

**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 52:020**

Permittee Name: Superior Composites CO., LLC
Mailing Address: 294 Industrial Park, Vanceburg, KY 41179

Source Name: Superior Composites CO., LLC
Mailing Address: 294 Industrial Park, Vanceburg, KY 41179

Source Location: 294 Industrial Park, Vanceburg, KY

Permit ID: V-24-042
Agency Interest #: 2701
Activity ID: APE20220001
Review Type: Title V, Operating
Source ID: 21-135-00018

Regional Office: Ashland Regional Office
1550 Wolohan Drive, Suite 1
Ashland, KY 41102
(606) 929-5285

County: Lewis

**Application
Complete Date:** December 23, 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
V-24-042	Renewal	APE20220001	12/23/2024		Permit Renewal

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 52:020, Title V Permits.

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

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

EMISSION UNIT 001 (001): Forming Drums 1 through 22

Description:

Process: Each forming drum has a glass-melting furnace and binder spray applicator.

Construction Date: 1995 (forming drums 1 through 16)
2005 (forming drums 17 through 22)

Emission Point 001

Process: Combustion emissions. 22 glass-melting furnaces rated at 3.30 million British thermal units/hour (mmBtu/hr)*

Glass Capacity: 0.52635 tons/hr*

Fuel Capacity: 0.00324 million cubic feet/hour (mmscf/hr)*

Fuel: Natural gas

Control: None

Emission Point 002

Equipment: 22 spray applicators

Polyester Binder: Regular binder

Binder Capacity: 0.061 tons/hr binder*

Control: Building Containment for PM₁₀/PM_{2.5} (50% control)

Emission Point 003

Equipment: 22 spray applicators

Polyester Binder: A binder

Binder Capacity: 0.061 tons/hr binder*

Control: Building Containment for PM₁₀/PM_{2.5} (50% control)

Emission Point 004

Equipment: 22 spray applicators

Polyester Binder: 176 AC binder

Binder Capacity: 0.093 tons/hr binder*

Control: Building Containment for PM₁₀/PM_{2.5} (50% control)

* Total for all 22 units

EMISSION UNIT 002 (003): Forming Drums 023 through 044

Description:

Construction Date: 1972 Ohio facility construction
2015 Relocation to Kentucky facility

Emission Point 001

Process: Combustion emissions. 22 glass-melting furnaces rated at 3.30 million British thermal units/hour (mmBtu/hr)*

Glass Capacity: 0.50699 tons/hr*

Fuel Capacity: 0.00324 million cubic feet/hour (mmscf/hr)*

Fuel: Natural gas

Control: None

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**Emission Point 002**

Equipment: 22 spray applicators
Polyester Binder: Regular binder
Binder Capacity: 0.0623 tons/hr binder*
Control: Building Containment for PM₁₀/PM_{2.5} (50% control)

Emission Point 003

Equipment: 22 spray applicators
Polyester Binder: A binder
Binder Capacity: 0.0623 tons/hr binder*
Control: Building Containment for PM₁₀/PM_{2.5} (50% control)

Emission Point 004

Equipment: 22 spray applicators
Polyester Binder: 176 AC binder
Binder Capacity: 0.0854 tons/hr binder*
Control: Building Containment for PM₁₀/PM_{2.5} (50% control)

* Total for all 22 units

APPLICABLE REGULATIONS:

401 KAR 59:010, New process operations

STATE ORIGIN REQUIREMENTS:

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

NON-APPLICABLE REGULATIONS:

401 KAR 60:005, Section 2(2)(mm), 40 C.F.R. 60.290 through 60.296 (Subpart CC), Standards of Performance for Glass Manufacturing Plants.

401 KAR 60:005, Section 2(2)(rrr), 40 C.F.R. 60.680 through 60.685 (Subpart PPP), Standard of Performance for Wool Fiberglass Insulation Manufacturing Plants.

401 KAR 63:002, Section 2(4)(qq), 40 C.F.R. 63.1175 through 63.1197, Tables 1 through 2, and Appendix A (Subpart DDD), National Emission Standards for Hazardous Air Pollutants for Mineral Wool Production.

