

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

**Draft**

**AIR QUALITY PERMIT  
Issued under 401 KAR 52:020**

**Permittee Name: The Okonite Company, Inc.  
Mailing Address: 1740 Berea Road, Richmond, Kentucky 40475**

**Source Name: The Okonite Company, Inc.  
Mailing Address: 1740 Berea Road, Richmond, Kentucky 40475**

**Source Location: Same as above**

**Permit ID: V-24-003  
Agency Interest #: 2858  
Activity ID: APE20230002  
Review Type: Title V, Construction / Operating  
Source ID: 21-151-00021**

**Regional Office: Frankfort Regional Office  
300 Sower Boulevard, 1st Floor  
Frankfort, KY 40601  
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**County: Madison**

**Application  
Complete Date: October 1, 2023  
Issuance Date:  
Expiration Date:**

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**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-24-003	Initial	APE20230002	10/1/2023		Initial Title V Operating Permit

## **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**

### **Emission Unit 2.1 (EPs 808, 809, 830, 831, 832, 7301, 7302) – Continuous Vulcanization (CV) Rubber Extrusion Operation**

#### **Description:**

Rubber insulation is extruded onto cables, and steam is utilized for the vulcanization process.

#### **Construction Commenced:**

Emission Points 808 & 809 installed in 1969; modified in 2024

Emission Points 830 & 831 installed in 1969

Emission Point 832 installed in 2013

Emission Points 7301 & 7302 installed in 2016; modified in 2024

**Maximum Capacity:** 137,985 tons/year, combined

**Control Device:** None

#### **APPLICABLE REGULATIONS:**

#### **STATE-ORIGIN REQUIREMENTS:**

**401 KAR 63:020**, *Potentially hazardous matter or toxic substances*. Applies to acetophenone and alpha-methylstyrene emissions

#### **1. Operating Limitations:**

Refer to **SECTION D**.

#### **2. Emission Limitations:**

- a. 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]
- b. **VOC Emission Standard:** Refer to **SECTION D** for source-wide emission limitations.

#### **Compliance Demonstration Method:**

A. 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. Refer to **SECTION D** for compliance with the VOC emission standard.

#### **3. Testing Requirements:**

Pursuant to 401 KAR 50:045, Section 1, performance testing using the reference methods specified in 401 KAR 50:015 shall be conducted if required by the Cabinet.

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

### **4. Specific Monitoring Requirements:**

- a. The permittee shall monitor the following: [401 KAR 52:020, Section 10]
  - i. The monthly combined hours of operation for all emission points in Emission Unit 2.1;
  - ii. The monthly combined total product weight produced at all emission points in Emission Unit 2.1;
  - iii. The monthly and 12-month rolling total emissions of VOC;
- b. Refer to **SECTION F** for general monitoring requirements.

### **5. Specific Recordkeeping Requirements:**

- a. The permittee shall maintain records of the following: [401 KAR 52:020, Section 10]
  - i. The monthly combined hours of operation for all emission points in Emission Unit 2.1;
  - ii. The monthly combined total product weight produced at all emission points in Emission Unit 2.1;
  - iii. The monthly and 12-month rolling total emissions of VOC;
- b. Refer to **SECTION F** for general recordkeeping requirements.

### **6. Specific Reporting Requirements:**

Refer to **SECTION F** for general reporting requirements.

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

### **Emission Unit 2.2 – Cooling Tower**

#### **Description:**

Steam vulcanizes the cable produced by the CV process line and cold water injects onto the end of the process line to cool the cable, prior to further processing in the plant. Water collects in the common pit at the end of the CV line and a pump transfers the heated water to the cooling tower prior to reuse on the CV line.

**Model:** The Cooling Tower Co. Model TCI-1110-15-1 (Two-Cell)

**Control Device:** Mist Eliminator

**Construction Commenced:** 2010

**Maximum Capacity:** 323 MMgal/year

#### **APPLICABLE REGULATIONS:**

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

#### **STATE-ORIGIN REQUIREMENTS:**

**401 KAR 63:020**, *Potentially hazardous matter or toxic substances*. Applies to acetophenone and alpha-methylstyrene emissions.

#### **PRECLUDED REGULATIONS:**

**401 KAR 63:002, Section 2(4)(j), 40 C.F.R. 63.400 to 63.407, Table 1 (Subpart Q)**, *National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers*

#### **1. Operating Limitations:**

Refer to **SECTION D**.

#### **2. Emission Limitations:**

a. The permittee shall not use chromium based water treatment chemicals within the industrial process cooling tower. [40 CFR 63.402]

b. **Opacity Standard:** 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 twenty (20) percent opacity. [401 KAR 59:010, Section 3(1)(a)]

c. **Mass Emission Standard:** The permittee shall not cause, suffer, allow or permit the emission into the open air from a control device or stack associated with any affected facility which is in excess of the quantity specified in 401 KAR 59:010, Appendix A: [401 KAR 59:010, Section 3(2)]

i. For Process weights  $\leq 0.5$  tons/hr: 2.34 lb/hr

ii. For Process weights  $\leq 30$  tons/hr:  $E = 3.59P^{0.62}$

Where:

$E$  = the rate of emission in lb/hr

$P$  = the process weight rate in tons/hr.

Note: Process weight rate is the total CV line process rate (EU 2.1).

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

- d. 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]
- e. **VOC Emission Standard:** Refer to **SECTION D** for source-wide emission limitations.
- f. The permittee shall install, operate, and maintain a flow meter for the cooling tower.

**Compliance Demonstration Method:**

- A. For compliance with **2. Emission Limitations (a)**, refer to **5. Specific Recordkeeping Requirements (b)** and **6. Specific Reporting Requirements**.
  - B. For compliance with **2. Emission Limitations (b)**, refer to **4. Specific Monitoring Requirements (b)** and **5. Specific Recordkeeping Requirements (a)**.
  - C. EU 2.2 is assumed to be in compliance with the production-based mass emission limit when the cooling tower and mist eliminators are operating and properly maintained based on the rate of emissions provided in the application. Refer to **4. Specific Monitoring Requirements (a)** and **5. Specific Recordkeeping Requirements (c)**.
  - D. 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. Refer to **SECTION D** for compliance with the VOC emission standard.
- 3. Testing Requirements:**  
Pursuant to 401 KAR 50:045, Section 1 and 401 KAR 59:005, Section 2, performance testing using the reference methods specified in 401 KAR 50:015 shall be conducted if required by the Cabinet.
- 4. Specific Monitoring Requirements:**
- a. The permittee shall monitor the following: [401 KAR 52:020, Section 10]
    - i. The monthly hours of operation;
    - ii. The monthly throughput of cooling water in million gallons;
    - iii. The monthly and 12-month rolling total emissions of VOC.
  - b. The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack no less frequently than once every 7 days while the affected facility is operating. If visible emissions from the stack are observed (not including condensed water in the plume), then 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]

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

c. Refer to **SECTION F** for general monitoring requirements.

