].

c. The permittee shall prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225, paragraphs (b)(1) through (4). The permittee shall submit the report by March 15 if any instance described by 40 CFR 63.11225(b)(3) of this section occurred. For boilers that are subject only to a requirement to conduct a biennial or 5-year tune-up according to 40 CFR 63.11223(a) and not subject to emission limits or operating limits, the permittee may prepare only a biennial or 5-year compliance report as specified in paragraphs (b)(1) and (2) of this section.

d. See **Section F – Monitoring, Recordkeeping, and Reporting Requirements**.

7. Specific Control Equipment Operating Conditions:

a. The Multi Cyclone shall be operated to maintain compliance with permitted emission limitations in accordance with manufacturer's specifications and standard operating practices [401 KAR 52:030, Section 10 and 401 KAR 50:055].

b. Records regarding the maintenance of the Multi Clone shall be maintained [401 KAR 52:030, Section 10].

c. See **Section E – Source Control Equipment Requirements**.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 09 **Indirect Heat Exchanger**

Description:
Hurst Wood Boiler designated as emission point 09.
Rated Capacity: 28.7 MMBtu/hr
Manufacturer: Hurst
Primary Fuel: Wood
Control Device: Hurst multi-cyclone fly-ash collector, Constructed 2016
Control Efficiency: 80% for PM
Construction Date: 2001

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

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

401 KAR 63:002, Section 2(4)(jjjjj), 40 C.F.R. 63.11193 through 63.11237, Tables 1 through 8 (**Subpart JJJJJJ**), *National Emission Standards for hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources*

1. **Operating Limitations:**
   a. The permittee shall achieve compliance with the work practice or management practice standard of both a tune-up and the energy assessment requirement in 40 CFR 63 Subpart JJJJJJ no later than March 21, 2014, according to the applicable provisions in 40 CFR 63.7(a)(2) [40 CFR 63.11196(a) and 40 CFR 63.11210(c)].

   b. The permittee shall comply with each work practice standard, emission reduction measure, and management practice specified in Table 2 to 40 CFR 63 Subpart JJJJ, listed below. An energy assessment completed on or after January 1, 2008 that meets or is amended to meet the energy assessment requirements below satisfies the energy assessment requirement. A facility that operates under an energy management program established through energy management systems compatible with ISO 50001, that includes the affected units, also satisfies the energy assessment requirement [40 CFR 63.11201(b)].

      i. Conduct an initial tune-up as specified in 40 CFR 63.11214 [40 CFR 63 Subpart JJJJJJ Table 2, subcategory 6]

         1. If the boiler does not use an oxygen trim system that maintains an optimum air-to-fuel ratio, conduct a tune-up of the boiler biennially as specified in 40 CFR 63.11223 [40 CFR 63.11223(b)]

         2. If the boiler uses an oxygen trim system that maintains an optimum air-to-fuel ratio, conduct a tune-up of the boiler every five years as specified in 40 CFR 63.11223 [40 CFR 63.11223(c)].

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ii. The permittee shall have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in Table 2 to 40 CFR 63 Subpart JJJJJJ satisfies the energy assessment requirement. Energy assessor approval and qualification requirements are waived in instances where past or amended energy assessments are used to meet the energy assessment requirements. A facility that operated under an energy management program developed according to the ENERGY STAR guidelines for energy management or compatible with ISO 50001 for at least 1 year between January 1, 2008, and the compliance date specified in 40 CFR 63.11196 that includes the affected units also satisfies the energy assessment requirement. The energy assessment must include the following with extent of the evaluation for items (1) to (4) appropriate for the on-site technical hours listed in 40 CFR 63.11237: [40 CFR 63 Subpart JJJJJJ Table 2, subcategory 16]

1. A visual inspection of the boiler system,

2. An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints,

3. An inventory of major energy use systems consuming energy from affected boiler(s) and which are under control of the boiler owner or operator,

4. A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage,

5. A list of major energy conservation measures that are within the facility's control,

6. A list of the energy savings potential of the energy conservation measures identified, and

7. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

Compliance Demonstration Method:
The permittee shall demonstrate compliance through the following:

i. For initial compliance, the permittee shall conduct a performance tune-up according to 40 CFR 63.11210(c) and 40 CFR 63.11223(b) and shall submit a signed statement in the Notification of Compliance Status report that indicates that the permittee conducted an initial tune-up of the boiler [40 CFR 63.11214(b)].

ii. For initial compliance, the permittee shall submit a signed certification in the Notification of Compliance Status report that an energy assessment of the boiler and its energy use systems was completed according to Table 2 to 40 CFR 63 Subpart JJJJJJ

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

and that the assessment is an accurate depiction of the facility at the time of the assessment [40 CFR 63.11214(c)].

iii. The permittee shall conduct a performance tune-up according to 40 CFR 63.11223(b) and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. The permittee shall conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up [40 CFR 63.11223(a)].

iv. The permittee shall conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in 40 CFR 63.11223(b)(1) through (7). Each biennial tune-up must be conducted no more than 25 months after the previous tune-up [40 CFR 63.11223(b)].