401 KAR 63:002, Section 2(4)(yy), 40 C.F.R. 63.1380 through 63.11389, Tables 1 through 2, and Appendices A through C (Subpart NNN), National Emission Standards for Hazardous Air Pollutants for Wool Fiberglass Manufacturing.

401 KAR 63:002, Section 2(4)(nnn), 40 C.F.R. 63.2980 through 63.3004, Tables 1 through 2, and Appendices A through B (Subpart HHHH), National Emission Standards for Hazardous Air Pollutants for Wet-Formed Fiberglass Mat Production.

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

401 KAR 63:002, Section 2(4)(bbbb), 40 C.F.R. 63.5780 through 63.35935, Tables 1 through 15, and Appendix A (Subpart WWWW), National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production.

1. Operating Limitations:

None

2. Emission Limitations:

- a. No person shall 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 twenty (20) percent opacity [401 KAR 59:010, Section 3(1)(a)].
- b. For emissions from a control device or stack no person shall cause, suffer, allow or permit the emission into the open air of particulate matter from any affected facility which is in excess of the quantity specified in Appendix A to 401 KAR 59:010 and summarized below: [401 KAR 59:010 Section 3(2)]

(1) For process weight rates of 0.50 ton/hour or less: $E = 2.34$

Where: E = rate of particulate emissions in lbs/hr

- c. 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]
- d. See **Section D** for source-wide synthetic minor limit.

Compliance Demonstration Method:

- i. For compliance with **2. Emission Limitations**, a., see **4. Specific Monitoring Requirements**, a.
- ii. Compliance with **2. Emission Limitations**, b., for emission unit 001 and emission unit 002, is assumed based on the maximum process rate and emission factors provided by the facility.
- iii. For compliance with **2. Emission Limitations**, c., see **5. Specific Recordkeeping Requirements**, b.

3. Testing Requirements:

- a. For all process changes with the potential to affect emissions, the permittee shall determine the VOC and individual HAP emission factors for emission unit 001 and emission unit 002 for each binder used that is affected by the process change. The process

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

evaluation shall be completed within sixty (60) days after implementing the process change. The permittee shall use process knowledge and material balance methods, the solvent and particulate concentrations in each binder, weight of binder and glass used, percent particulate lost during the binder spraying operation, weight of the condensed mats produced, and any other applicable process knowledge, to determine an accurate emission factor in pounds of particulate matter (PM₁₀/PM_{2.5}), VOC and individual HAP emissions per ton of binder used or condensed mat produced. [401 KAR 52:020, Section 10]

- b. 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 perform a qualitative visual observation of the opacity of emissions at each roof vent 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 52:020, Section 10]
- b. After producing the uncured condensed mat on the forming drums, the permittee shall measure the weight of the uncured condensed mat using load cells on the forming drums [401 KAR 52:020, Section 10].

5. Specific Recordkeeping Requirements:

- a. On a monthly or weekly basis, as applicable (see **Section D.3**), the permittee shall calculate and keep records of the emissions described below from emission unit 001 and emission unit 002, using the weight of the uncured condensed mat produced, emission factors, raw materials used, engineering and process knowledge, results from performance test, and any other applicable methods [401 KAR 52:020, Section 10]:
 - (1) VOC emissions from the binders used to produce the condensed mat; and
 - (2) VOC emissions from the combustion of natural gas used in the glass-melting furnaces.
- b. To ensure compliance with 401 KAR 63:020, *Potentially hazardous matter or toxic substances*, on a monthly basis, and a 12-month rolling total, the permittee shall calculate and keep records of the ethylbenzene emissions from emission unit 001 and emission unit 002, when producing condensed mat using *Regular binder* and *A binder*. The permittee shall use the weight of the uncured condensed mat produced, emission factors, raw materials used, engineering and process knowledge, results from performance test, and any other applicable methods [401 KAR 52:020, Section 10].