**5. Specific Recordkeeping Requirements:**

- a. The permittee shall retain records of the qualitative visual observations required by **4. Specific Monitoring Requirements (b)**, including the date, time, initials of observer, whether any emissions were observed (yes/no), any Method 9 readings taken, and any corrective action taken including results due to observed emissions. [401 KAR 52:020, Section 10]
- b. The permittee shall maintain records of the MSDSs/SDSs of the water treatment chemicals used in the cooling tower. [401 KAR 52:020, Section 10]
- c. The permittee shall maintain records of the following: [401 KAR 52:020, Section 10]
  - i. The monthly hours of operation;
  - ii. The monthly throughput of cooling water in million gallons;
  - iii. The monthly and 12-month rolling total emissions of VOC;
- d. Refer to **SECTION F** for general recordkeeping requirements.

**6. Specific Reporting Requirements:**

- a. Any water treatment chemical that is used in the cooling tower and is later found to contain chromium shall be reported to the Division within 3 days. Refer to **SECTION F** for general reporting requirements. [401 KAR 52:020, Section 10]
- b. Refer to **SECTION F** for general reporting requirement.

**7. Specific Control Equipment Operating Conditions:**

Refer to **SECTION E**.



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

### **Emission Unit 3.1 (EPs 810, 880, 890, 891, 7860, 7866) – 4 Plastic Extrusion Lines & 2 Vulcanizers**

#### **Description:**

Polyethylene, polyvinyl chloride, polypropylene, or Sioplas are extruded onto an electric power cable. The extruders operate at a maximum of 450 °F. The lines are cooled and taken up at the end of the process. Sioplas extruded at Plastic Extrusion Lines 810 and 890 is placed into either vulcanizer to cure. There are six (6) individual emission points within the emission unit.

**Control Device:** None

#### **Construction Commenced:**

Emission Point 810 installed in 1969  
Emission Point 880 installed in 1999  
Emission Point 890 installed in 1988  
Emission Point 891 installed in 2008  
Emission Point 7860 installed in 1977  
Emission Point 7866 installed in 2008

#### **Maximum Capacities:**

Plastic Extrusion: 49656 tons/year  
PVC Extrusion: 16685 tons/year  
Sioplas extrusion: 2500 tons/year

#### **APPLICABLE REGULATIONS:**

**401 KAR 59:010**, *New process operations*. Applies to EPs 880, 890, 891, 7860, & 7866

**401 KAR 61:020**, *Existing process operations*. Applies to EP 810

#### **STATE-ORIGIN REQUIREMENTS:**

**401 KAR 63:020**, *Potentially hazardous matter or toxic substances*. Applies to hydrogen chloride, vinyl chloride, and methanol emissions.

#### **1. Operating Limitations:**

Refer to **SECTION D**.

#### **2. Emission Limitations:**

a. **Mass Emission Standard for Emission Point 810:** The permittee shall not cause, suffer, allow or permit the emission in the open air of particulate matter from any affected facility which is in excess of the quantity specified in 401 KAR 61:020, Appendix A. [401 KAR 61:020, Section 3(2)(a)]

- i. For process weights  $\leq 0.5$  tons/hr: 2.58 lb/hr
- ii. For process weights  $\leq 30$  tons/hr:  $E = 4.10P^{0.67}$

Where:

$E$  = rate of emission in lb/hr; and  
 $P$  = process weight rate in tons/hr.

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

- b. **Mass Emission Standard for Emission Point 880, 890, 891, 7860, & 7866:** The permittee shall not 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 401 KAR 59:010, Appendix A. [401 KAR 59:010, Section 3(2)]
- i. For process weights  $\leq 0.5$  tons/hr: 2.34 lb/hr
  - ii. For process weights  $\leq 30$  tons/hr:  $E = 3.59P^{0.62}$
- Where:  
 $E$  = rate of emission in lb/hr; and  
 $P$  = process weight rate in tons/hr.
- c. **VOC Emission Standard:** Refer to **SECTION D** for source-wide emission limitations.
- d. **Opacity Standard for Emission Point 810:** 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 forty (40) percent opacity. [401 KAR 61:020, Section 3(1)(a)]
- e. **Opacity Standard for Emission Points 880, 890, 891, 7860, & 7866:** 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 twenty (20) percent opacity. [401 KAR 59:010, Section 3(1)(a)]
- f. 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]

### Compliance Demonstration Method:

- A. The source shall demonstrate compliance with the production-based mass emission limit in 401 KAR 61:020 and **2. Emission Limitations (a)** by complying with the production-based mass emission in limit in 401 KAR 59:010 using the combined production-based mass from all four (4) plastic extrusion lines in Emission Unit 3.1. Refer to **Compliance Demonstration Method (B)**.
- B. The emission points listed above are assumed to be in compliance with the combined production-based mass emission limit for all four plastic extrusion lines and two vulcanizers in **2. Emission Limitations (b)** when the plastic extrusion lines and vulcanizers are operating and properly maintained. Refer to **4. Specific Monitoring Requirements (a)** and **5. Specific Recordkeeping Requirements (b)**.
- C. For compliance with the VOC standard in **2. Emission Limitations (c)**, refer to **SECTION D**.
- D. For compliance with **2. Emission Limitations (d)** and **(e)**, refer to **4. Specific Monitoring Requirements (b)** and **5. Specific Recordkeeping Requirements (a)**.

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

E. 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.

**3. Testing Requirements:**

Pursuant to 401 KAR 59:005, Section 2(2), 401 KAR 61:005, Section 2(2), and 401 KAR 50:045, Section 1, performance testing using the reference methods specified in 401 KAR 50:015 shall be conducted if required by the Cabinet.

