

**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:** Central Motor Wheel of America Inc.  
**Mailing Address:** 125 Wheat Drive, Paris, KY 40361

**Source Name:** Central Motor Wheel of America Inc.  
**Mailing Address:** 125 Wheat Drive  
Paris, KY 40361

**Source Location:** 125 Wheat Drive

**Permit:** V-16-025 R2  
**Agency Interest:** 290  
**Activity:** APE20200002, APE20200003  
**Review Type:** Title V, Construction/Operating  
**Source ID:** 21-017-00025

**Regional Office:** Frankfort Regional Office  
300 Sower Blvd, 1<sup>st</sup> Floor  
Frankfort, KY 40601  
(502) 564-3358

**County:** Bourbon

**Application**  
**Complete Date:** June 10, 2016  
**Issuance Date:** January 5, 2017  
**Revision Date:**  
**Expiration Date:** January 5, 2022

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**Melissa Duff, Director  
Division for Air Quality**

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	Permit type	Activity#	Complete Date	Issuance Date	Summary of Action
V-16-025	Renewal	APE20160002	6/10/2016	1/5/2017	Renewal Permit
V-16-025 R1	Significant Revision	APE20190002	8/21/2019	1/4/2020	Add two aluminum melt furnaces and associated equipment with the PROACE paint line
V-16-025 R2	Significant Revision	APE20200002 & APE20200003	8/24/2020 & 12/22/2020		Remove Subpart RRR requirements for aluminum melt furnaces; Add one 10.0 MMBtu/hr boiler

## **SECTION A - PERMIT AUTHORIZATION**

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

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

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

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

Emission Unit	Description	Capacity	Fuel	Date Installed
10	Cleaver Brooks CB 700-350, Process Heat Boiler	14.65 MMBtu/hr	Natural Gas	Nov 1995
51	York Shipley Global Model, H3D-100-W125-LB-CFB, Process Heat Boiler	5.40 MMBtu/hr		March 2012
69	Burnham Model 3PW-125, Pretreatment Boiler	5.20825 MMBtu/hr		July 2017
79	Bryan Model EB240, Hot Water Boiler	10.0 MMBtu/hr		Projected 2021

### 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, applies to EU 10 and 79 only.

**401 KAR 63:002, Section 2(4)(iii)** 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 each work practice standard in Table 3 to 40 CFR 63, Subpart DDDDD that applies to each boiler except as provided under 40 CFR 63.7522. [40 CFR 63.7500(a)(1)]
- b. At all times, the permittee shall operate and maintain the affected source, 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 Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.7500(a)(3)]

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

- c. The permittee shall conduct a tune-up of EP 10 and 79 once annually and EP 51 and 69 once every two years to demonstrate continuous compliance as specified in 40 CFR 63.7540(a)(10)(i)-(vi) and (11). This frequency does not apply to limited-use boilers and process heaters, as defined in 40 CFR 63.7575, or units with continuous oxygen trim systems that maintain an optimum air to fuel ratio. [40 CFR 63.7540(a)(10) and (11)]
  - i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the permittee may delay the burner inspection until the next scheduled unit shutdown);
  - ii. 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;
  - iii. 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); and
  - iv. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.
  - v. 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
  - vi. Maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (a)(10)(vi)(A) through (C) of 40 CFR 63.7540:
    - 1) 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;
    - 2) A description of any corrective actions taken as a part of the tune-up; and
    - 3) 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 during that period. Units sharing a fuel meter may estimate the fuel used by each unit.
- d. If the unit is not operating on the required date for a tune-up, the tune-up shall be conducted within 30 calendar days of startup. [40 CFR 63.7540(a)(13)]
- e. The permittee shall conduct an annual performance tune-up for EP 10 and 79 according to 40 CFR 63.7540(a)(10). Each annual tune-up specified in 40 CFR 63.7540(a)(10) shall be no more than 13 months after the previous tune-up. For a new or reconstructed affected source (as defined in 40 CFR 63.7490), the first annual tune-up shall be no later than 13 months after the initial startup of the new or reconstructed affected source. [40 CFR 63.7515(d)]

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

- f. The permittee shall conduct a biennial performance tune-up for EP 51 and 69 according to 40 CFR 63.7540(a)(10)(i) through (iv). Each biennial tune-up required by 40 CFR 63.7540(a)(11) shall be no more than 25 months after the previous tune-up. For a new or reconstructed affected source (as defined in 40 CFR 63.7490), the first biennial tune-up shall be no later than 25 months after the initial startup of the new or reconstructed affected source. [40 CFR 63.7515(d)]
- g. As provided in 40 CFR 63.6(g), EPA may approve use of an alternative to the work practice standards in 40 CFR 63, Subpart DDDDD. [40 CFR 63.7500(b)]

### Compliance Demonstration Method:

- i. The permittee shall demonstrate continuous compliance with each work practice standard in Table 3 to 40 CFR 63, Subpart DDDDD according to the methods specified in Table 8 to 40 CFR 63, Subpart DDDDD and paragraphs (a)(1) through (19) of 40 CFR 63.7540. [40 CFR 63.7540(a)]
- ii. The permittee shall conduct a tune-up of each boiler or process heater as specified in 40 CFR 63.7540(a)(10)(i) through (vi) to demonstrate continuous compliance. [40 CFR 63.7540(a)(11)]

### 2. Emission Limitations:

- a. The permittee shall not exceed the following emission limitations. [401 KAR 59:015 Section 4(1) and Section 5(1)]

<b>Emission Unit</b>	<b>Unit Name</b>	<b>Pollutant</b>	<b>401 KAR 59:015 Limitation (lb/MMBtu)</b>
<b>10</b>	Cleaver Brooks, CB 700-350 Process Heat Boiler	PM	0.51
		SO <sub>2</sub>	2.56
<b>51</b>	York Shipley Global Model H3D-100-W125-LB-CFB	PM	0.47
		SO <sub>2</sub>	2.25
<b>69</b>	Burnham Model 3PW-125	PM	0.45
		SO <sub>2</sub>	2.05
<b>79</b>	Bryan Model EB240	PM	0.41
		SO <sub>2</sub>	1.78

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

While burning natural gas the permittee shall be deemed to be in compliance with the particulate and sulfur dioxide emission standards specified above.

- b. Visible emissions from each boiler shall not exceed 20% opacity, except as follows: [401 KAR 59:015 Section 4(2)]
  - i. A maximum of 40% opacity shall be allowed for a maximum of six (6) consecutive minutes in any sixty (60) consecutive minutes during fire box cleaning or soot blowing; and [401 KAR 59:015 Section 4(2)(b)]
  - ii. Emissions during the period required to bring the boiler up to operating conditions shall be allowed, if the method used is recommended by the manufacturer and the time does not exceed the manufacturer's recommendations. [401 KAR 59:015 Section 4(2)(c)]

**Compliance Demonstration Method:**

While burning natural gas the permittee shall be deemed to be in compliance with the opacity standards specified above. The permittee shall keep annual (calendar year) records of the types of fuels burned.