v. Boilers with an oxygen trim system that maintains an optimum air-to-fuel ratio that would otherwise be subject to a biennial tune-up must conduct a tune-up of the boiler every 5 years as specified in 40 CFR 63.11223(b)(1) through (7). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. The permittee may delay the burner inspection specified in 40 CFR 63.11223(b)(1) and inspection of the system controlling the air-to-fuel ratio specified in 40 CFR 63.11223(b)(3) until the next scheduled unit shutdown, but must inspect each burner and system controlling the air-to-fuel ratio at least once every 72 months [40 CFR 63.11223(c)].

c. At all times, the permittee shall operate and maintain the boiler, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require 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 that 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 63.11205(a)].

d. See **Section D – Source Emission Limitations and Testing Requirements.**

2. <u>Emission Limitations:</u>

a. At all times the affected boiler is operating, except during periods of startup and shutdown as defined in 40 CFR 63.11237, the permittee shall maintain opacity to less than or equal to 10 percent opacity (daily block average) [40 CFR 63.11201(c) and (d), 40 CFR 63 Subpart JJJJJJ Table 3 subcategory 5].

b. Particulate matter (PM) emissions shall not exceed 0.39 lb/MMBtu [401 KAR 59:015, Section 4(1)(c)].

Compliance Demonstration Method:
Compliance shall be demonstrated according to **3. <u>Testing Requirements</u>**.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

c. Emissions shall not exceed 20 percent opacity, except: [401 KAR 59:015, Section 4(2)]

i. A maximum of 40 percent opacity shall be allowed for a maximum of 6 consecutive minutes in any 60 consecutive minutes during fire box cleaning or soot blowing; and [401 KAR 59:015, Section 4(2)(b)]

ii. For emissions from an affected facility caused by building a new fire, emissions during the period required to bring the boiler up to operating conditions shall be allowed, if the method used is recommended by the manufacturer and the time does not exceed the manufacturer's recommendations[401 KAR 59:015, Section 4(2)(c)].

Compliance Demonstration Method:
Compliance shall be demonstrated according to **4. Specific Monitoring Requirements (b)**.

d. Sulfur dioxide (SO_2) emissions from each unit shall not exceed 2.73 lb/MMBtu [401 KAR 59:015 Section, 5(1)(c)3.b.].

Compliance Demonstration Method:
The permittee is assumed to be in compliance with the 401 KAR 59:015 SO_2 standard while burning wood based on AP-42 emission factors [401 KAR 50:045, Section 4(3)(c)1.].

e. See **Section D – Source Emission Limitations and Testing Requirements**.

3. Testing Requirements:
Testing shall be conducted at such times as may be requested by the Cabinet [401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1].

4. Specific Monitoring Requirements:

a. The permittee shall monitor the amount of wood material combusted (tons) on a monthly basis [401 KAR 52:030, Section 10].

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 U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:030, Section 10].

5. Specific Recordkeeping Requirements:

a. The permittee shall maintain the following records specified below: [40 CFR 63.11225(c)]

i. As required in 40 CFR 63.10(b)(2)(xiv), the permittee shall keep a copy of each notification and report that the permittee submitted to comply with this subpart and all

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

documentation supporting any Initial Notification or Notification of Compliance Status that the permittee submitted [40 CFR 63.11225(c)(1)].

ii. The permittee shall keep records to document conformance with the work practices, emission reduction measures, and management practices required by 40 CFR 63.11214 and 40 CFR 63.11223 as specified in 40 CFR 63.11225(c)(2)(i) through (vi) [40 CFR 63.11225(c)(2)].

1. Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned [40 CFR 63.11225(c)(2)(i)].

2. For each boiler required to conduct an energy assessment, the permittee must keep a copy of the energy assessment report [40 CFR 63.11225(c)(2)(iii)].

iii. Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment [40 CFR 63.11225(c)(4)].

iv. Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation [40 CFR 63.11225(c)(5)].

v. The permittee shall keep the records of all inspection and monitoring data required by 40 CFR 63.11221 and 63.11222, and the information identified in 40 CFR 63.11225(c)(6)(i) through (vi) of this section for each required inspection or monitoring.

1. The date, place, and time of the monitoring event [40 CFR 63.11225(c)(6)(i)].

2. Person conducting the monitoring [40 CFR 63.11225(c)(6)(ii)].

3. Technique or method used [40 CFR 63.11225(c)(6)(iii)].

4. Operating conditions during the activity [40 CFR 63.11225(c)(6)(iv)].

5. Results, including the date, time, and duration of the period from the time the monitoring indicated a problem to the time that monitoring indicated proper operation [40 CFR 63.11225(c)(6)(v)].

6. Maintenance or corrective action taken (if applicable) [40 CFR 63.11225(c)(6)(vi)].

b. Records must be in a form suitable and readily available for expeditious review. The permittee shall keep each record for 5 years following the date of each recorded action. The permittee shall keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

the date of each recorded action. The permittee may keep the records off site for the remaining 3 years [40 CFR 63.11225(d)].

c. The permittee shall maintain records of the amount of wood material combusted (tons) on a monthly basis [401 KAR 52:030, Section 10].

d. The permittee shall maintain a log of the qualitative visual observations made as specified in **4. Specific Monitoring Requirements b.** including the date, time, initials of observer, whether any emissions were observed (yes/no), and any U.S. EPA Reference Method 9 readings taken [401 KAR 52:030, Section 10].