**4. Specific Monitoring Requirements:**

- a. The permittee shall monitor the following: [401 KAR 52:020, Section 10]
  - i. The monthly total product weight of polyethylene, polyvinyl chloride (PVC), polypropylene, and Sioplas coated product;
  - ii. The monthly hours of operation;
  - iii. The monthly and 12-month rolling total emissions of VOC.
- b. The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack no less frequently than once every 7 days while the affected facility is operating. If visible emissions from the stack are observed (not including condensed water in the plume), then 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]
- c. Refer to **SECTION F** for general monitoring requirements.

**5. Specific Recordkeeping Requirements:**

- a. The permittee shall retain records of the qualitative visual observations required by 4. **Specific Monitoring Requirements (b)**, including the date, time, initials of observer, whether any emissions were observed (yes/no), any Method 9 readings taken, and any corrective action taken including results due to observed emissions. [401 KAR 52:020, Section 10]
- b. The permittee shall maintain records of the following: [401 KAR 52:020, Section 10]
  - i. The monthly total product weight of polyethylene, polyvinyl chloride (PVC), polypropylene, and Sioplas coated product;
  - ii. The monthly hours of operation;
  - iii. The monthly and 12-month rolling total emissions of VOC.
- c. Refer to **SECTION F** for general recordkeeping requirements.

**6. Specific Reporting Requirements:**

Refer to **SECTION F** for general reporting requirements.

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

### **Emission Unit 4.1 (EPs IJ4 – IJ15 & OP2 – OP12) – Cable Printing Processes**

**Description:** Cables are coated with applicable electrical information at the print lines. Cables are printed with manufacturer identification codes at the inkjet printers. There are total of twenty-three (23) individual emission points as noted above, 12 Inkjet Printers (IJ) and 11 Offset Printers (OP). These printers are portable within the plant.

**Control Device:** None

**Construction Commenced:**

Emission Points OP2 – OP10 installed 1983 to 2013

Emission Points OP11 & OP12 installed July 2016

Emission Points IJ4 – IJ11 installed 1999 to 2013

Emission Points IJ12 & IJ13 installed July 2016

Emission Points IJ14 & IJ15 installed in 2019

**Maximum Capacities:**

Ink: 1000 gallons/year

Thinner: 1200 gallons/year

### **APPLICABLE REGULATIONS:**

#### **STATE-ORIGIN REQUIREMENTS:**

**401 KAR 63:020**, *Potentially hazardous matter or toxic substances*. Applicable to cyclohexanone, ethylbenzene, methyl ethyl ketone, toluene, and xylene emissions.

#### **1. Operating Limitations:**

- a. Total ink usage shall not exceed 1,000 gallons of ink per year on a 12-month rolling basis. [To preclude major source status for VOCs under 401 KAR 52:020]
- b. Total thinner usage shall not exceed 1,200 gallons per year on a 12-month rolling basis. [To preclude major source status for VOCs under 401 KAR 52:020]
- c. Refer to **SECTION D**.

#### **Compliance Demonstration Method:**

For compliance with **1. Operating Limitations** (a) and (b), refer to **4. Specific Monitoring Requirements** (a).

#### **2. Emission Limitations:**

- a. **VOC Emission Standard:** Refer to **SECTION D** for source-wide emission limitations.
- b. 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 B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **Compliance Demonstration Method:**

- A. Refer to **SECTION D** for compliance with the VOC emission standard.
  
- B. 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.

### **3. Testing Requirements:**

Pursuant to 401 KAR 50:045, Section 1, performance testing using the reference methods specified in 401 KAR 50:015 shall be conducted if required by the Cabinet.

### **4. Specific Monitoring Requirements:**

- a. The permittee shall monitor the following: [401 KAR 52:020, Section 10]
  - i. The monthly and 12-month rolling total of ink usage in gallons for the inkjet and offset printing processes;
  - ii. The monthly and 12-month rolling total of thinner usage in gallons for the inkjet and offset printing processes;
  - iii. The monthly hours of operation;
  - iv. The monthly and 12 month rolling total emissions of VOC.
  
- b. Refer to **SECTION F** for general monitoring requirements.

### **5. Specific Recordkeeping Requirements:**

- a. The permittee shall maintain records of the following: [401 KAR 52:020, Section 10]
  - i. The monthly and 12-month rolling total of ink usage in gallons for the inkjet and offset printing processes;
  - ii. The monthly and 12-month rolling total of thinner usage in gallons for the inkjet and offset printing processes;
  - iii. The monthly hours of operation;
  - iv. The monthly and 12 month rolling total emissions of VOC.
  
- b. Refer to **SECTION F** for general recordkeeping requirements.

### **6. Specific Reporting Requirements:**

Refer to **SECTION F** for general reporting requirements.

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

### **Emission Units 7.3, 7.4, & 7.5 – Boilers #3, #4, & #5**

#### **Description:**

Three natural gas fired boilers that provide steam for both process heating and building heat for the plant. Boilers #3 & #4 are only configured to use natural gas and are not capable of using any alternate fuels. Boiler #5 primarily burns natural gas, except during periods of curtailment or supply interruption, when #2 fuel oil may be burned.

#### **Emission Unit 7.3 – Boiler #3**

**Make/Model:** Clayton Industries Boiler Model SE-504

**Rated Capacity:** 19.67 MMBtu/hour

**Construction Commenced:** 2006

**Control Device:** None

#### **Emission Unit 7.4 – Boiler #4**

**Make/Model:** Clayton Industries Boiler Model EG-304-5

**Rated Capacity:** 12.55 MMBtu/hour

**Construction Commenced:** 2016

**Control Device:** None

#### **Emission Unit 7.5 – Boiler #5**

**Make/Model:** Clayton Industries Boiler Model EOG504-5-FGR

**Rated Capacity:** 21 MMBtu/hour

**Construction Commenced:** 2018

**Control Device:** None

### **APPLICABLE REGULATIONS:**

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

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

**401 KAR 63:002, Section 2(4)(iiii), 40 C.F.R. 63.7480 to 63.7575, Tables 1 to 13 (Subpart DDDDD), *National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters***

#### **1. Operating Limitations:**

- a. The permittee shall meet the requirements in 40 CFR 63.7500(a)(1) through (3), except as provided in 40 CFR 63.7500(b) through (e). The permittee shall meet these requirements at all times the affected unit is operating, except as provided in 40 CFR 63.7500(f). [40 CFR 63.7500(a)]
  - i. The permittee shall meet each work practice standard in Table 3 to 40 CFR 63, Subpart DDDDD that applies to the boiler or process heater, for each boiler or process heater. [40 CFR 63.7500(a)(1)]