- c. Boilers and process heaters in units designed to burn natural gas are not subject to the emission limits in Tables 1 and 2 or 11 through 13 to 40 CFR 63, Subpart DDDDD, or the operating limits in Table 4 to 40 CFR 63, Subpart DDDDD. [40 CFR 63.7500(e)]

**3. Testing Requirements:**

Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 50:045 and 401 KAR 59:005.

**4. Specific Monitoring Requirements:**

The permittee shall monitor monthly natural gas usage for each unit.

**5. Specific Recordkeeping Requirements:**

- a. The permittee shall either: [40 CFR 60.48c(g)] (applies only to EP 10 and 79)
  - i. Record and maintain records of the amount of each fuel combusted during each operating day; or
  - ii. Elect to record and maintain records of the amount of each fuel combusted during each calendar month.
- b. The permittee shall record and retain 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 the permittee submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). [40 CFR 63.7555(a)(1)]

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

- c. The permittee shall record and retain 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)]
- d. The following requirements shall be met: [40 CFR 63.7560]
  - i. Records shall be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1).
  - ii. 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.
  - iii. The permittee shall keep each record on site, or they shall 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 may keep the records off site for the remaining 3 years.
- e. The permittee shall maintain monthly records of natural gas usage.

**6. Specific Reporting Requirements:**

- a. The permittee shall meet the notification requirements in 40 CFR 63.7545 according to the schedule in 40 CFR 63.7545 and in 40 CFR 63, Subpart A. Some of the notifications shall be submitted before the permittee is required to comply with the work practice standards in 40 CFR 63, Subpart DDDDD. [40 CFR 63.7495(d)]
- b. The permittee shall submit a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii). For the initial compliance demonstration for each boiler or process heater, the permittee shall submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of all performance test and/or other 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 report shall contain all the information specified in 40 CFR 63.7545(e)(1) through (8), as applicable. If the permittee is not required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530(a), the Notification of Compliance Status shall only contain the following information: [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, including whether the fuel(s) were a secondary material determined by the permittee or the EPA through a petition process to be a non-waste under 40 CFR 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, 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 shall include the following certification(s) of compliance, as applicable, and signed by a responsible official: [40 CFR 63.7545(e)(8)]

“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)]

- c. The permittee shall include with the Notification of Compliance Status a signed certification that the energy assessment was completed according to Table 3 of 40 CFR 63, Subpart DDDDD and is an accurate depiction of the permittee’s facility at the time of the assessment. [40 CFR 63.7530(e)]
- d. 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. [40 CFR 63.7530(f)]
- e. The permittee shall submit to the Administrator all of the notifications in 40 CFR 63.7(b) and (c), 40 CFR 63.8(e), (f)(4) and (6), and 40 CFR 63.9(b) through (h) that apply by the dates specified. [40 CFR 63.7545(a)]
- f. If the permittee switches fuels or makes a physical change to the boiler and the fuel switch or physical change resulted in the applicability of a different subcategory, the permittee shall provide notice of the date upon which the permittee switched fuels or made the physical change within 30 days of the switch/change. The notification shall identify: [40 CFR 63.7545(h)]
  - i. The name of the permittee, as defined in 40 CFR 63.7490, the location of the source, the boiler(s) and process heater(s) that have switched fuels, were physically changed, and the date of the notice.
  - ii. The currently applicable subcategory under 40 CFR 63, Subpart DDDDD.
  - iii. The date upon which the fuel switch or physical change occurred.
- g. The Frankfort Regional Office shall be notified of modifications (as defined in 401 KAR 59:001) to this affected facility. This notice shall be sent 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Cabinet may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4), 401 KAR 59:005 Section 3(1)(d)]
- h. The permittee shall submit each report required by Table 9 to 40 CFR 63, Subpart DDDDD electronically using CEDRI that is accessed through the EPA’s Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)). However, if the reporting form specific to 40 CFR 63, Subpart DDDDD is not available in CEDRI at the time that the report is due the permittee shall submit the report to the Administrator at the appropriate address listed in 40 CFR 63.13. At the discretion of the Administrator, the permittee may also submit

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

these reports to the Administrator in the format specified by the Administrator. [40 CFR 63.7550(a), 40 CFR 63.7550(h)(3)]

- 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 paragraph (h) of 40 CFR 63.7550, by the date in Table 9 to 40 CFR 63, Subpart DDDDD and according to the requirements in paragraphs (b)(1) through (4) of 40 CFR 63.7550. For units that are subject only to a requirement to conduct an annual (EP 10 and EP 79) or biennial (EP 51 and EP 69), according to 40 CFR 63.7540(a)(10) or (11) respectively, and not subject to emission limits or operating limits, the permittee may submit only an annual or biennial compliance report, as specified in paragraphs (b)(1) through (4) of 40 CFR 63.7550, 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 December 31, within 1 or 2 years as applicable after the compliance date that is specified for the permittee in 40 CFR 63.7495.
  - ii. The first annual or biennial compliance report shall be postmarked or submitted no later than January 31.
  - iii. Each subsequent annual or biennial compliance report shall cover the applicable 1- or 2- year periods from January 1 to December 31.
  - iv. Each subsequent annual or biennial compliance report shall be postmarked or submitted no later than January 31.
- j. A compliance report shall contain the following information: [40 CFR 63.7550(c)(1)]
  - i. Company and Facility name and address.
  - ii. Process unit information, emissions limitations, and operating parameter limitations.
  - iii. Date of report and beginning and ending dates of the reporting period.
  - iv. The total operating time during the reporting period.
  - v. 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.
  - vi. Statement by responsible official with that official's name, title and signature, certifying the truth, accuracy, and completeness of the content of the report
- k. The permittee shall report each instance in which a work practice standard in Table 3 to 40 CFR 63, Subpart DDDDD was not met. These deviations shall be reported according to the requirements in 40 CFR 63.7550. [40 CFR 63.7540(b)]

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

### CMC Paint Line

Emission Unit Number	Description/Process Equipment	Date Installed	Control Equipment	Applicable Regulations
02 (V18)	Steel Paint Mix Room / Circulation tanks, Solvent tanks, Process and Handling Operations	1987		401 KAR 59:225 40 CFR 63 Subpart MMMM
03 (B-4)	Parts Cleaning / Thirteen Stage Parts Washer	11/1987		
04 (B-5)	E-Coat Painting	12/1987		401 KAR 59:225 40 CFR 63 Subpart MMMM
05 (B-5A)	Setting Zone / Water Spray	12/1987		
06 (B-6)	E-Coat Cure Oven / 5.1 MM BTU/hr Gas Fired Oven	11/1987		401 KAR 59:225 40 CFR 63 Subpart MMMM
07 (B-8)	Top Coat Booth / 4 bell/turbine atomization guns	01/2013	3 Stage Over Spray Filters	401 KAR 59:010 401 KAR 59:225 40 CFR 63 Subpart MMMM
08 (B-9)	Paint Cure Oven / 5.1 MM BTU/hr Gas Fired Oven	12/1987		401 KAR 59:225 40 CFR 63 Subpart MMMM

#### APPLICABLE REGULATIONS:

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

**401 KAR 59:225**, New miscellaneous metal parts and products surface coating operations.

**401 KAR 63:002, Section 2(4)(rrr)** 40 C.F.R. 63.3880 to 63.3981, Tables 1 to 4, and Appendix A (Subpart MMMM), National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

#### 1. Operating Limitations:

- a. The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2.
- b. Wherever practicable, the permittee should utilize work practices to minimize emissions from non-process cleaning activities.
- c. The permittee shall install, maintain, and operate its control equipment in accordance with manufacturers' recommendations and/or good engineering practice.