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

- c. The permittee shall keep 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. [401 KAR 52:020, Section 10]

- d. The permittee shall maintain the following records for emission unit 001 and emission unit 002. Records shall be recorded on a monthly basis unless otherwise specified [401 KAR 52:020, Section 10]:
 - (1) Weight of each binder type used;
 - (2) Weight of crushed glass cullet used;
 - (3) Weight of uncured condensed mat produced, by binder type (daily basis);
 - (4) Volume of natural gas usage; and
 - (5) Hours of operation.

6. Specific Reporting Requirements:

See **Section F**.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**EMISSION UNIT 023 (023): Anderson #1 Fiberglass Curing Oven****Description:**

Production Capacity: 2 tons/hr uncured mat (condensed mat)
Construction Date: 1995

Emission Point 001

Equipment: 7.3 MMBtu/hr curing oven
Fuel Capacity: 0.00716 mmcf/hr
Fuel: Natural gas
Control: None

Emission Point 002

Polyester Binder: Regular binder
Control: Wet scrubber with chevron mist eliminator for PM₁₀/PM_{2.5}
(92.97% control)

Emission Point 003

Polyester Binder: A binder
Control: Wet scrubber with chevron mist eliminator for PM₁₀/PM_{2.5}
(92.97% control)

Emission Point 004

Polyester Binder: 176 AC binder
Control: Wet scrubber with chevron mist eliminator for PM₁₀/PM_{2.5}
(92.97% control)

EMISSION UNIT 024 (024): Anderson #2 Fiberglass Curing Oven**Description:**

Production Capacity: 2 tons/hr uncured mat (condensed mat)
Construction Date: 2005

Emission Point 001

Equipment: 7.3 MMBtu/hr curing oven
Fuel Capacity: 0.00716 mmcf/hr
Fuel: Natural gas
Control: None

Emission Point 002

Polyester Binder: Regular binder
Control: Wet scrubber with chevron mist eliminator for PM₁₀/PM_{2.5}
(92.97% control)

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

Emission Point 003

Polyester Binder: A binder
 Control: Wet scrubber with chevron mist eliminator for PM₁₀/PM_{2.5}
 (92.97% control)

Emission Point 004

Polyester Binder: 76 AC binder
 Control: Wet scrubber with chevron mist eliminator for PM₁₀/PM_{2.5}
 (92.97% control)

APPLICABLE REGULATIONS:

401 KAR 59:010, New process operations.

40 CFR 64, Compliance Assurance Monitoring.

STATE ORIGIN REQUIREMENTS:

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

NON-APPLICABLE REGULATIONS:

401 KAR 59:015, New indirect heat exchangers

1. Operating Limitations:

None

2. Emission Limitations:

- a. No person shall 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 twenty (20) percent opacity. [401 KAR 59:010, Section 3(1)(a)]
- b. For emissions from a control device or stack no person shall cause, suffer, allow or permit the emission into the open air of particulate matter from any affected facility which is in excess of the quantity specified in Appendix A to 401 KAR 59:010 and summarized below: [401 KAR 59:010, Section 3(2)]

(1) For process weight rates of 0.50 ton/hour or less: $E = 2.34$

(2) For process weight rates > 0.5 ton/hr up to 30 tons/hr: $E = 3.59 \times P^{0.62}$

Where: E = rate of particulate emissions in lb/hr, and
 P = process weight rate in tons/hr.

Compliance Demonstration Method:

- a. For compliance with **2. Emission Limitations**, a., see **4. Specific Monitoring Requirements**, a., and **5. Specific Recordkeeping Requirements**, c.

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

- b. Compliance is assumed for **2. Emission Limitations**, b., for emission unit 023 and emission unit 024, based on the maximum process rate and emission factors provided in the permit application.
- c. See **Section D** for source-wide synthetic minor limits.