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

- ii. At all times, the permittee shall operate and maintain any affected source (as defined in 40 CFR 63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Division 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 63.7500(a)(3)]
- b. The permittee must be in compliance with the work practice standards and operating limits in 40 CFR 63, Subpart DDDDD. These emission and operating limits apply to the permittee at all times the affected unit is operating except for the periods noted in 40 CFR 63.7500(f). [40 CFR 63.7505(a)]
- c. The permittee must complete an initial tune-up following the procedures in 40 CFR 63.7540(a)(10)(i) through (iv) no later than three years after the issuance date of this permit (V-24-003), except as specified in 40 CFR 63.7510(j). The permittee must complete the one-time energy assessment specified in 40 CFR 63, Subpart DDDDD, Table 3 no later than three years after the issuance date of this permit (V-24-003). [40 CFR 63.7510(e)]
- d. The permittee must 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 40 CFR 63, Subpart DDDDD, Table 3, satisfies the energy assessment requirement. A facility that operates under an energy management program developed according to the ENERGY STAR guidelines for energy management or compatible with ISO 50001 for at least one year between January 1, 2008 and the compliance date specified in 40 CFR 63.7495 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 a. to e. appropriate for the on-site technical hours listed in 40 CFR 63.7575. [40 CFR 63, Subpart DDDDD, Table 3(4)]
  - i. A visual inspection of the boiler or process heater system. [40 CFR 63, Subpart DDDDD, Table 3(4)(a)]
  - ii. An evaluation of operating characteristics of the boiler or process heater systems, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints. [40 CFR 63, Subpart DDDDD, Table 3(4)(b)]
  - iii. An inventory of major energy use systems consuming energy from affected boilers and process heaters and which are under the control of the boiler/process heater owner/operator. [40 CFR 63, Subpart DDDDD, Table 3(4)(c)]
  - iv. A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage. [40 CFR 63, Subpart DDDDD, Table 3(4)(d)]
  - v. A review of the facility's energy management practices and provide recommendations for improvements consistent with the definition of energy management practices, if identified. [40 CFR 63, Subpart DDDDD, Table 3(4)(e)]
  - vi. A list of cost-effective energy conservation measures that are within the facility's control. [40 CFR 63, Subpart DDDDD, Table 3(4)(f)]

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

- vii. A list of the energy savings potential of the energy conservation measures identified. [40 CFR 63, Subpart DDDDD, Table 3(4)(g)]
  - viii. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments. [40 CFR 63, Subpart DDDDD, Table 3(4)(h)]
- e. The permittee must conduct an annual performance tune-up according to 40 CFR 63.7540(a)(10). Each annual tune-up specified in 40 CFR 63.7540(a)(10) must be conducted no more than 13 months after the previous tune-up. [40 CFR 63.7515(d)]

**Compliance Demonstration Method:**

- A. The permittee shall conduct an annual tune-up of each boiler or process heater to demonstrate continuous compliance as specified in 40 CFR 63.7540(a)(10)(i) through (vi): [40 CFR 63.7540(a)(10)]
1. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the permittee may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment; [40 CFR 63.7540(a)(10)(i)]
  2. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available; [40 CFR 63.7540(a)(10)(ii)]
  3. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the permittee may delay the inspection until the next scheduled unit shutdown); [40 CFR 63.7540(a)(10)(iii)]
  4. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO<sub>x</sub> requirement to which the unit is subject; [40 CFR 63.7540(a)(10)(iv)]
  5. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and [40 CFR 63.7540(a)(1)(v)]
  6. Maintain on-site and submit, if requested by the Administrator, an annual report containing the information in 40 CFR 63.7540(a)(10)(vi)(A) through (C), [40 CFR 63.7540(a)(10)(vi)]
    - I. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater; [40 CFR 63.7540(a)(10)(vi)(A)]
    - II. A description of any corrective actions taken as a part of the tune-up; and [40 CFR 63.7540(a)(10)(vi)(B)]
    - III. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel



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

during that period. Units sharing a fuel meter may estimate the fuel used by each unit. [40 CFR 63.7540(a)(10)(vi)(C)]

B. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. [40 CFR 63.7540(a)(13)]

f. Refer to **SECTION D**.

### 2. **Emission Limitations:**

a. **Mass Emission Standard:** The permittee shall not cause emissions of particulate matter in excess of the following: [401 KAR 59:015, Section 4(1)(c)]

- i. For Boiler #3: 0.34 lb/MMBtu actual heat input;
- ii. For Boiler #4: 0.31 lb/MMBtu actual heat input;
- iii. For Boiler #5, when combusting natural gas or oil: 0.31 lb/MMBtu actual heat input.

b. **VOC Emission Standard:** Refer to **SECTION D** for source-wide emission limitations.

c. **Opacity Standard:** The permittee shall not cause emissions of particulate matter in excess of 20 percent. [401 KAR 59:015, Section 4(2)]

d. **SO<sub>2</sub> Standard:** The permittee shall not cause emissions of gases that contain sulfur dioxide in excess of the following: [401 KAR 59:015, Section 5(1)(c)(2.)]

- i. For Boiler #3: 1.25 lbs/MMBtu actual heat input;
- ii. For Boiler #4: 1.09 lbs/MMBtu actual heat input;
- iii. For Boiler #5, when combusting natural gas: 1.09 lbs/MMBtu actual heat input;

e. For EP 7.5 (Boiler #5), when combusting #2 fuel oil, the permittee shall not cause to be discharged into the atmosphere from EP 7.5 (Boiler #5) any gases that contain SO<sub>2</sub> in excess of 215 ng/J (0.50 lb/MMBtu) heat input from oil; or, as an alternative, the permittee shall not combust oil in EP 7.5 (Boiler #5) that contains greater than 0.5 weight percent sulfur. The percent reduction requirements are not applicable to affected facilities under this paragraph. [40 CFR 60.42c(d)]

f. The SO<sub>2</sub> emission limits and fuel oil sulfur limits under 40 CFR 60.42c apply at all times, including periods of startup, shutdown, and malfunction. [40 CFR 60.42c(i)]

### **Compliance Demonstration Method:**

A. For **2. Emission Limitations (a)**, the source is assumed to be in compliance when the boilers are burning natural gas and are properly maintained, Refer to **4. Specific Monitoring Requirements (a) and (b)**. When #2 fuel oil is used, the permittee shall demonstrate compliance by comparing the allowable rate to the actual rate for particulate matter as calculated below:

$$E_{PM} = \frac{P \times EF_{PM}}{T}$$

Where:

$E_{PM}$  is particulate emissions in lbs/hour,

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

*P* is the monthly #2 fuel oil usage in gallons,  
*EF<sub>PM</sub>* is the KYEIS particulate emission factor in lbs/gallon of #2 fuel oil, and  
*T* is the monthly number of hours #2 fuel oil was used.