6. Specific Reporting Requirements:

a. The permittee shall submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply by the dates specified in those sections except an Initial Notification must be submitted no later than January 20, 2014 or within 120 days after the source becomes subject to the standard [40 CFR 63.11225(a)(1)]

b. The permittee shall submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin [40 CFR 63.11225(a)(3)].

c. The permittee shall prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in 40 CFR 63.11225, paragraphs (b)(1) through (4). The permittee shall submit the report by March 15 if any instance described by 40 CFR 63.11225(b)(3) of this section occurred. For boilers that are subject only to a requirement to conduct a biennial or 5-year tune-up according to 40 CFR 63.11223(a) and not subject to emission limits or operating limits, the permittee may prepare only a biennial or 5-year compliance report as specified in paragraphs (b)(1) and (2) of this section.

d. See **Section F – Monitoring, Recordkeeping, and Reporting Requirements**.

7. Specific Control Equipment Operating Conditions:

a. The Multi Cyclone shall be operated to maintain compliance with permitted emission limitations in accordance with manufacturer's specifications and standard operating practices [401 KAR 52:030, Section 10 and 401 KAR 50:055].

b. Records regarding the maintenance of the Multi Clone shall be maintained [401 KAR 52:030, Section 10].

c. See **Section E – Source Control Equipment Requirements**.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 10 **Stain Roller Station**

Description:
Stain Roller Coating Station designated as emission point 10.
Rated Capacity: 3 gallon/hr
Construction Date: 1999

APPLICABLE REGULATIONS:
401 KAR 63:020, *Potentially hazardous matter or toxic substances* [State-Origin Requirement]

1. **Operating Limitations:**
   None

2. **Emission Limitations:**
   a. Persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. The permittee shall not allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants [401 KAR 63:020, Section 3].

   Compliance Demonstration Method:
   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.

   b. See **Section D – Source Emission Limitations and Testing Requirements.**

3. **Testing Requirements:**
   Testing shall be conducted at such times as may be requested by the cabinet in accordance with 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1.

4. **Specific Monitoring Requirements:**
   a. The permittee shall monitor all adhesives, stains, coatings, sealers, thinners, and clean-up solutions used, including the type, amount, VOC content by weight percent, less any water and/or exempt solvent (including insignificant activities) on a monthly basis [401 KAR 52:030, Section 10].

   b. The permittee shall monitor all materials containing HAP(s) used for the above affected facilities, including the product type, amount used and the weight percentages of all individual HAPs on a monthly basis [401 KAR 52:030, Section 10]

5. **Specific Recordkeeping Requirements:**
   a. The permittee shall keep monthly records of all adhesives, stains, coatings, sealers, thinners, and clean-up solutions used, including the type, amount, VOC content by weight

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percent, less any water and/or exempt solvent (including insignificant activities) [401 KAR 52:030, Section 10].

b. The permittee shall keep monthly records of all materials containing HAP(s) used for the above affected facilities, including the product type, amount used and the weight percentages of all individual HAPs [401 KAR 52:030, Section 10].

c. VOC and HAP emissions shall be calculated monthly per Section D of this permit, and every month, a new 12-month rolling total for VOC and HAP emissions shall be calculated [401 KAR 52:030, Section 10].

d. All records shall be retained by the source for a period of five years. These records, as well as purchase orders and invoices for all VOC/HAP containing materials, shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality [401 KAR 52:030, Section 10].

6. <u>Specific Reporting Requirements:</u>

The permittee shall report the following on a semi-annual basis: [401 KAR 52:030, Section 10]

i. Any deviations from requirements of Section B;

ii. The VOC emissions for each month;

iii. The individual HAP emissions for each month;

iv. The combined HAP's emission for each month;

v. The rolling 12 month total for VOC during each month;

vi. The rolling 12 month total of individual HAP's for each month; and

vii. The rolling 12 month total of combined HAP's for each month ending.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 11 **Propane Fired Emergency Generator**

Description:
Propane fueled emergency generator
Rated Output: 48 HP (25kW) (0.12 MMBtu/hr) (25KVA), 3600 RPM

Manufacturer:	Generac
Model number:	QT02515ANSX
Model year:	2013
Engine Family:	DGNXB01.52NL
EPA Certificate No.:	DGNXB01.52NL-001
Construction Date:	2014

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

401 KAR 63:002, Section 2(4)(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 shall permittee shall meet the requirements of 40 CFR Part 63 by meeting the requirements of 40 CFR 60, Subpart JJJJ. No further requirements apply for the engine under 40 CFR Part 63 [40 CFR 63.6590(a)(2)(iii) and 63.6590(c)(1)].