#### 2. Emission Limitations:

##### **401 KAR 59:010 Section 3(1) Requirements:**

- a. 401 KAR 59:010 Section 3(1) – Visible emissions from a control device or stack associated with any affected facility shall not equal or exceed 20% opacity.

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

- b. 401 KAR 59:010 Section 3(2) – Particulate matter emissions from a control device or stack associated with any affected facility shall not equal or exceed the emission rate determined by the following equation:  $E = 3.59 \times P^{0.62}$

Where,

E = Emission rate in pounds per hour.

P = Process weight rate to the affected facility in tons per hour.

Process Weight: The total weight of all materials introduced into any affected facility which may cause any emission of particulate matter, but does not include liquid and gaseous fuel charged, combustion air, or uncombined water.

Affected Facility: The last operation preceding the emission of air contaminants, which results:

- 1) In the separation of the air contaminant from the process materials; or
- 2) In the conversion of the process materials into air contaminants, but does not include an air pollution abatement operation.

If  $P \leq 0.50$  tons per hour, then  $E = 2.34$  pounds per hour.

**Compliance Demonstration Method:**

Compliance with the opacity and mass standards shall be demonstrated by adhering to the monitoring, record keeping and specific control equipment operating requirements specified in the Sections B.4, B.5 and B.7 below.

**Equipment Subject to 401 KAR 59:225: EP 02, 04, 06, 07, and 08**

- c. An affected facility shall be exempt from the provisions of Section 3 of this administrative regulation if the VOC content of the coating is less than 0.42 kg/l of coating (three and five-tenths (3.5) lb/gal), excluding water or exempt solvent or both, delivered to applicators associated with air or forced air-dried items or items subject to outdoor or harsh exposure or extreme environmental conditions. [401 KAR 59:225 Section 6(1)(b)]

**Compliance Demonstration Method:**

The permittee shall maintain records of the VOC content of coatings, thinners and/or other additives for the purpose of calculating the VOC content of the coating as applied.

- d. Synthetic Minor Limit on VOC emissions. See Section D.3.

**Equipment Subject to 40 CFR 63 Subpart MMMM: EP 02, 04, 06, 07, and 08**

- e. Organic HAP emissions to the atmosphere from the affected source shall not be more than 0.31 kg (2.6 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period. [40 CFR 63.3890(b)(1)]

**SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Emission Limitations (Continued):****Compliance Demonstration Method:**

The permittee shall demonstrate that the organic HAP content of each coating used in the coating operations is less than or equal to the applicable emission limit stated above, and that each thinner and/or other additive, and cleaning material used contains no organic HAP. [40 CFR 63.3891(c)]

**Initial Compliance Demonstration:**

- 1) Determine the mass fraction of organic HAP for each material. [40 CFR 63.3951(a)]
- 2) Determine the volume fraction of coating solids. [40 CFR 63.3951(b)]
- 3) Determine the density of each material. [40 CFR 63.3951(c)]
- 4) Determine the organic HAP content of each coating. [40 CFR 63.3951(d)]
- 5) Compliance demonstration. [40 CFR 63.3951(e)]

**Continuous Compliance:**

- 1) The permittee shall use no coating for which the organic HAP content (determined using Equation 2 of 40 CFR 63.3951) exceeds the applicable emission limit, and use no thinner and/or other additive, or cleaning material that contains organic HAP. A compliance period consists of rolling 12 months. [40 CFR 63.3952(a)]
- 2) See monitoring and record keeping requirements in Sections 4. and 5., respectively.
- 3) See semi-annual reporting requirements in Section 6.

**3. Testing Requirements:**

Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 Section 2(2) and 50:045 Section 4.

**4. Specific Monitoring Requirements:**

- a. The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit.

**For Emission Point No. 07 (Topcoat Booth):**

- b. Compliance with the opacity standard shall be determined by the permittee performing a qualitative visual observation during daylight hours of the opacity of emissions at each stack no less than weekly and maintaining a log of the observations. If visible emissions from the stacks are seen (not including condensed water in the plume), then an inspection of control equipment shall be initiated and corrective action taken. If visible emissions are present after the corrective action, the permittee may determine the opacity using Reference Method 9.
- c. The pressure drop of the three stage filter system shall be monitored daily to ensure it is within manufacturer's specification.
- d. A visual inspection of the three stage filter system shall be conducted daily.

**SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****5. Specific Recordkeeping Requirements:****401 KAR 59:010 Section 3(1) Requirements:**

- a. The permittee shall maintain a log of the visual observations noting date, time and initials of observers, records of corrective actions taken as a result of visible emissions from a stack and records of any Reference Method 9 readings performed.
- b. Records documenting the results of any required inspection and repair, as a result of a recorded opacity over 20% shall be maintained.
- c. The permittee shall keep manufacturer's specification and/or current good engineering practice procedures of control equipment on site.
- d. Records of the pressure drop including the time, date, identity of the personnel making the record for the first and second stage filters located on the ground level shall be maintained.
- e. Records of the pressure drop including the time, date, identity of the personnel making the record for the third stage filters on the roof shall be maintained.

**Equipment Subject to 401 KAR 59:225: EP 02, 04, 06, 07, and 08**

- f. Records of the VOC content of coatings as applied shall be maintained.
- g. Record of the calculation spreadsheet that contains the usage of coatings, thinners, other additives, and their VOC content shall be maintained.

**Equipment Subject to 40 CFR 63 Subpart M: EP 02, 04, 06, 07, and 08**

- h. The permittee shall keep records in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.3931(a-c) and 63.10(b)(1)]
- i. A copy of each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report. [40 CFR 63.3930(a)]
- j. A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner and/or other additive, and cleaning material, and the volume fraction of coating solids for each coating shall be maintained. [40 CFR 63.3930(b)]
- k. A record of the calculation of the organic HAP content for each coating shall be maintained. [40 CFR 63.3930(b)]

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

The reporting requirement in Section F(5) shall be modified to include only the following:

- a. A detailed calculation spreadsheet that contains the usage of coatings, thinners, other additives, and their VOC content.
- b. See Sections F(7) and F(8) for further reporting requirements.

**Equipment Subject to 40 CFR 63 Subpart M MMM: EP 02, 04, 06, 07, and 08**

c. For equipment subject to 40 CFR Subpart M MMM, the permittee shall submit the following reports:

- 1) Initial Notification: The permittee has fulfilled this requirement through documentation submitted to U.S. EPA Region IV and the Division. [40 CFR 63.3910(b)]
- 2) Notification of performance test: The permittee has fulfilled this requirement through documentation submitted to U.S. EPA Region IV and the Division. [40 CFR 63.3910(c)]
- 3) Compliance Report: Each 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. Each subsequent compliance report must be postmarked no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. [40 CFR 63.3920(a)]
- 4) The report shall contain the applicable information contained in 40 CFR 63.3920(a)(1) through (5).