- B. Refer to **SECTION D** for compliance with the VOC emission standard
- C. For compliance with **2. Emission Limitations (c)**, refer to **4. Specific Monitoring Requirements (e)** and **5. Specific Recordkeeping Requirements (a)**.
- D. For **2. Emission Limitations (d)**, the source is assumed to be in compliance when the boilers are burning natural gas and are properly maintained, Refer to **4. Specific Monitoring Requirements (a)** and **(b)**.
- E. For EP 7.5 (Boiler #5), when combusting oil, compliance with the emission limits or fuel oil sulfur limits under 40 CFR 60.42c and **2. Emission Limitations (e)** and **(f)** may be determined based on a certification from the fuel supplier, as described under 40 CFR 60.48c(f)(1). [40 CFR 60.42c(h)(1)]
- F. For EP 7.5 (Boiler #5), where the permittee seeks to demonstrate compliance with SO<sub>2</sub> standards based on fuel supplier certification, the performance test shall consist of the certification from the fuel supplier, as described in 40 CFR 60.48c(f)(1). [40 CFR 60.44c(h)]
- G. For EP 7.5 (Boiler #5), fuel supplier certification shall include the following information for distillate oil: [40 CFR 60.48c(f)(1)]
- i. The name of the oil supplier; [40 CFR 60.48c(f)(1)(i)]
  - ii. A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c; and [40 CFR 60.48c(f)(1)(ii)]
  - iii. The sulfur content or maximum sulfur content of the oil. [40 CFR 60.48c(f)(1)(iii)]
- 3. Testing Requirements:**  
Pursuant to 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the reference methods specified in 401 KAR 50:015 shall be conducted if required by the Cabinet.
- 4. Specific Monitoring Requirements:**
- a. For all periods of natural gas usage in EP 7.3 (Boiler #3), EP 7.4 (Boiler #4) and EP 7.5 (Boiler #5), the permittee shall monitor the following: [40 CFR 60.48c(g)(2)]
    - i. The monthly natural gas usage in million cubic feet;
    - ii. The monthly hours of operation;
  - b. The monthly natural gas usage for each boiler shall be calculated using the overall throughput for the boilers determined from the monthly boiler room gas utility meter readings to calculate a weighted average based on monthly hours of operation and the capacity rating for each boiler. [40 CFR 60.48c(g)(2)]

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

- c. The permittee shall monitor the monthly and 12-month rolling total emissions of VOC. [401 KAR 52:020, Section 10]
- d. The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack no less frequently than once every 7 days while the affected facility is operating. If visible emissions from the stack are observed (not including condensed water in the plume), then 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]
- e. For all periods of #2 fuel oil usage in EP 7.5 (Boiler #5), the permittee shall monitor: [401 KAR 52:020, Section 10]
  - i. The heat content and sulfur content for the #2 fuel oil used;
  - ii. The monthly and total annual hours of #2 fuel oil use;
  - iii. The reason for #2 fuel oil use;
  - iv. The monthly #2 fuel oil usage in gallons.
- f. Refer to **SECTION F** for general monitoring requirements.

**5. Specific Recordkeeping Requirements:**

- a. The permittee shall retain records of the qualitative visual observations required by 4. **Specific Monitoring Requirements (d)**, including the date, time, initials of observer, whether any emissions were observed (yes/no), any Method 9 readings taken, and any corrective action taken including results due to observed emissions. [401 KAR 52:020, Section 10]
- b. The permittee shall maintain records of the following: [401 KAR 52:020, Section 10]
  - i. The monthly and annual hours of natural gas use;
  - ii. The heat content and sulfur content for the #2 fuel oil used;
  - iii. The reason for #2 fuel oil use;
  - iv. The monthly and 12-month rolling total emissions of VOC.
- c. Except as provided under 40 CFR 60.48c(g)(2) and (g)(3), the permittee shall record and maintain records of the amount of each fuel combusted during each operating day. [40 CFR 60.48c(g)(1)]
- d. As an alternative to meeting the requirements of 40 CFR 60.48c(g)(1), the permittee of an affected facility that combusts only natural gas, fuels using fuel certification in 40 CFR 60.48c(f) to demonstrate compliance with the SO<sub>2</sub> standard, fuels not subject to an emission standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month. [40 CFR 60.48c(g)(2)]
- e. As an alternative to meeting the requirements of 40 CFR 60.48c(g)(1), the permittee of an affected facility or multiple affected facilities located on a contiguous property unit where

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

the only fuels combusted in any steam generating unit (including steam generating units not subject to 40 CFR 60, Subpart Dc) at that property are natural gas, wood, distillate oil meeting the most current requirements in 40 CFR 60.42c to use fuel certification to demonstrate compliance with the SO<sub>2</sub> standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month. [40 CFR 60.48c(g)(3)]

- f. The permittee shall keep records according to 40 CFR 63.7555(a)(1) and (2): [40 CFR 63.7555(a)]
  - i. A copy of each notification and report that the permittee submitted to comply with 40 CFR 63, Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that was submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). [40 CFR 63.7555(a)(1)]
  - ii. Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR 63.10(b)(2)(viii). [40 CFR 63.7555(a)(2)]
- g. If the permittee operates a unit in the unit designed to burn gas 1 subcategory that is subject to 40 CFR 63, Subpart DDDDD, and the permittee uses an alternative fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart under part 63, other gas 1 fuel, or gaseous fuel subject to another subpart of part 63 or part 60, 61, or 65, the permittee must keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies. [40 CFR 63.7555(h)]
- h. The records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). [40 CFR 63.7560(a)]
  - i. As specified in 40 CFR 63.10(b)(1), the permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.7560(b)]
  - j. The permittee shall keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The permittee can keep the records off site for the remaining 3 years. [40 CFR 63.7560(c)]
- k. Refer to **SECTION F** for general recordkeeping requirements.