   b. The permittee shall operate the emergency stationary ICE according to the requirements outlined in 40 CFR 60.4243(d)(1) through (3). In order for the engine to be considered an emergency stationary ICE under 40 CFR 60, Subpart JJJJ, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 60.4243(d)(1) through (3) is prohibited. If the engine is not operated according to the requirements in 40 CFR 60.4243(d)(1) through (3), the engine will not be considered an emergency engine under 40 CFR 60, Subpart JJJJ and shall meet all requirements for non-emergency engines: [40 CFR 60.4243(d)]:

      i. There is no time limit on the use of emergency stationary ICE in emergency situations [40 CFR 60.4243(d)(1)].

      ii. The permittee may operate the emergency stationary ICE for the purpose specified in 40 CFR 60.4243(d)(2)(i) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR 60.4243(d)(3) counts as parts of the 100 hours per calendar year allowed by this paragraph [40 CFR 60.4243(d)(2)].

         1. The permittee may operate the emergency stationary ICE 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

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

insurance company associated with the engine. The permittee 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 permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year [40 CFR 60.4243(d)(2)(i)].

iii. 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 40 CFR 60.4243(d)(2) of this section. Except as provided in 40 CFR 60.4243(d)(3)(i), the 50 hours per 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 60.4243(d)(3)].

1. The50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met: [40 CFR 60.4243(d)(3)(i)]

A. The engine is dispatched by the local balancing authority or local transmission and distribution system operator; [40 CFR 60.4243(d)(3)(i)(A)]

B. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region [40 CFR 60.4243(d)(3)(i)(B)].

C. The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines [40 CFR 60.4243(d)(3)(i)(C)].

D. The power is provided only to the facility itself or to support the local transmission and distribution system [40 CFR 60.4243(d)(3)(i)(D)].

E. The permittee identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator [40 CFR 60.4243(d)(3)(i)(E)].

2. <u>Emission Limitations:</u>

a. The permittee shall comply with the requirements in Table 1 of 40 CFR 60 Subpart JJJJ [40 CFR 60.4233(d)].

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Compliance Demonstration Method:

i. The permittee shall demonstrate compliance by purchasing an engine certified according to the procedures specified in 40 CFR 60 Subpart JJJJ, and operating and maintaining the engine and control device(s) according to the manufacturer's emission-related written instructions, and by keeping records of conducted maintenance [40 CFR 60.4243(b)(1)].

ii. If the permittee does not operate and maintain the engine and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine, and the permittee must demonstrate compliance according to 40 CFR 60.4243(a)(2)(i) through (iii) of this section, as appropriate [40 CFR 60.4243(a)(2)].

1. The permittee shall keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. No performance testing is required by the owner or operator [40 CFR 60.4243(a)(2)(i)].

b. Emission standards as required in 40 CFR 60.4233(d) shall be maintained over the entire life of the engine [40 CFR 60.4234].

3. <u>Testing Requirements:</u>

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

4. <u>Specific Monitoring Requirements:</u>

a. If the permittee operates an emergency stationary SI internal combustion engine that is less than 130 HP, was built on or after July 1, 2008, and does not meet the standards applicable to non-emergency engines, the permittee must install a non-resettable hour meter [40 CFR 60.4237(c)].

b. The permittee shall monitor the propane fuel consumption (MMscf), hours of operation, and the reason the engine was in operation on a monthly basis [401 KAR 52:030, Section 10].

5. <u>Specific Recordkeeping Requirements:</u>

a. The permittee shall maintain records of the propane fuel consumption (MMscf), hours of operation and the intent of operation on a monthly basis [401 KAR 52:030, Section 10].

b. The permittee shall keep the following records regarding stationary SI ICE as described in 40 CFR 60.4245(a):

i. All notifications submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification [40 CFR 60.4245(a)(1)].

ii. Maintenance conducted on the engine [40 CFR 60.4245(a)(2)].

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

iii. If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 1048, 1054, and 1060, as applicable [40 CFR 60.4245(a)(3)].

iv. If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to 40 CFR 60.4243(a)(2), documentation that the engine meets the emission standards [40 CFR 60.4245(a)(4)].

c. If the permittee operates a stationary SI emergency ICE greater than 25 HP and less than 130 HP manufactured on or after July 1, 2008, that does not meet the standards applicable to non-emergency engines, 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 [40 CFR 60.4245(b)].

6. Specific Reporting Requirements:
See **Section F – Monitoring, Recordkeeping, and Reporting Requirements**.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 12 **Pre-Wash Line**

Description:
Prewash line consisting of a sander and roll coater to apply stains to pre-finished hardwood flooring.
Costa sander, model number 70 CCT 1150
Roll Coater Rated Capacity: 1.03 gallon/hr
Control Device: Foust Metal Works, Inc. fabric filter dust collector (DC5), Constructed 2/1/2020
Control Efficiency: 99.9%
Construction Date: 05/2024

APPLICABLE REGULATIONS:
401 KAR 59:010, *New process operations*

1. **Operating Limitations:**
   See **Section D – Source Emission Limitations and Testing Requirements.**

2. **Emission Limitations:**
   a. The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than 20 percent opacity [401 KAR 59:010, Section 3(1)(a)].