3. Testing Requirements:

- a. The permittee shall demonstrate compliance with the particulate emission limitations for emission unit 023 and emission unit 024 by conducting a performance test using U.S. E.P.A. Method 5, 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. Subsequent performance testing shall be conducted within five years after the last performance test approved by the Division. During the test one oven shall be tested using condensed mat produced with either *regular binder* or *A binder*, and the other oven shall be tested with *176 AC binder*. The performance test shall be conducted in accordance with 401 KAR 50:045 and 401 KAR 50:055, and the following conditions [40 CFR Part 64]:
 - (1) The inlet and outlet concentrations of the particulate emission shall be determined to establish a controlled and uncontrolled emission factor.
 - (2) During the test, operating parameters of the control device shall be monitored and maintained between the parameters specified by the control device manufacture and the Compliance Assurance Monitoring (CAM) Plan.
- b. 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 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 52:020, Section 10]
- b. After producing the uncured condensed mat on the forming drums, the permittee shall measure the weight of the uncured condensed mat using load cells on the forming drums [401 KAR 52:020, Section 10].
- c. The permittee will do the following as required by the CAM plan for control of particulate emissions [40 CFR Part 64]:
 - (1) Continuously monitor and record for each curing oven scrubber the following operating parameters.

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

Operating Parameter	Operating Range
pH	6-9
Pressure drop across the filter bed	20-30 inches of water
Pressure drop across the mist eliminator	< 1.00 inches of water
Scrubber water pump #1 pressure	65-100 psia
Scrubber water pump #2 pressure	65-100 psia
Exhaust gas temperature	<120°F *

* When the ambient temperature is less than 90°F and no more than 30°F over the ambient temperature when the ambient temperature is greater than 90°F.

- (2) Maintain each operating parameter within the operating ranges specified above on an hourly average basis and submit semi-annual deviation reports identifying each hourly reading outside of the specified operating ranges.
- (3) Implement corrective actions for any operating values outside of the acceptable ranges.
- (4) Inspect all monitoring and recordkeeping equipment on a weekly basis.
- (5) Maintain each hourly reading in a computerized monitoring/recordkeeping system for at least five (5) years.
- (6) Calibration of the monitoring instruments shall be conducted as required by the manufacturer.

5. Specific Recordkeeping Requirements:

- a. On a monthly or weekly basis (see **Section D, 3**), the permittee shall calculate and keep records of the emissions described in items (1) and (2) below from emission unit 023 and emission unit 024, using the weight of the uncured condensed mat produced, emission factors, raw materials used, engineering and process knowledge, results from performance test, and any other applicable methods [401 KAR 52:020, Section 10]:
 - (1) VOC emitted from the fiberglass mat cured in the ovens; and
 - (2) VOC emissions from the combustion of natural gas fired in the ovens.
- b. To ensure compliance with 401 KAR 63:020, *Potentially hazardous matter or toxic substances*, on a monthly basis, and a 12-month rolling total, the permittee shall calculate and maintain records of the ethylbenzene emissions from emission unit 023 and emission unit 024, when curing condensed mat produced using *regular binder* and *A binder*. The permittee shall use the weight of the uncured condensed mat produced, emission factors, raw materials used, engineering and process knowledge, results from performance test, and any other applicable methods [401 KAR 52:020, Section 10].
- c. The permittee shall maintain 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. [401 KAR 52:020, Section 10]

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

- d. The permittee shall maintain the following records for emission unit 023 and emission unit 024. Records shall be recorded on a monthly basis unless otherwise specified [401 KAR 52:020, Section 10]:
- (1) Total uncured condensed mat produced at this source and cured in each oven by binder type (daily basis); and
 - (2) Total uncured condensed mat produced at other facilities and cured in each oven by binder type (daily basis).
 - (3) Hours of operation of each curing oven; and
 - (4) Volume of natural gas used in each curing oven.

6. Specific Reporting Requirements:

See Section F.