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

### **6. Specific Reporting Requirements:**

- a. For EP 7.5 (Boiler #5), the permittee shall submit to the Administrator the performance test data from the initial and any subsequent performance tests. [40 CFR 60.48c(b)]
- b. For EP 7.5 (Boiler #5), the permittee shall keep records and submit reports as required under 40 CFR 60.48c(d), including the following information. [40 CFR 60.48c(e)]
  - i. Records of fuel supplier certification as described under 40 CFR 60.48c(f)(1). In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the permittee that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period. [40 CFR 60.48c(e)(11)]
- c. The reporting period for the reports required under 40 CFR 60, Subpart Dc is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30<sup>th</sup> day following the end of the reporting period. [40 CFR 60.48c(j)]
- d. The permittee shall include with the Notification of Compliance Status a signed certification that the energy assessment was completed according to 40 CFR 63, Subpart DDDDD, Table 3 and is an accurate depiction of the facility at the time of the assessment. [40 CFR 63.7530(e)]
- e. The permittee shall submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.7545(e). [40 CFR 63.7530(f)]
- f. The permittee shall report each instance in which the permittee did not meet each emission limit and operating limit in Tables 1 through 4 or 11 through 15 of 40 CFR 63, Subpart DDDDD that apply. These instances are deviations from the emission limits or operating limits, respectively, in 40 CFR 63, Subpart DDDDD. These deviations must be reported according to the requirements in 40 CFR 63.7550. [40 CFR 63.7540(b)]
- g. For the initial compliance demonstration for each boiler or process heater, the permittee shall submit the Notification of Compliance Status before the close of business on the 60th day following the completion of all initial compliance demonstrations for all boiler or process heaters at the facility according to 40 CFR 63.10(d)(2). The Notification of Compliance Status must only contain the information specified in 40 CFR 63.7545(e)(1) and (8) and must be submitted within 60 days of the compliance date specified at 40 CFR 63.7495. [40 CFR 63.7545(e)]
  - i. A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with 40 CFR 63, Subpart DDDDD, description of the fuel(s) burned, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3 of this chapter, and justification for the selection of fuel(s) burned during the compliance demonstration. [40 CFR 63.7545(e)(1)]

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

- ii. In addition to the information required in 40 CFR 63.9(h)(2), the notification of compliance status must include the following certification(s) of compliance, as applicable, and signed by a responsible official: [40 CFR 63.7545(e)(8)]
  - 1) “This facility completed the required initial tune-up for all of the boilers and process heaters covered by 40 CFR part 63 subpart DDDDD at this site according to the procedures in 40 CFR 63.7540(a)(10)(i) through (vi).” [40 CFR 63.7545(e)(8)(i)]
  - 2) “This facility has had an energy assessment performed according to 40 CFR 63.7530(e).” [40 CFR 63.7545(e)(8)(ii)]
  - 3) Except for units that burn only natural gas, refinery gas, or other gas 1 fuel, or units that qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act, include the following: “No secondary materials that are solid waste were combusted in any affected unit.” [40 CFR 63.7545(e)(8)(iii)]
  
- h. For EU 7.5, if the permittee intends to use a fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart of part 63, part 60, 61, or 65, or other gas 1 fuel to fire the affected unit during a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575, the permittee must submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575. The notification must include the information specified in 40 CFR 63.7545(f)(1) through (5). [40 CFR 63.7545(f)]
  - i. Company name and address. [40 CFR 63.7545(f)(1)]
  - ii. Identification of the affected unit. [40 CFR 63.7545(f)(2)]
  - iii. Reason the permittee is unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared or the natural gas supply interruption began. [40 CFR 63.7545(f)(3)]
  - iv. Type of alternative fuel that the permittee intends to use. [40 CFR 63.7545(f)(4)]
  - v. Dates when the alternative fuel use is expected to begin and end. [40 CFR 63.7545(f)(5)]
  
- i. Unless the EPA Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), the permittee shall submit each report, according to 40 CFR 63.7550(h), by the date in 40 CFR 63, Subpart DDDDD, Table 9 and according to the requirements in 40 CFR 63.7550(b)(1) through (4). For units that are subject only to a requirement to conduct annual tune-ups according to 40 CFR 63.7540(a)(10), the permittee may submit only an annual compliance report, as applicable, as specified in 40 CFR 63.7550(b)(1) through (4), instead of a semi-annual compliance report. [40 CFR 63.7550(b)]
  - i. The first compliance report shall cover the period beginning on the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495 and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days after the compliance date that is specified for the source in 40 CFR 63.7495. If submitting an annual compliance report, the first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495 and ending on December 31 within 1 year after the compliance date that is specified for the source in 40 CFR 63.7495. [40 CFR 63.7550(b)(1)]

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

- ii. The first semi-annual compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495. The first annual compliance report shall be postmarked or submitted no later than January 31. [40 CFR 63.7550(b)(2)]
  - iii. Each subsequent semi-annual compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual compliance reports shall cover the applicable 1-year period from January 1 to December 31. [40 CFR 63.7550(b)(3)]
  - iv. Each subsequent semi-annual compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. Annual compliance reports shall be postmarked or submitted no later than January 31. [40 CFR 63.7550(b)(4)]
  - v. The permittee may submit the first and subsequent compliance reports according to the dates the Division has established in Section F of the permit instead of according to the dates in 40 CFR 63.7550(b)(1) through (4). [40 CFR 63.7550(b)(5)]
- j. A compliance report must contain the following information: [40 CFR 63.7550(c)]
- i. The permittee must submit a compliance report with the information in 40 CFR 63.7550(c)(5)(i) through (iii), (xiv) and (xvii). [40 CFR 63.7550(c)(1)]
    - 1) Company and Facility name and address. [40 CFR 63.7550(c)(5)(i)]
    - 2) Process unit information, emissions limitations, and operating parameter limitations. [40 CFR 63.7550(c)(5)(ii)]
    - 3) Date of report and beginning and ending dates of the reporting period. [40 CFR 63.7550(c)(5)(iii)]
    - 4) Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10). Include the date of the most recent burner inspection if it was not done annually and was delayed until the next scheduled or unscheduled unit shutdown. [40 CFR 63.7550(c)(5)(xiv)]
    - 5) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. [40 CFR 63.7550(c)(5)(xvii)]
- k. For each deviation from an operating limit in 40 CFR 63, Subpart DDDDD, that occurs at an individual boiler or process heater, or from work practice standards for periods of startup or shutdown, the compliance report must additionally contain the information required in 40 CFR 63.7550(d)(1) and (2). [40 CFR 63.7550(d)]
- i. A description of the deviation and which operating limit or work practice standard from which the permittee deviated. [40 CFR 63.7550(d)(1)]
  - ii. Information on the number, duration, and cause of deviations (including unknown cause), as applicable, and the corrective action taken. [40 CFR 63.7550(d)(2)]
- l. Refer to **SECTION F** for general reporting requirements.

**SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Emission Units 7.7, 7.8, 7.9, & 8.0 – New Indirect Heat Exchangers****Description:**

Eleven makeup air handler units.

**Emission Unit 7.7 – MAU 1-3 Makeup Air Handling Units**

**Rated Capacity:** 2.8 MMBtu/hour each

**Construction Commenced:** 2016

**Control Device:** None

**Emission Unit 7.8 – MAU 5 –Makeup Air Handler Unit**

**Rated Capacity:** 2.0 MMBtu/hour

**Construction Commenced:** 2016

**Control Device:** None

**Emission Unit 7.9 – MAU 6-8 Makeup Air Handler Units**

**Rated Capacity:** 3.521 MMBtu/hour each

**Construction Commenced:** 2016

**Control Device:** None

**Emission Unit 8.0 – MAU 9-12 Makeup Air Handler Units**

**Rated Capacity:** 5.2 MMBtu/hour each

**Construction Commenced:** 1998

**Control Device:** None

**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:**

- a. During a startup period or 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]
  - i. The permittee shall comply with 401 KAR 50:055, Section 2(5); [401 KAR 59:015, Section 7(1)(a)]
  - ii. 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)]
  - iii. 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)]
  - iv. The actions, including duration of the startup period, of the permittee during startup and shutdown periods, shall be documented in signed, contemporaneous logs or other relevant evidence; [401 KAR 59:015, Section 7(1)(d)]



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

- v. Startups and shutdowns shall be conducted according to either: [401 KAR 59:015, Section 7(1)(e)]
  - 1) The manufacturer's recommended procedures; or [401 KAR 59:015, Section 7(1)(e)1.]
  - 2) 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 permittee. [401 KAR 59:015, Section 7(1)(e)2.]

**Compliance Demonstration Method:**

Compliance shall be demonstrated according to **5. Specific Recordkeeping Requirements (b).**

**2. Emission Limitations:**

- a. **Mass Emission Standard:** The permittee shall not cause emissions of particulate matter in excess of the following: [401 KAR 59:015, Section 4(1)(c)]
  - i. For EU 7.7: 0.31 lb/MMBtu actual heat input;
  - ii. For EU 7.8: 0.31 lb/MMBtu actual heat input;
  - iii. For EU 7.9: 0.31 lb/MMBtu actual heat input;
  - iv. For EU 8.0: 0.36 lb/MMBtu actual heat input.
- a. **VOC Emission Standard:** Refer to **SECTION D** for source-wide emission limitations.
- b. **Opacity Standard:** The permittee shall not cause emissions of particulate matter in excess of 20 percent. [401 KAR 59:015, Section 4(2)]
- c. **SO<sub>2</sub> Standard:** The permittee shall not cause emissions of gases that contain sulfur dioxide in excess of the following: [401 KAR 59:015, Section 5(1)(c)(2.)]
  - i. For EU 7.7: 1.09 lb/MMBtu actual heat input;
  - ii. For EU 7.8: 1.09 lb/MMBtu actual heat input;
  - iii. For EU 7.9: 1.09 lb/MMBtu actual heat input;
  - iv. For EU 8.0: 1.40 lb/MMBtu actual heat input;

**Compliance Demonstration Method:**

- A. The source is assumed to be in compliance with the PM, Opacity, and SO<sub>2</sub> limits when the emission units listed above are burning natural gas and are properly maintained.
- B. Refer to **SECTION D** for compliance with the VOC emission standard.
- C. 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.

**SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****3. Testing Requirements:**

Pursuant to 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the reference methods specified in 401 KAR 50:015 shall be conducted if required by the Cabinet.

**4. Specific Monitoring Requirements:**

- a. The permittee shall use a fuel metering device to continuously monitor the amount of natural gas (MMscf) fed to the makeup air handling units. The permittee may use a combined meter for multiple emission units, as long as 100% of the total natural gas emissions are appointed to each emission point based on usage. [401 KAR 52:020, Section 10]
- b. Refer to **SECTION F** for general monitoring requirements.

**5. Specific Recordkeeping Requirements:**

- a. The permittee shall maintain records of the following: [401 KAR 52:020, Section 10]
  - i. The monthly natural gas usage in million cubic feet;
  - ii. The monthly and 12-month rolling total emissions of VOC.
- b. 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 action taken. [401 KAR 52:020, Section 10]
- c. Refer to **SECTION F** for general recordkeeping requirements.

**6. Specific Reporting Requirements:**

Refer to **SECTION F** for general reporting requirements.

**SECTION C - INSIGNIFICANT ACTIVITIES**

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

<u>Description</u>	<u>Generally Applicable Regulation</u>
1. Plastic Line Extruders (Using Polyethylene and/or Polypropylene)	None
2. Lacquer Application Line 7815	401 KAR 63:020
3. Two Non-Contact Cooling Towers	401 KAR 59:010
4. Two Aluminum Cladding Lines with Two Welders (Con't Lox Armor)	401 KAR 61:020
5. Wire Stranding Lines 803, 864, 829, 865, 7201, 7202, & 7203	None
6. Wire Tin Line 841 (Heater rated at 0.75 MMBtu)	401 KAR 63:010; 401 KAR 63:020
7. Glue Line 7870 & 7837	None
8. Storage Silos for PVC or Polyethylene Pellets	401 KAR 63:010
9. No. 2 Fuel Oil Tank (20,000 gal)	None
10. Roll Mill Line 7101	None
11. Stolberger KOA Strander	None
12. SKET Central Strander	None
13. Three Evaporators (Model 240G) (0.285 MMBtu, each)	401 KAR 63:020
14. Front Office Hot Water Heater (0.199 MMBtu)	401 KAR 63:020
15. Wire Drawing Lines 800, 801, 802, 7102, & 7103 With Eight Oil Mist Eliminators	None
16. Breakroom Space Heater (0.2 MMBtu)	401 KAR 63:020
17. Cabler Lines 867 & 863	None