      Compliance Demonstration Method:
      Compliance shall be demonstrated according to **4. Specific Monitoring Requirements (a)**.

   b. The permittee shall not cause, suffer, allow or permit the emission into the open air of particulate matter which is in excess of the quantity specified in the table below: [401 KAR 59:010, Section 3(2)]

P = Process Weight Rate (tons/hr)	E = Allowable Particulate Emission Rate (lb/hr)
$P < 0.5$	$E = 2.34$
$0.5 \leq P \leq 30$	$E = 3.59P^{0.62}$
$P>30$	$E=17.31P^{0.16}$

      Compliance Demonstration Method:
      The permittee is assumed to be in compliance with the limit based on proper operation and maintenance of the associated control device. See **7. Specific Control Equipment Operating Conditions**.

   c. See **Section D – Source Emission Limitations and Testing Requirements.**

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. Testing Requirements:

Testing shall be conducted at such times as may be requested by the cabinet [401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1].

4. Specific Monitoring Requirements:

a. The permittee shall monitor all adhesives, stains, coatings, sealers, thinners, and clean-up solutions used, including the type, amount, VOC content by weight percent, less any water and/or exempt solvent (including insignificant activities) on a monthly basis [401 KAR 52:030, Section 10].

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 U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:030, Section 10].

5. Specific Recordkeeping Requirements:

a. The permittee shall keep monthly records of all adhesives, stains, coatings, sealers, thinners, and clean-up solutions used, including the type, amount, VOC content by weight percent, less any water and/or exempt solvent (including insignificant activities) [401 KAR 52:030, Section 10].

b. VOC emissions shall be calculated monthly per Section D of this permit, and every month, a new 12-month rolling total for VOC emissions shall be calculated [401 KAR 52:030, Section 10].

c. All records shall be retained by the source for a period of five years. These records, as well as purchase orders and invoices for all VOC containing materials, shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality [401 KAR 52:030, Section 10].

d. The permittee shall maintain a log of the qualitative visual observations made as specified in **4. Specific Monitoring Requirements b.** including the date, time, initials of observer, whether any emissions were observed (yes/no), and any U.S. EPA Reference Method 9 readings taken [401 KAR 52:030, Section 10].

6. Specific Reporting Requirements:

The permittee shall report the following on a semi-annual basis: [401 KAR 52:030, Section 10]

i. Any deviations from requirements of Section B;

ii. The VOC emissions for each month;

iii. The rolling 12 month total for VOC during each month;

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

7. Specific Control Equipment Operating Conditions:

a. The fabric filter shall be operated to maintain compliance with permitted emission limitations in accordance with manufacturer's specifications and standard operating practices [401 KAR 52:030, Section 10 & 401 KAR 50:055, Section 2(5)].

b. The permittee shall maintain records regarding the maintenance of the fabric filter [401 KAR 52:030, Section 10].

c. See **Section E – Source Control Equipment Requirements.**

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 13 **Engineered Line**

Description:
Hardwood line used to make engineered hardwood products (laminated hardwood flooring products). Consists of woodworking equipment specified in the table below and a series of glue spreaders to apply hot melt glue.

Process ID	Name	Description	Manufacturer & Model No.	Construction Date
13A	Core Rip Saw	Core sawing	Paul Saw K34G	05/2024
13B	Core Sander	Core sanding	Crosscut Solutions CS14ML	05/2024
13C	Press	Press	Eagle	05/2024
13D	Bottom Sander	Sands bottom of product	N/A	05/2024
13E	Top Sander	Sands top of product	Costa K CCT 1350	05/2024
13F	Side Match	Matches sides of product together	Homag FPR 225	05/2024
13G	Chop Saw	Saw	Crosscut Solutions CS14ML	05/2024
13H	End Match	Matches ends of product together	Hasko HESM-C	05/2024
13I	Defect Chop Saws	Removes defects from product	Weining Opticut 200	05/2024
13J	Splitter Saws	Splits product	Wintersteiger DSG Sonic, Wintersteiger DSG 200, Ogden Power Plus, Shroeder S-4/2 XL	05/2024
13K	Face Chop Saws	Saws	N/A	05/2024
13L	Planer	Planer	N/A	05/2024

Hot Melt Glue Rated Capacity: 1.22 gallon/hr
Control Device: Foust Metal Works, Inc. fabric filter dust collector (DC6), Constructed 5/27/2024
Control Efficiency: 99.9%
Construction Date: 05/2024

APPLICABLE REGULATIONS:
401 KAR 59:010, *New process operations*

1. **Operating Limitations:**
   See **Section D – Source Emission Limitations and Testing Requirements.**

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations:

a. The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than 20 percent opacity [401 KAR 59:010, Section 3(1)(a)].