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

The following conditions shall apply to assure compliance with Emission Limitations A and B for Emission Point No. 7 (Topcoat Booth):

- a. Filters shall be in place at all times when a machine is applying coating.
- b. Filters shall be replaced when determined to be inefficient (as determined through visual inspection or pressure drop).
- c. The units shall be operated and maintained in accordance with the manufacturer's recommendations unless otherwise allowed in this permit.

**8. Alternate Operating Scenarios:**

None

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

### Machining Departments

Emission Unit Number	Description/Process Equipment	Date Installed	Control Equipment	Applicable Regulations
24 (SB-001)	Shot Blasters (CLA)	10/1998	Wet scrubber	401 KAR 59:010
25 (BRS-001 ~ 009)	Brush Deburr (CLA)	011-006:10/1998, 007:7/2008 008-009: 2011	Dust Collector 8-Ultra-Web Cartridge filters	401 KAR 59:010
44 (SB-004)	Shot Blaster (CLA)	12/2008	Wet Scrubber	401 KAR 59:010
55 (BRS-010 ~ 015)	Brush Deburr (PROACE)	11/2019	Dust Collector 8-Ultra-Web Cartridge filters	401 KAR 59:010
56 (SB-005)	Shot Blaster (PROACE)	11/2019	Wet Scrubber	401 KAR 59:010

### APPLICABLE REGULATIONS:

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

#### 1. Operating Limitations:

- a. The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2.
- b. The dust control systems shall be operated during blasting and deburring.
- c. The dust control systems shall be maintained in accordance with manufacturer's recommendations.
- d. Pressure drop in the dust control devices during blasting and deburring shall be in the range recommended by the manufacturer.

#### 2. Emission Limitations:

- a. 401 KAR 59:010 Section 3(1) – Visible emissions from a control device or stack associated with any affected facility shall not equal or exceed 20% opacity.
- b. 401 KAR 59:010 Section 3(2) – Particulate matter emissions from a control device or stack associated with any affected facility shall not equal or exceed 2.34 pounds per hour.

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

Compliance with the above emission limitations may be assumed given compliance with Operating Limitations A - D and the Monitoring, Record Keeping, and Reporting requirements specified in B.4, B.5 and B.6 below.

#### 3. Testing Requirements:

Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 Section 2(2) and 50:045 Section 4. In addition, once a calendar year, EPA Reference Method 9 or equivalent reading shall be performed.

#### 4. Specific Monitoring Requirements:

- a. The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit.



**SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Specific Monitoring Requirements (Continued):**

- b. Pressure drop readings for the dust collection systems shall be made at least once per week when blasting and/or deburring is being done for the purpose of verifying compliance with Operating Limitation 1.D.
- c. Compliance with the opacity standard shall be determined by the permittee performing a qualitative visual observation during daylight hours of the opacity of emissions at each stack no less than weekly and maintaining a log of the observations. If visible emissions from the stacks are seen (not including condensed water in the plume), then an inspection of control equipment shall be initiated and corrective action taken. If visible emissions are present after the corrective action, the permittee may determine the opacity using Reference Method 9.

**5. Specific Recordkeeping Requirements:**

- a. The permittee shall maintain a log of the visual observations noting date, time and initials of observers, records of corrective actions taken as a result of visible emissions from a stack and records of any Reference Method 9 readings performed.
- b. Records documenting the results of any required inspection and repair, as a result of a recorded opacity over 20% shall be maintained.
- c. The permittee shall maintain a log of the dust collection system's weekly pressure drop readings including the time, date, identity of the personnel making the record.
- d. All deviations from Operating Limitation 1.B shall be recorded and include date and time.
- e. The permittee shall keep manufacturer's specification and/or current good engineering practice procedures of control equipment on site.

**6. Specific Reporting Requirements:**

As part of compliance demonstration for Emission Limitations 1.A and 1.B, reporting requirement 5 in Section F shall be modified to require only a summary of the following:

- a. Differential pressure measurements outside of manufacturer's recommended values during the period for the dust collection systems;
- b. The manufacturer's recommended differential pressure range for the dust collection systems;
- c. Any filter replacements during the period;
- d. The results of the most recent Method 9 reading;
- e. And any other deviations from permit requirements for this emission point during the period.

This shall be done every 6 months and certified by a responsible official as specified in Section F requirement 5. See reporting requirements 6, 7, and 8 from Section F for additional reporting requirements.

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

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

See Operating Limitations above.

**8. Alternate Operating Scenarios:**

N/A

**SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****CLA: 067 Paint Line**

<b>Emission Point Number</b>	<b>Description/Process Equipment</b>	<b>Date Installed</b>	<b>Control Equipment</b>	<b>Applicable Regulations</b>
27 (L2)	Aluminum Pretreatment Dry Off Oven / 1.6 MMBTU/HR NG	10/1998		
28 (LCC)	Aluminum Powder Paint	10/1998		401 KAR 59:010
30 (L10)	Aluminum Paint Mix Room, Flushing and Cleaning Tanks	10/1998		401 KAR 59:225 40 CFR 63 Subpart Mmmm
31 (LC1)	Color Coat Booth / 1 bell /turbine atomization gun	10/1998	Over Spray Filters/ RTO No. 2	401 KAR 59:010 & 59:225, 40 CFR 63 Subpart Mmmm
32 (L5A)	Color Bake Oven / 5.0 MM BTU/hr NG Fired Oven	10/1998	RTO No. 2	401 KAR 59:225 40 CFR 63 Subpart Mmmm
33 (LC2)	Edge Clear Coat Booth / 1 bell/turbine atomizing gun	09/2012	Over Spray Filters / RTO No. 2	401 KAR 59:010 & 59:225, 40 CFR 63 Subpart Mmmm
34 (LC3)	Top Clear Booth / 1 bell/turbine atomizing gun	10/1998	Over Spray Filters / RTO No. 2	401 KAR 59:010 & 59:225, 40 CFR 63 Subpart Mmmm
35 (L9A)	Clear Bake Oven / 6.0 MM BTU/hr NG Fired Oven	10/1998	RTO No. 2	40 KAR 59:225, 40 CFR 63 Subpart Mmmm
36 (L7A)	Powder Bake Oven / 6.0 MM BTU/hr NG Fired Oven	10/1998		