**SECTION C - INSIGNIFICANT ACTIVITIES (CONTINUED)**

<u>Description</u>	<u>Generally Applicable Regulation</u>
18. Shield Lines 846, 848, 7501, & 7502	None
19. Three Non-oil Powder Applicators	None
20. SKET Drum Twister Cablers 7401 & 7402	None
21. PowderTech Electrostatic Dusting Machines (4)	401 KAR 63:020
22. Silicone Applicator for Extruder 891	None

## 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. PM, SO<sub>2</sub>, VOC, and Opacity 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 emissions shall not exceed 90 tons/year based on a 12-month rolling total. [To preclude major source status for VOCs under 401 KAR 52:020]

### Compliance Demonstration Method:

The permittee shall calculate, monthly, the source-wide VOC emissions using the following equation.

$$\sum_{j=1}^n \left( \frac{P_{ij} * EF_j}{2000} \right) * \frac{A_j}{100} * \left[ 1 - \left( \frac{B_j}{100} \right) \right] = X_i$$

$$\sum_{i=1}^{12} X_i \leq 90 \text{ TPY}$$

Where:

i is the month

j is the emission point

n is the total number of emission points

P<sub>ij</sub> is the hourly process rate for month i at emission point j,

EF<sub>j</sub> is the approved VOC emission factor at emission point j in lbs/process rate unit,

A<sub>j</sub> is the capture efficiency at emission point j,

B<sub>j</sub> is the control efficiency of any control device at emission point j, and

X<sub>i</sub> is the source-wide total tons per month of VOC emissions.

This calculation includes all emission points in Section B that emit VOCs and any insignificant activities that emit VOCs.

## **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;
  - 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 following addresses:

Division for Air Quality  
Frankfort Regional Office  
300 Sower Boulevard, 1st Floor  
Frankfort, KY 40601

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

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

## SECTION G - GENERAL PROVISIONS

### 1. General Compliance Requirements

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

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

- d. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the conditions of this permit [Sections 1a- 7 and 8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- e. Emission units described in this permit shall demonstrate compliance with applicable requirements if requested by the Division [401 KAR 52:020, Section 3(1)(c)].

**SECTION G - GENERAL PROVISIONS (CONTINUED)**

- f. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].
- g. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a-14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- h. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a-4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- i. All emission limitations and standards contained in this permit shall be enforceable as a practical matter. All emission limitations and standards contained in this permit are enforceable by the U.S. EPA and citizens except for those specifically identified in this permit as state-origin requirements. [Section 1a-15 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- j. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a-10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- k. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3) b.].
- l. This permit does not convey property rights or exclusive privileges [Section 1a-9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- m. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Cabinet or any other federal, state, or local agency.
- n. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3) d.].
- o. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3) a.].

**SECTION G - GENERAL PROVISIONS (CONTINUED)**

- p. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.
- q. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with:
  - (1) Applicable requirements that are included and specifically identified in this permit; and
  - (2) Non-applicable requirements expressly identified in this permit.

**2. Permit Expiration and 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**

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the construction of the equipment described herein, modifications to emission points EP 808, EP 809, EP 7301, EP 7302, in accordance with the terms and conditions of the permit (V-24-003).

- a. Construction of any process and/or air pollution control equipment authorized by this permit shall be conducted and completed only in compliance with the conditions of this permit.
- b. Within thirty (30) days following commencement of construction and within fifteen (15) days following start-up and attainment of the maximum production rate specified in the permit application, or within fifteen (15) days following the issuance date of this permit, whichever is later, the permittee shall furnish to the Regional Office listed on the front of this permit in writing, notification of the following:
  - (1) The date when construction commenced.
  - (2) The date of start-up of the affected facilities listed in this permit.
  - (3) The date when the maximum production rate specified in the permit application was achieved.
- c. Pursuant to 401 KAR 52:020, Section 3(2), unless construction is commenced within eighteen (18) months after the permit is issued, or begins but is discontinued for a period of eighteen (18) months or is not completed within a reasonable timeframe then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon written request, the Cabinet may extend these time periods if the source shows good cause.
- d. Pursuant to 401 KAR 50:055, Section 2(1)(a), an owner or operator of any affected facility subject to any standard within the administrative regulations of the Division for Air Quality shall demonstrate compliance with the applicable standard(s) within sixty (60) days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial start-up of such facility. Pursuant to 401 KAR 52:020, Section 3(3)(c), sources that have not demonstrated compliance within the timeframes prescribed in 401 KAR 50:055, Section 2(1)(a), shall operate the affected facility only for purposes of demonstrating compliance unless authorized under an approved compliance plan or an order of the cabinet.
- e. This permit shall allow time for the initial start-up, operation, and compliance demonstration of the affected facilities listed herein. However, within sixty (60) days after achieving the maximum production rate at which the affected facilities will be operated but not later than 180 days after initial start-up of such facilities, the permittee shall conduct a performance demonstration on the affected facilities in accordance with 401 KAR 50:055, General compliance requirements. Testing must also be conducted in accordance with General Provisions G.5 of this permit.

**SECTION G - GENERAL PROVISIONS (CONTINUED)**

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

**5. Testing Requirements**

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

**6. Acid Rain Program Requirements**

- a. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.
- b. The permittee shall comply with all applicable requirements and conditions of the Acid Rain Permit and the Phase II permit application (including the Phase II NO<sub>x</sub> 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.

**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:

**SECTION G - GENERAL PROVISIONS (CONTINUED)**

- (1) An emergency occurred and the permittee can identify the cause of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
  - (4) Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.1-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
  - (5) This requirement does not relieve the source of other local, state or federal notification requirements.
- b. Emergency conditions listed in General Condition G.7.a above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].
- c. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].
8. Ozone Depleting Substances
- a. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
    - (1) Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
    - (2) Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
    - (3) Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
    - (4) Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.155.
    - (5) Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156 and 40 CFR 82.157.
    - (6) Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
  - 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*.

## **SECTION G - GENERAL PROVISIONS (CONTINUED)**

### 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**

N/A