Compliance Demonstration Method:
Compliance shall be demonstrated according to **4. Specific Monitoring Requirements (a)**.

b. The permittee shall not cause, suffer, allow or permit the emission into the open air of particulate matter which is in excess of the quantity specified in the table below: [401 KAR 59:010, Section 3(2)]

P = Process Weight Rate (tons/hr)	E = Allowable Particulate Emission Rate (lb/hr)
$P < 0.5$	$E = 2.34$
$0.5 \leq P \leq 30$	$E = 3.59P^{0.62}$
$P>30$	$E=17.31P^{0.16}$

Compliance Demonstration Method:
The permittee is assumed to be in compliance with the limit based on proper operation and maintenance of the associated control device. See **7. Specific Control Equipment Operating Conditions**.

c. See **Section D – Source Emission Limitations and Testing Requirements.**

3. Testing Requirements:
Testing shall be conducted at such times as may be requested by the cabinet [401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1].

4. Specific Monitoring Requirements:

a. The permittee shall monitor all adhesives, stains, coatings, sealers, thinners, and clean-up solutions used, including the type, amount, VOC content by weight percent, less any water and/or exempt solvent (including insignificant activities) on a monthly basis [401 KAR 52:030, Section 10].

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 U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume) [401 KAR 52:030, Section 10].

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Recordkeeping Requirements:

a. The permittee shall keep monthly records of all adhesives, stains, coatings, sealers, thinners, and clean-up solutions used, including the type, amount, VOC content by weight percent, less any water and/or exempt solvent [401 KAR 52:030, Section 10].

b. VOC emissions shall be calculated monthly per Section D of this permit, and every month, a new 12-month rolling total for VOC emissions shall be calculated [401 KAR 52:030, Section 10].

c. The permittee shall maintain a log of the qualitative visual observations made as specified in **4. Specific Monitoring Requirements b.** including the date, time, initials of observer, whether any emissions were observed (yes/no), and any U.S. EPA Reference Method 9 readings taken [401 KAR 52:030, Section 10].

d. All records shall be retained by the source for a period of five years. These records, as well as purchase orders and invoices for all VOC containing materials, shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality [401 KAR 52:030, Section 10].

6. Specific Reporting Requirements:

The permittee shall report the following on a semi-annual basis: [401 KAR 52:030, Section 10]

i. Any deviations from requirements of Section B;

ii. The VOC emissions for each month;

iii. The rolling 12 month total for VOC during each month;

7. Specific Control Equipment Operating Conditions:

a. The fabric filter shall be operated to maintain compliance with permitted emission limitations in accordance with manufacturer's specifications and standard operating practices [401 KAR 52:030, Section 10 & 401 KAR 50:055, Section 2(5)].

b. The permittee shall maintain records regarding the maintenance of the fabric filter [401 KAR 52:030, Section 10].

c. See **Section E – Source Control Equipment Requirements.**

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 14 **Finish Line Drying Oven**

Description:
Finish Line Drying Oven (steam). Backup natural gas burner.
Rated Capacity: 1.2 MMBtu/hr
Primary fuel: Natural gas
Construction Date: 1999

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

STATE-ORIGIN REQUIREMENTS:
401 KAR 63:020, *Potentially hazardous matter or toxic substances*

1. **Operating Limitations:**
   During a startup period or a shutdown period, the permittee shall comply with the work practice standards established in 401 KAR 59:015, Section 7. [401 KAR 59:015, Section 7]

   a. The permittee shall comply with 401 KAR 50:055, Section 2(5) [401 KAR 59:015, Section 7(1)(a)].

   b. The frequency and duration of startup periods or shutdown periods shall be minimized by the affected facility [401 KAR 59:015, Section 7(1)(b)].

   c. All reasonable steps shall be taken by the permittee to minimize the impact of emissions on ambient air quality from the affected facility during startup periods and shutdown periods [401 KAR 59:015, Section 7(1)(c)].

   d. The permittee shall document actions, including duration of the startup period, during startup periods and shutdown periods by signed, contemporaneous logs or other relevant evidence [401 KAR 59:015, Section 7(1)(d)].

   e. Startups and shutdowns shall be conducted according to either: [401 KAR 59:015, Section 7(1)(e)]

      i. The manufacturer's recommended procedures; or [401 KAR 59:015, Section 7(1)(e)1.]

      ii. Recommended procedures for a unit of similar design, for which manufacturer's recommended procedures are available, as approved by the cabinet based on documentation provided by the owner or operator of the affected facility [401 KAR 59:015, Section 7(1)(e)2.].

   Compliance Demonstration Method:
   Compliance shall be demonstrated according to **5. Specific Recordkeeping Requirements a**.

2. **Emission Limitations:**
   a. Particulate matter (PM) emissions shall not exceed 0.48 lb/MMBtu [401 KAR 59:015, Section 4(1)(c)].

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Compliance Demonstration Method:
The permittee is assumed to be in compliance with the 401 KAR 59:015 PM emission standard [401 KAR 50:045, Section 4(3)(c)1.].

b. Emissions shall not exceed 20 percent opacity, except: [401 KAR 59:015, Section 4(2)]

i. A maximum of 40 percent opacity shall be allowed for a maximum of 6 consecutive minutes in any 60 consecutive minutes during fire box cleaning or soot blowing; and [401 KAR 59:015, Section 4(2)(b)]

ii. For emissions from an affected facility caused by building a new fire, emissions during the period required to bring the boiler up to operating conditions shall be allowed, if the method used is recommended by the manufacturer and the time does not exceed the manufacturer's recommendations [401 KAR 59:015, Section 4(2)(c)].