**CLA: 068 Paint Line**

<b>Emission Point Number</b>	<b>Description/Process Equipment</b>	<b>Date Installed</b>	<b>Control Equipment</b>	<b>Applicable Regulations</b>
37 (DO)	Paint Line Dry-off Oven / 2.0 MM BTU/hr NG fired	01/2003		
38 (PCO)	Powder Coat Oven / 3.5 MM BTU/hr NG fired	01/2003		
39 (LCE, LCF & LCG)	Black Coat Booth / 2 bell / turbine atomizing guns	01/2003	Over Spray Filters/ RTO No. 2	401 KAR 59:010 & 59:225, 40 CFR 63 Subpart Mmmm
40 (BCO)	Black Coat Oven / 2.0 MM BTU/hr NG fired	01/2003	RTO No. 2	40 KAR 59:225, 40 CFR 63 Subpart Mmmm
41 (LCH, LCI & LCJ)	Color Coat Booth / 2 bell/turbine atomizing guns	07/2011	Over Spray Filters/ RTO No. 2	401 KAR 59:010 & 59:225, 40 CFR 63 Subpart Mmmm
42 (LCK & LCL)	Clear Coat Booth / 2 bell/turbine atomizing guns	01/2003	Over Spray Filters/ RTO No. 2	401 KAR 59:010 & 59:225, 40 CFR 63 Subpart Mmmm
43 (C&CCO)	Color & Clear Coat Oven / 4.0 MM BTU/hr NG fired	01/2003	RTO No. 2	401 KAR 59:225, 40 CFR 63 Subpart Mmmm
70	Pretreatment Dry-Off Oven/ 1.6 MMBTU/hr NG	01/2016		

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

<b>Emission Point Number</b>	<b>Description/Process Equipment</b>	<b>Date Installed</b>	<b>Control Equipment</b>	<b>Applicable Regulations</b>
57	Dry-Off Oven #1, 2.0 MMBtu/hr NG fired	11/2019		
58	Aluminum Powder Paint Operation	11/2019		401 KAR 59:010
59	Powder Coat Oven, 3.5 MMBtu/hr NG fired	11/2019		
60	Black Coat Booth, 2 bell/turbine atomization guns	11/2019	Water Curtains/ RTO No. 3	401 KAR 59:010 & 59:225, 40 CFR 63 Subpart MMMM
61	Black Coat Oven, 4.0 MMBtu/hr NG fired	11/2019	RTO No. 3	401 KAR 59:225, 40 CFR 63 Subpart MMMM
62	Color Coat Booth, 2 bell/turbine atomization guns	11/2019	Water Curtains/ RTO No. 3	401 KAR 59:010 & 59:225, 40 CFR 63 Subpart MMMM
63	Color Coat Oven, 2.0 MMBtu/hr NG fired	11/2019	RTO No. 3	401 KAR 59:225, 40 CFR 63 Subpart MMMM
64	Clear Coat Booth, 2 bell/turbine atomization guns	11/2019	Water Curtains/ RTO No. 3	401 KAR 59:010 & 59:225, 40 CFR 63 Subpart MMMM
65	Clear Coat Oven, 2.0 MMBtu/hr NG fired	11/2019	RTO No. 3	401 KAR 59:225, 40 CFR 63 Subpart MMMM
71	Aluminum Paint Mix Room, Flushing and Cleaning Tanks	11/2019		401 KAR 59:225 40 CFR 63 Subpart MMMM
72	Dry-Off Oven #2, 2.0 MMBtu/hr NG fired	11/2019		

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

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

**401 KAR 59:225**, New miscellaneous metal parts and products surface coating operations.

**401 KAR 63:002**, Section 2(4)(rrr) 40 C.F.R. 63.3880 to 63.3981, Tables 1 to 4, and Appendix A (Subpart MMMM), National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

**1. Operating Limitations:**

- a. The permittee shall limit material usage rate so as not to exceed source wide emission limitations in Section D.3.

**Compliance Demonstration Method:**

See monitoring and recordkeeping requirements in Sections B.4 and B.5 respectively, for the usage of coating materials.

**Equipment Subject to 40 CFR 63 Subpart MMMM: EP 30, 31, 32, 33, 34, 35, 39, 40, 41, 42, 43, 60, 61, 62, 63, 64, 65 and 71.**

- b. The permittee shall meet the operating limits specified in Table 1 to this subpart. See Section B.7. [40 CFR 63.3892(b)]
- c. The permittee must develop and implement a work practice plan to minimize organic HAP emissions from the storage, mixing, and conveying of coatings, thinners and/or other additives, and cleaning materials used in coating operations, and waste materials generated by the controlled coating operations. The plan must specify practices and procedures to ensure that, at a minimum, the elements specified in paragraphs (b)(1) through (5) of this section are implemented. [40 CFR 63.3893(b)]
  - 1) All organic-HAP-containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be stored in closed containers.
  - 2) Spills of organic-HAP-containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be minimized.
  - 3) Organic-HAP-containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be conveyed from one location to another in closed containers or pipes.
  - 4) Mixing vessels which contain organic-HAP-containing coatings and other materials must be closed except when adding to, removing, or mixing the contents.
  - 5) Emissions of organic HAP must be minimized during cleaning of storage, mixing, and conveying equipment.
- d. The permittee must always operate and maintain the affected source, including all air pollution control and monitoring equipment, according to the provisions in 40 CFR 63.6(e)(1)(i). [40 CFR 63.3900(b)]

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

- e. The permittee shall develop a written startup, shutdown, and malfunction plan according to the provisions in 40 CFR 63.6(e)(3). The plan must address the startup, shutdown, and corrective actions in the event of a malfunction of the emission capture system or the add-on control device. The plan must also address any coating operation equipment that may cause increased emissions or that would affect capture efficiency if the process equipment malfunctions, such as conveyors that move parts among enclosures. [40 CFR 63.3900(c)]
- f. The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference in 401 KAR 63:002 Section 3(a), apply to specific equipment listed in 40 CFR 63 Subpart M. Table 2 to Subpart M of Part 63 specifies the provisions of 40 CFR 63 Subpart A that apply and those that do not apply. [40 CFR 63.3901]

**2. Emission Limitations:****Equipment Subject to 401 KAR 59:010: EP 28, 31, 33, 34, 39, 41, 42, 58, 60, 62 & 64**

- a. 401 KAR 59:010 Section 3(1) – Visible emissions from a control device or stack associated with any affected facility shall not equal or exceed 20% opacity.
- b. 401 KAR 59:010 Section 3(2) – Particulate matter emissions from a control device or stack associated with any affected facility shall not equal or exceed the emission rate determined by the following equation:  $E = 3.59 \times P^{0.62}$

Where,

E = Emission rate in pounds per hour.

P = Process weight rate to the affected facility in tons per hour.

Process Weight: The total weight of all materials introduced into any affected facility which may cause any emission of particulate matter, but does not include liquid and gaseous fuel charged, combustion air, or uncombined water.

Affected Facility: The last operation preceding the emission of air contaminants, which results:

- a. In the separation of the air contaminant from the process materials; or
- b. In the conversion of the process materials into air contaminants, but does not include an air pollution abatement operation.

If  $P \leq 0.50$  tons per hour, then  $E = 2.34$  pounds per hour.

**Compliance Demonstration Method:**

Compliance with the opacity and mass standards shall be demonstrated by adhering to the monitoring, record keeping and specific control equipment operating requirements specified in B.4, B.5 and B.7 respectively below.

**Equipment Subject to 401 KAR 59:225: EP 30, 31, 32, 33, 34, 35, 39, 40, 41, 42, 43, 60, 61, 62, 63, 64, 65 and 71**

- c. 401 KAR 59:225 Section 3 – No person shall cause, allow, or permit an affected facility to discharge into the atmosphere more than fifteen (15) percent by weight of the VOCs net input into the affected facility.