SECTION C - INSIGNIFICANT ACTIVITIES

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

	<u>Description</u>	<u>Generally Applicable Regulation</u>
1.	5,000 gallon xylene storage tank (IA-1)	401 KAR 63:020
2.	5,000 gallon polyester resin (IA-2) (Stypol 5030) tank	None
3.	5,000 gallon polyester resin (IA-3) (Aropol Q-6650A) tank	401 KAR 63:020
4.	Maintenance welding	401 KAR 63:020
5.	Stypol 6082 tank	None
6.	Aropol 6065 tank (IA-6)	401 KAR 63:020
7.	Stypol 5041 tank	401 KAR 63:020
8.	5090 tank (IA-8)	401 KAR 63:020
9.	Letoff table 1 heater	401 KAR 63:020
10.	Letoff table 2 heater	401 KAR 63:020
11.	Mix room (IA-11)	None
12.	Direct fired Plant Heaters (IA-12)	401 KAR 59:010, 401 KAR 63:020

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.
2. VOC 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. Source-Wide VOC Emission Limitations:
To preclude the applicability of 401 KAR 51:017, *Prevention of significant deterioration of air quality*, the source wide VOC emissions shall not equal or exceed of 240 tons based on a 12-month rolling total [synthetic minor limit].

Compliance Demonstration Method:

- a. Each month the permittee shall calculate the total VOC emissions from the emission sources described in paragraphs (1) through (3) below. The source-wide 12-month rolling total VOC emissions shall then be calculated by adding the current month totals to the previous 11 month totals:
 - (1) VOC emissions calculated in **Section B – Emission Points, Emissions Units, Applicable Regulations, and Operating Conditions**, emission unit 001 and emission unit 002, **5. Specific Recordkeeping Requirements**, a.;
 - (2) VOC emissions calculated in **Section B – Emission Points, Emissions Units, Applicable Regulations, and Operating Conditions**, for emission unit 023 and emission unit 024, **5. Specific Recordkeeping Requirements**, a.; and
 - (3) VOC emissions from processes listed in **Section C - Insignificant Activities**.
- b. If VOC emission on a 12-month rolling total exceeds 225 tons, then the permittee must begin tracking VOC emissions on a weekly and a 52-week rolling total. The permittee shall calculate the total VOC emissions from the emission sources listed in paragraph a, of this section for each 7-day period. The source-wide 52-week rolling total of VOC emissions shall then be calculated by adding the current week's VOC emissions to the previous 51 weeks' VOC emissions.
- c. If the 52-week rolling total of VOC emissions drops below 225 tons for 12 consecutive weeks, the permittee can discontinue with tracking VOC emissions on a weekly basis and resume tracking emissions on a monthly basis.

SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

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

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. Pursuant to Section 1b-IV-1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
 - a. Date, place as defined in this permit, and time of sampling or measurements;
 - b. Analyses performance dates;
 - c. Company or entity that performed analyses;
 - d. Analytical techniques or methods used;
 - e. Analyses results; and
 - f. Operating conditions during time of sampling or measurement.
2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five (5) years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Sections 1b-IV-2 and 1a-8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
3. In accordance with the requirements of 401 KAR 52:020, Section 3(1)h, the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
 - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
 - b. To access and copy any records required by the permit;
 - c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
5. Summary reports of any monitoring required by this permit shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Sections 1b-V-1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

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

6. The semi-annual reports are due by January 30th and July 30th of each year. All reports shall be certified by a responsible official pursuant to 401 KAR 52:020, Section 23. If continuous emission and opacity monitors are required by regulation or this permit, data shall be reported in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All deviations from permit requirements shall be clearly identified in the reports.
7. In accordance with the provisions of 401 KAR 50:055, Section 1, the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
 - a. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
 - b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.
8. The permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken shall be submitted to the Regional Office listed on the front of this permit. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement does not identify a specific time frame for reporting deviations, prompt reporting, as required by Sections 1b-V, 3 and 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26, shall be defined as follows:
 - a. For emissions of a hazardous air pollutant or a toxic air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
 - b. For emissions of any regulated air pollutant, excluding those listed in F.8.a., that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
 - c. All deviations from permit requirements, including those previously reported, shall be included in the semiannual report required by F.6.
9. Pursuant to 401 KAR 52:020, Title V permits, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
 - a. Identification of the term or condition;
 - b. Compliance status of each term or condition of the permit;
 - c. Whether compliance was continuous or intermittent;

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

- d. The method used for determining the compliance status for the source, currently and over the reporting period.
- e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.
- f. The certification shall be submitted by January 30th of each year. Annual compliance certifications shall be sent to the following addresses:

Division for Air Quality
Ashland Regional Office
1550 Wolohan Drive Suite 1
Ashland, KY 41102

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

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

SECTION G - GENERAL PROVISIONS

1. General Compliance Requirements

- a. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020, Section 3(1)(b), and a violation of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act). Noncompliance with this permit is grounds for enforcement action including but not limited to termination, revocation and reissuance, revision or denial of a permit [Section 1a-3 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- b. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a-6 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- c. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
 - (1) If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
 - (2) The Cabinet or the United States Environmental Protection Agency (U.S. EPA) determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
 - (3) The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;
 - (4) New requirements become applicable to a source subject to the Acid Rain Program.

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

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

SECTION G - GENERAL PROVISIONS (CONTINUED)

- e. Emission units described in this permit shall demonstrate compliance with applicable requirements if requested by the Division [401 KAR 52:020, Section 3(1)(c)].
- f. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].
- g. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a-14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- h. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a-4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- i. All emission limitations and standards contained in this permit shall be enforceable as a practical matter. All emission limitations and standards contained in this permit are enforceable by the U.S. EPA and citizens except for those specifically identified in this permit as state-origin requirements. [Section 1a-15 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- j. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a-10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- k. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3) b.].
- l. This permit does not convey property rights or exclusive privileges [Section 1a-9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- m. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Cabinet or any other federal, state, or local agency.
- n. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3) d.].

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 [401 KAR 52:020, Section 11(3) a.].
- p. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.
- q. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with:
 - (1) Applicable requirements that are included and specifically identified in the 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 52:020, Section 12].
- b. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:020, Section 8(2)].

3. Permit Revisions

- a. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the State Implementation Plan (SIP) or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).
- b. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

SECTION G - GENERAL PROVISIONS (CONTINUED)4. Construction, Start-Up, and Initial Compliance Demonstration Requirements

No construction authorized by this permit V-24-042.

5. Testing Requirements

- a. Pursuant to 401 KAR 50:045, Section 2, a source required to conduct a performance test shall submit a completed Compliance Test Protocol form, DEP form 6028, or a test protocol a source has developed for submission to other regulatory agencies, in a format approved by the cabinet, to the Division's Frankfort Central Office a minimum of sixty (60) days prior to the scheduled test date. Pursuant to 401 KAR 50:045, Section 7, the Division shall be notified of the actual test date at least thirty (30) days prior to the test.
- b. Pursuant to 401 KAR 50:045, Section 5, in order to demonstrate that a source is capable of complying with a standard at all times, any required performance test shall be conducted under normal conditions that are representative of the source's operations and create the highest rate of emissions. If [When] the maximum production rate represents a source's highest emissions rate and a performance test is conducted at less than the maximum production rate, a source shall be limited to a production rate of no greater than 110 percent of the average production rate during the performance tests. If and when the facility is capable of operation at the rate specified in the application, the source may retest to demonstrate compliance at the new production rate. The Division for Air Quality may waive these requirements on a case-by-case basis if the source demonstrates to the Division's satisfaction that the source is in compliance with all applicable requirements.
- c. Results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days or sooner if required by an applicable standard, after the completion of the fieldwork.

6. Acid Rain Program Requirements

- a. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.
- b. The permittee shall comply with all applicable requirements and conditions of the Acid Rain Permit and the Phase II permit application (including the Phase II NO_x compliance plan and averaging plan, if applicable) incorporated into the Title V permit issued for this source. The source shall also comply with all requirements of any revised or future acid rain permit(s) issued to this source.

SECTION G - GENERAL PROVISIONS (CONTINUED)**7. Emergency Provisions**

- a. Pursuant to 401 KAR 52:020, Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
 - (1) An emergency occurred and the permittee can identify the cause of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
 - (4) Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
 - (5) This requirement does not relieve the source of other local, state or federal notification requirements.
- b. Emergency conditions listed in General Condition G.7.a above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].
- c. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].

8. Ozone Depleting Substances

- a. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - (1) Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
 - (2) Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
 - (3) Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - (4) Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166
 - (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

None

SECTION I - COMPLIANCE SCHEDULE

None