Compliance Demonstration Method:
The permittee is assumed to be in compliance with the 401 KAR 59:015 opacity standard [401 KAR 50:045, Section 4(3)(c)1.].

c. Sulfur dioxide (SO_2) emissions from each unit shall not exceed 3.32 lb/MMBtu [401 KAR 59:015 Section, 5(1)(c)2.b.].

Compliance Demonstration Method:
The permittee is assumed to be in compliance with the 401 KAR 59:015 SO2 standard [401 KAR 50:045, Section 4(3)(c)1.].

d. Persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. Evaluation of such facilities as to adequacy of controls and/or procedures and emission potential will be made on an individual basis by the cabinet. [401 KAR 63:020, Section 3]

Compliance Demonstration Method:
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.

e. See **Section D – Source Emission Limitations and Testing Requirements** for source-wide PM emission limitations

3. <u>Testing Requirements:</u>
Testing shall be conducted at such times as may be requested by the cabinet [401 KAR 59:005, Section 2(2) and 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 the amount of natural gas (MMscf) combusted on a monthly basis [401 KAR 52:030, Section 10].

5. Specific Recordkeeping Requirements:

a. The permittee shall keep records of the manufacturer's recommended procedures for startup and shutdown, any instance in which the recommended procedures were not followed, and any corrective actions taken [401 KAR 52:030, Section 10].

b. The permittee shall record and maintain records of the amount of natural gas (MMscf) combusted on a monthly basis [401 KAR 52:030, Section 10].

6. Specific Reporting Requirements:

See **Section F – Monitoring, Recordkeeping, and Reporting Requirements**.

SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:030, 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.

	Description	Generally Applicable Regulation
1.	Finish Line Emission Units EU43 thru EU59 (EP12-EP22) Finish Line Process Units including: Filler Station, Sealer and Topcoat Roller Application Station, UV Cure Sections, and Inspection / Rework Station	401 KAR 59:010 401 KAR 63:020
2.	16 Wood Drying Kilns (EU 15)	401 KAR 59:010

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, 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.

2. Opacity, VOC, PM, PM_{10}, and $PM_{2.5}$ emissions, measured by applicable reference methods, or an equivalent or alternative method specified in 40 C.F.R. Chapter I, or by a test method specified in the state implementation plan shall not exceed the respective limitations specified herein.

3. To preclude the applicability of 401 KAR 52:020, source-wide emissions of PM shall not exceed 90 tons per year based on a consecutive 12 month rolling total.

   Compliance Demonstration Method for PM:

$$\sum PM_{monthly} = PM_{EU08} + PM_{EU09} + PM_{01A} + PM_{01B} + PM_{01C} + PM_{EU07} + PM_{EU12} + PM_{EU13}$$

$$PM_{EU08and09} = \frac{fuel\ usage\ (tons)}{month} \times \frac{0.0027\ tons\ PM}{ton\ fuel} = \frac{tons\ PM}{month}$$

4. To preclude the applicability of 401 KAR 52:020, source-wide VOC emissions shall not exceed 90 tons per year based on a consecutive 12 month rolling total.

   Compliance Demonstration Method for VOC:

$$VOC\left(\frac{ton(s)}{month}\right) = \sum_x VOC_x$$

$$VOC_x\left(\frac{ton(s)}{month}\right) = EF_x\left(\frac{lb(s)}{SCC_x}\right) \times throughput_x\left(\frac{SCC_x}{month}\right) \times \frac{1}{2000}\left(\frac{ton}{lbs}\right)$$

Emission Units (VOC_X)	Emission Factor (EF)	Emission Factor Basis	Throughput (SCC_X/month)
EU 05-06 (Two Indirect Heat Exchangers)	5.5 (lb/MMscf)	AP-42 Ch. 1.4 Table 1.4-2	Natural Gas (MMscf)
EU 08 (Johnson Wood Boiler) EU 09 (Hurst Wood Boiler)	0.153 (lb/ton)	AP-42 Ch. 1.6 Table 1.6-3	Wood (tons)

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

Emission Units (VOC_X)	Emission Factor (EF)	Emission Factor Basis	Throughput (SCC_X/month)
EU 10 (Stain Roller Station)	2.9 (lb/gallon)	Engineering Calculation, 2009	Stains (gallons)
EU 11 (Emergency Generator)	2.6788 (lb/1000gallons)	AP-42 Ch. 3.2 Table 3.2-3	Propane (gallons)
EU 12 (Pre-Wash Line		2024 Site Visit SDS Sheets Density * %VOC	Stains (gallons)
Ultra-Cure Black	0.05 (lb/gallon)		
Ultra-Cure Red	0.03 (lb/gallon)		
Ultra-Cure White	0.03 (lb/gallon)		
Ultra-Cure Yellow	0.04 (lb/gallon)		
EU 13 (Engineered Hardwoods Line) Hot Melt Glue	0.458 (lb/gallon)	2024 Revision Application Density * %VOC	Glue (gallons)