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

### Emission Limitations (continued):

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

The permittee shall calculate VOC emission separately for each Paint Line

$$\text{Coating line control efficiency (\%)} = [1 - (\text{atmospheric VOC emissions/VOC net input})] \times 100$$

Where

$$\begin{aligned} \text{Atmospheric VOC emissions} = & [\Sigma \text{ daily 067 or 068 or PROACE Paint Line VOC net} \\ & \text{input (lbs)}] \times [\text{overall capture efficiency for paint} \\ & \text{line}] \times [1.0 - \text{overall control efficiency for paint line}] \\ & + [\text{maximum hours of operation per day from} \\ & \text{aluminum paint mixers}] \times [(\text{lb/hr}) \text{ VOC emission rate} \\ & \text{determined from the most recent emission factor} \\ & \text{estimate}] + [\text{maximum daily VOC emissions from} \\ & \text{other ancillary sources associated with the paint line} \\ & \text{(lbs)}] \end{aligned}$$

$$\begin{aligned} \text{VOC net input} = & [\Sigma \text{ daily 067 or 068 or PROACE Paint Line VOC input (lbs)}] + \\ & [(\text{maximum hours of operation per day of aluminum mixers}) \times \\ & [(\text{lb/hr}) \text{ emission rate determined from the most recent emission} \\ & \text{factor estimate}]] + [\text{maximum daily VOC emissions from other} \\ & \text{ancillary sources on line (lbs)}] \end{aligned}$$

The #067, #068 and PROACE Paint line control efficiency (%) is the value that is compared to the permit limitation of 85% control separately.

- d. Synthetic Minor Limit on VOC emissions. See Section D.3.
- e. Organic HAP emissions to the atmosphere from the affected source shall not be more than 0.31 kg (2.6 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period. [40 CFR 63.3890(b)(1)]

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

The permittee shall demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in the coating operations, and the emissions reductions achieved by emission capture systems and add-on controls, the organic HAP emission rate for the coating operations is less than or equal to the applicable emission limit, calculated as a rolling 12-month emission rate and determined on a monthly basis. [40 CFR 63.3891(c)]

#### **Initial compliance Demonstration:**

- 1) Compliance with operating limits. [40 CFR 63.3961(b)]
- 2) Compliance with work practice requirements. [40 CFR 63.3961(c)]
- 3) Compliance with emission limits. [40 CFR 63.3961(d)]

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

- 4) Determine the mass fraction of organic HAP, density, volume used, and volume fraction of coating solids. [40 CFR 63.3961(e)]
- 5) Calculate the total mass of organic HAP emissions before add-on controls. [40 CFR 63.3961(f)]
- 6) Calculate the organic HAP emission reduction for each controlled coating operation. [40 CFR 63.3961(g)]
- 7) Calculate the organic HAP emission reduction for each controlled coating operation. [40 CFR 63.3961(h)]
- 8) Calculate the total volume of coating solids used. [40 CFR 63.3961(k)]
- 9) Calculate the mass of organic HAP emissions for each month. [40 CFR 63.3961(l)]
- 10) Calculate the organic HAP emission rate for the compliance period. [40 CFR 63.3961(m)]
- 11) Compliance demonstration. [40 CFR 63.3961(n)]

**Continuous compliance demonstrations:**

To demonstrate continuous compliance with the allowable emission limit, the organic HAP emission rate for each compliance period, must be equal to or less than the allowable emission limit. A compliance period consists of 12 months. Each month after the end of the initial compliance period is the end of a compliance period consisting of that month and the preceding 11 months. The permittee shall perform the calculations on a monthly basis using data from the previous 12 months of operation. [40 CFR 63.3963(a)]

- 1) If the organic HAP emission rate for any 12-month compliance period exceeded the allowable emission limit, this is a deviation from the emission limitation for that compliance period that must be reported. [40 CFR 63.3963(b)]
- 2) The permittee shall demonstrate continuous compliance with each operating limit when the coating line is in operation. If an operating parameter is out of the allowed range, this is a deviation from the operating limit that must be reported. [40 CFR 63.3963(c)]
- 3) The permittee must meet the requirements for bypass lines in 40 CFR 63.3968(b) for controlled coating operations. If any bypass line is opened and emissions are diverted to the atmosphere when the coating operation is running, this is a deviation that must be reported. For the purposes of completing the compliance calculations specified in 63.3961(h), the permittee must treat the materials used during a deviation on a controlled coating operation as if they were used on an uncontrolled coating operation for the time period of the deviation as indicated in Equation 1 of 40 CFR 63.3961. [40 CFR 63.3963(d)]
- 4) The permittee shall demonstrate continuous compliance with the work practice standards. [40 CFR 63.3963(e)]
- 5) As part of each semiannual compliance report, the permittee shall identify the coating operations for which the permittee used the emission rate with thermal oxidizer control option.



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

- a. Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 Section 2(2) and 50:045 Section 4.
- b. Each performance test required by 40 CFR 63.3960 must be conducted according to the requirements in 40 CFR 63.7(e)(1) and under the conditions in this section. [40 CFR 63.3964(a)]
- c. The permittee shall conduct the performance test under representative operating conditions for the coating operation. [40 CFR 63.3964(a)(1)]
- d. The permittee shall conduct the performance test when the emission capture system and thermal oxidizer are operating at a representative flow rate, and the add-on control device is operating at a representative inlet concentration. [40 CFR 63.3964(a)(2)]
- e. Each performance test of an emission capture system must be conducted according to the requirements in 40 CFR 63.3965. Each performance test of a thermal oxidizer must be conducted according to the requirements in 40 CFR 63.3966. [40 CFR 63.3964(b)]
- f. The permittee shall conduct a performance test every 5 years for each RTO.
- g. See Section G.4 and G.5

**4. Specific Monitoring Requirements:****Equipment Subject to 401 KAR 59:010: EP 28, 31, 33, 34, 39, 41, 42, 58, 60, 62 & 64**

- a. Compliance with the opacity standard shall be determined by the permittee performing a qualitative visual observation during daylight hours of the opacity of emissions at each stack no less than weekly and maintaining a log of the observations. If visible emissions from the stacks are seen (not including condensed water in the plume), then an inspection of control equipment shall be initiated and corrective action taken. If visible emissions are present after the corrective action, the permittee may determine the opacity using Reference Method 9.
- b. The pressure drop of the two stage filter system shall be monitored daily.
- c. The water curtain shall be monitored daily for proper operation.

**Equipment Subject to 401 KAR 59:225: EP 30, 31, 32, 33, 34, 35, 39, 40, 41, 42, 43, 60, 61, 62, 63, 64, 65 and 71**

- d. The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit.
- e. The permittee shall monitor monthly and 12-month consecutive source-wide VOC emissions.

**SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Equipment Subject to Subpart M MMM: EP 30, 31, 32, 33, 34, 35, 39, 40, 41, 42, 43, 60, 61, 62, 63, 64, 65 and 71**

- f. The permittee shall install, operate, and maintain each Continuous Parameter Monitoring System (CPMS) specified in paragraphs (c) and (g) of this section according to paragraphs (a)(1) through (6) of this section. [40 CFR 63.3968(a)]
- 1) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period. [40 CFR 63.3968(a)(1)]
  - 2) The permittee shall determine the average of all recorded readings for each successive 3-hour period of the emission capture system and add-on control device operation. [40 CFR 63.3968(a)(2)]
  - 3) The permittee shall record the results of each inspection, calibration, and validation check of the CPMS. [40 CFR 63.3968(a)(3)]
  - 4) The permittee shall maintain the CPMS at all times and have available necessary parts for routine repairs of the monitoring equipment. [40 CFR 63.3968(a)(4)]
  - 5) The permittee shall operate the CPMS and collect emission capture system and RTO parameter data at all times that a controlled coating operation is operating. [40 CFR 63.3968(a)(5)]
  - 6) The permittee shall not use emission capture system or RTO parameter data recorded during monitoring malfunctions, associated repairs, out-of-control periods, or required quality assurance or control activities when calculating data averages. [40 CFR 63.3968(a)(5)]
- g. The permittee shall comply with the requirements in paragraphs (c)(1) through (3) of this section for gas temperature monitor for RTO. [40 CFR 63.3968(c)]
- h. The capture system monitoring system must comply with the applicable requirements in paragraphs (g)(1) and (2) of this section. [40 CFR 63.3968(g)]

**5. Specific Recordkeeping Requirements:****Equipment Subject to 401 KAR 59:010: EP 28, 31, 33, 34, 39, 41, 42, 58, 60, 62 & 64**

- a. The permittee shall maintain a log of the visual observations noting date, time and initials of observers, records of corrective actions taken as a result of visible emissions from a stack and records of any Reference Method 9 readings performed.
- b. Records documenting the results of any required inspection and repair, as a result of a recorded opacity over 20% shall be maintained.
- c. For the over spray filters, the permittee shall maintain a log of the daily pressure drop readings, including the time, date, identity of the personnel making the record, and dates of filter replacements.
- d. The permittee shall keep manufacturer's specification and/or current good engineering practice procedures of control equipment on site.
- e. For the water curtains, the permittee shall maintain a log of the daily operational checks.

**SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Equipment Subject to 401 KAR 59:225: EP 30, 31, 32, 33, 34, 35, 39, 40, 41, 42, 43, 60, 61, 62, 63, 64, 65 and 71**

- f. Records of the VOC content of coatings as applied shall be maintained.
- g. The permittee shall employ the material balance calculations in emission limitation B.2.c, which includes monitoring the following:
  - 1) Monthly and 12-month consecutive total material usages; and
  - 2) Monthly and 12-month consecutive source-wide VOC emissions.

**Equipment Subject to Subpart M MMM: EP 30, 31, 32, 33, 34, 35, 39, 40, 41, 42, 43, 60, 61, 62, 63, 64, 65 and 71**

- h. The permittee shall keep records in a form suitable and readily available for expeditious inspection and review for at least 5 years (can be stored on-site or off-site) following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.3931(a-c) and 63.10(b)(1)]
- i. In the event that a malfunction occurs, record and maintain on file the date of occurrence and the duration of the event and the corrective actions taken to restore the malfunctioning equipment to its normal operation (both when consistent and not consistent with the SSMP). [40 CFR 63.10(b)(2)(ii), 63.10(b)(2)(iv)(B), and 63.10(b)(2)(v)].
- j. The permittee shall maintain on file all documentation supporting the initial notification report and the NCS report. [40 CFR 63.10(b)(2)(xiv)]
- k. A copy of each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report. [40 CFR 63.3930(a)]
- l. A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner and/or other additive, and cleaning material, and the volume fraction of coating solids for each coating. [40 CFR 63.3930(b)]
- m. For each compliance period, the records calculations specified in the following paragraphs 40 CFR 63.3930(c)(1) through (4). [40 CFR 63.3930(c)]
- n. A record of the name and volume of each coating, thinner and/or other additive, and cleaning material used during each compliance period. [40 CFR 63.3930(d)]
- o. A record of the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each compliance period unless the material is tracked by weight. [40 CFR 63.3930(e)]
- p. A record of the volume fraction of coating solids for each coating used during each compliance period. [40 CFR 63.3930(f)]
- q. A record of the density for each coating, thinner and/or other additive, and cleaning material used during each compliance period. [40 CFR 63.3930(g)]

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

- r. The permittee shall keep records of the allowance for organic HAP shipment to a TSD facility. [40 CFR 63.3930(h)]
- s. The permittee shall keep records of the date, time, and duration of each deviation. [40 CFR 63.3930(j)]

**6. Specific Reporting Requirements:**

The reporting requirement in Section F.5 shall be modified to include only the following:

- a. A detailed calculation spreadsheet that contains the usage of coatings, thinners, other additives, and their VOC content. The spreadsheet should contain any capture and control efficiency used and the total VOC emissions emitted.
- b. A summary of the monitoring in Section B.4.
- c. A summary of the monitoring requirements specified in the Periodic Monitoring Requirements table and the records required by Section B.5.
- d. See Section F.7 and F.8 for further reporting requirements.

**Equipment Subject to 40 CFR 63 Subpart M: EP 30, 31, 32, 33, 34, 35, 39, 40, 41, 42, 43, 60, 61, 62, 63, 64, 65 and 71**

The permittee shall submit the following reports:

- 1) Initial Notification: The permittee has fulfilled (EP 30, 31, 32, 33, 34, 35, 39, 40, 41, 42 and 43) or shall fulfill (EP 60, 61, 62, 63, 64, 65 and 71) this requirement through documentation submitted to U.S. EPA Region IV and the Division. [40 CFR 63.3910(b)]
- 2) Notification of compliance status: The permittee has fulfilled (EP 30, 31, 32, 33, 34, 35, 39, 40, 41, 42 and 43) or shall fulfill (EP 60, 61, 62, 63, 64, 65 and 71) this requirement through documentation submitted to U.S. EPA Region IV and the Division. [40 CFR 63.3910(c)]
- 3) Compliance Report: Each 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. Each subsequent compliance report must be postmarked no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.
  - i. The report shall contain the information contained in 40 CFR 63.3920(a)(1) through (7).
  - ii. Start up, shutdown, malfunction reports. [40 CFR 63.3920(c)]
  - iii. The permittee must submit reports of performance test results for emission capture systems and RTO no later than 60 days after completing the tests as specified in 40 CFR 63.10(d)(2). [40 CFR 63.3920(b)]

**7. Specific Control Equipment Operating Conditions:****Equipment Subject to 401 KAR 59:010: EP 28, 31, 33, 34, 39, 41, 42, 58, 60, 62 & 64**

- a. Filters shall be in place or waterfall shall be operated at all times when a machine is applying coating.
- b. Filters shall be replaced when determined to be inefficient (as determined through pressure drop).

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

- c. The units shall be operated and maintained in accordance with the manufacturer's recommendations and/or current good engineering practice procedures of control equipment.