5. Source-wide emissions of any single HAP shall not exceed 9 tons during any consecutive 12 month period.

Compliance Demonstration Method:

$$\text{Monthly HAP Emissions } HAP_j = \sum_{i=1}^{n} M_i \rho_i$$

Where;

ρ = weight percent of HAP_j in material "i", (lbs/lb).
i = individual HAP containing material (i.e. stain, primer, topcoat, etc.)
j = individual HAP emission (i.e. toluene, xylene, etc.)
n = total number of solvent containing materials used containing single HAP_j
M = pounds of solvent containing material "i " used

Source-wide HAP emissions = Σ [HAP emissions from roll coating operations] + Σ [HAP emissions from Insignificant Activities]

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

6. Source-wide emissions of combined HAPs shall not exceed 22.5 tons during any consecutive 12 month period.

   Compliance Demonstration Method:

$$\text{Combined HAP Emissions} = \sum_{j=1}^{m} \text{HAP}_j$$

   Where; j = individual HAP emission (i.e. xylene, etc.)
   m = total number of single HAP emissions

7. Source-wide emissions of PM and VOC shall not exceed 90 tons each during any consecutive 12 month period.

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 Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030 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 [401 KAR 52:030, Section 3(1)(f)1a, and Section 1a-7 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

3. In accordance with the requirements of 401 KAR 52:030, Section 3(1)f, 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 Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, 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 52:030, Section 22. 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 Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, 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 52:030, 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 in accordance with the following requirements:
   a. Identification of each term or condition;
   b. Compliance status of each term or condition of the permit;
   c. Whether compliance was continuous or intermittent;
   d. The method used for determining the compliance status for the source, currently and over the reporting period.

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

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 Division for Air Quality, London Regional Office, 875 S. Main Street, London, KY 40741.

10. In accordance with 401KAR 52:030, Section 3(1)(d), 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. If a KYEIS emissions survey is not mailed to the permittee, then the permittee shall comply with all other emissions reporting requirements in this permit.

11. The Cabinet may authorize the temporary use of an emission unit to replace a similar unit that is taken off-line for maintenance, if the following conditions are met:
    a. The owner or operator shall submit to the Cabinet, at least ten (10) days in advance of replacing a unit, the appropriate Forms DEP7007AI to DD that show:
        (1) The size and location of both the original and replacement units; and
        (2) Any resulting change in emissions;
    b. The potential to emit (PTE) of the replacement unit shall not exceed that of the original unit by more than twenty-five (25) percent of a major source threshold, and the emissions from the unit shall not cause the source to exceed the emissions allowable under the permit;
    c. The PTE of the replacement unit or the resulting PTE of the source shall not subject the source to a new applicable requirement;
    d. The replacement unit shall comply with all applicable requirements; and
    e. The source shall notify Regional office of all shutdowns and start-ups.
    f. Within six (6) months after installing the replacement unit, the owner or operator shall:
        (1) Re-install the original unit and remove or dismantle the replacement unit; or
        (2) Submit an application to permit the replacement unit as a permanent change.

SECTION G - GENERAL PROVISIONS

1. General Compliance Requirements

   a. The permittee shall comply with all conditions of this permit. A noncompliance shall be a violation of 401 KAR 52:030, 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 the termination, revocation and reissuance, revision, or denial of a permit [Section 1a-2 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, 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-5 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

   c. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:030, Section 18. 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 52:030, 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.

      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- 6 and 7 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

   e. Emission units described in this permit shall demonstrate compliance with applicable requirements if requested by the Division [401 KAR 52:030, 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 52:030, 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-11 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, 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-3 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, 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-12 of the Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources incorporated by reference in 401 KAR 52:030, 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-9 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, 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 52:030, Section 11(3)].

l. This permit does not convey property rights or exclusive privileges [Section 1a-8 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, 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.

SECTION G - GENERAL PROVISIONS (CONTINUED)

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.

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 52:030, 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 Reapplication 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 52:030, Section 12].

b. The authority to operate granted through this permit 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 52:030, Section 8(2)].

3. Permit Revisions

a. Minor permit revision procedures specified in 401 KAR 52:030, Section 14(3), 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 52:030, 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 12 and 13 in accordance with the terms and conditions of this permit (F-24-035).

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 52:030, 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. For those affected facilities for which construction is authorized by this permit, a source shall be allowed to construct with the draft permit. 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 52:030, 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.

SECTION G - GENERAL PROVISIONS (CONTINUED)

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.

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

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.

SECTION G - GENERAL PROVISIONS (CONTINUED)

7. Emergency Provisions

   a. Pursuant to 401 KAR 52:030, Section 23(1), an emergency shall constitute an affirmative defense to an action brought for noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or other 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) The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two (2) working days of the time when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and the corrective actions taken.
      (5) Notification of the Division does not relieve the source of any other local, state or federal notification requirements.

   b. Emergency conditions listed in General Provision G.7.a above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:030, Section 23(3)].

   c. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:030, Section 23(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 82.166.
      (5) Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
      (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*.

9. Risk Management Provisions

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

N/A

SECTION I - COMPLIANCE SCHEDULE

N/A