**Equipment Subject to 401 KAR 59:225 and Subpart M MMM: EP 30, 31, 32, 33, 34, 35, 39, 40, 41, 42, 43, 60, 61, 62, 63, 64, 65 and 71**

- d. The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to 40 CFR 63.3967(a). [Table 1 to Subpart M MMM of Part 63]

**Compliance Demonstration Method:**

The permittee must demonstrate continuous compliance with the operating limit by the following procedure. [Table 1 to Subpart M MMM of Part 63]

- 1) Collecting the temperature data according to 40 CFR 63.3968(c);
- 2) Reducing the data to 3-hour block averages; and
- 3) Maintaining the 3-hour average temperature at or above the temperature limit.

**8. Alternate Operating Scenarios:**

None

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

### Back-up Generators:

Emission Point Number	Description/Process Equipment	Date Installed	Applicable Regulations
46 (GEN-2)	Steel Division Backup Generator, Diesel Fired, 343 HP	1997	40 CFR 63 Subpart <i>ZZZZ</i>
47 (GEN-3)	Aluminum Division Backup Generator, Diesel Fired, 449 HP	1989	
48 (GEN-4)	Aluminum Division Backup Generator, Diesel Fired, 349 HP	1997	
49 (GEN-5)	Aluminum Division Backup Generator, Diesel Fired, 587 HP	2004	

### APPLICABLE REGULATIONS:

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

Note: D.C. Circuit Court [*Delaware v. EPA*, 785 F. 3d 1 (D.C. Cir. 2015)] has vacated the provisions in 40 CFR 63, Subpart *ZZZZ* that contain the 100-hour exemption for operation of emergency engines for purposes of emergency demand response under 40 CFR 63.6640(f)(2)(ii)-(iii). The D.C. Circuit Court issued the mandate for the vacatur on May 4, 2016.

EP 49 is subject only to the initial notification requirements in 40 CFR 63.6645(f). No further requirements apply under this part. [40 CFR 63.6590]

### 1. Operating Limitations:

- a. The permittee shall be in compliance with the emission limitations, operating limitations, and other requirements in 40 CFR 63, Subpart *ZZZZ* that apply at all times. [40 CFR 63.6605(a)]

### Compliance Demonstration Method:

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

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

- b. An existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel operates or that operates for the purpose specified in 40 CFR 63.6640(f)(4)(ii), the permittee shall use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted. [40 CFR 63.6604(b)]

**Compliance Demonstration Method:**

The permittee shall annually certify that the fuel requirements were met, or that the conditions requiring qualifying fuel were not met.

- c. The permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 2c to 40 CFR 63, Subpart ZZZZ apply. [40 CFR 63.6625(h)]
- d. The permittee shall comply with the operating limitations in Table 2c to 40 CFR 63, Subpart ZZZZ which apply: [40 CFR 63.6602]
- i. Change oil and filter every 500 hours of operation or annually, whichever comes first.
  - ii. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
  - iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
  - iv. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of 40 CFR 63, Subpart ZZZZ, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

**Compliance Demonstration Method:**

The permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop the permittee's own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)]

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

- e. The permittee shall operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of 40 CFR 63.6640. In order for the engine to be considered an emergency stationary RICE under 40 CFR 63, Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of 40 CFR 63.6640, is prohibited. If the permittee does not operate the engine according to the requirements in paragraphs (f)(1) through (4) of 40 CFR 63, Subpart ZZZZ, the engine will not be considered an emergency engine under 40 CFR 63, Subpart ZZZZ and must meet all requirements for non-emergency engines. [40 CFR 63.6640(f)]
  - i. There is no time limit on the use of emergency stationary RICE in emergency situations.
  - ii. The permittee may operate the emergency stationary RICE for the purpose specified in paragraph (f)(2)(i) of 40 CFR 63.6640 for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of 40 CFR 63.6640 counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).
    - 1) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.
  - iii. Emergency stationary RICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of 40 CFR 63.6640. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR 63.6640(f)(3)]

**Compliance Demonstration Method:**

See **5. Specific Recordkeeping Requirements**

- f. The permittee shall install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]

**2. Emission Limitations:**

None



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

Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 50:045.

**4. Specific Monitoring Requirements:**

- a. The permittee shall monitor hours of operation as recorded by the non-resettable hour meter.
- b. The permittee has the option to utilize an oil analysis program as described in 40 CFR 63.6625(i) in order to extend the specified oil change requirement in Table 2c of 40 CFR 63, Subpart ZZZZ.

**5. Specific Recordkeeping Requirements:**

- a. The permittee shall keep the records required in Table 6 of 40 CFR 63, Subpart ZZZZ to show continuous compliance with each applicable operating limitation. [40 CFR 63.6655(d)]
- b. If the permittee develops their own maintenance plan for the maintenance and operation of the RICE, the permittee shall keep records of maintenance conducted on the stationary RICE in order to demonstrate that the permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to the maintenance plan. [40 CFR 63.6655(e)]
- c. The permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in 40 CFR 63.6640(f)(4)(ii), the permittee shall keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes. [40 CFR 63.6655(f)]
- d. All records shall be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1). [40 CFR 63.6660(a)]
- e. 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 63.6660(b)]
- f. The permittee shall keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). [40 CFR 63.6660(c)]

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

**6. Specific Reporting Requirements:**

- a. The permittee shall report each instance in which the permittee did not meet each operating limitation in Table 2c to 40 CFR 63, Subpart ZZZZ that applies. These instances are deviations from the operating limitations in 40 CFR 63, Subpart ZZZZ. These deviations shall be reported according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b)]
- b. Each affected source that has obtained a Title V operating permit pursuant to 40 CFR part 70 or 71 shall report all deviations as defined in 40 CFR 63, Subpart ZZZZ in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a compliance report pursuant to Table 7 of 40 CFR 63, Subpart ZZZZ along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all required information concerning deviations from any emission or operating limitation in 40 CFR 63, Subpart ZZZZ, submission of the compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority. [40 CFR 63.6650(f)]
- c. If the engine operates for the purpose specified in 40 CFR 63.6640(f)(4)(ii), the permittee shall submit an annual report according to the requirements in paragraphs (h)(1) through (3) of 40 CFR 63.6650. [40 CFR 63.6650(h)]

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

### Back-up Generators:

Emission Point Number	Description/Process Equipment	Date Installed	Applicable Regulations
45 (GEN-8)	Steel Division Back-up Generator, Diesel Fired, 168 HP	2014	40 CFR 60 Subpart III
50 (GEN-6)	Wastewater Treatment Back-up Generator, Diesel Fired, 160 HP	2008	
53 (GEN-7)	Emergency Back-Up Generator, Diesel fired, 762 HP	2012	40 CFR 60 Subpart III 40 CFR 63 Subpart ZZZZ
66 (GEN-9)	Emergency Back-Up Generator, Diesel fired, 762 HP	2018	
67 (GEN-10)	Emergency Back-Up Generator, Diesel fired, 762 HP	11/2019	
76 (GEN-11)	Emergency Back-Up Generator, Diesel fired, 762 HP	11/2019	
77 (GEN-12)	Emergency Back-Up Generator, Diesel fired, 762 HP	11/2019	

### APPLICABLE REGULATIONS:

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

Note: D.C. Circuit Court [*Delaware v. EPA*, 785 F. 3d 1 (D.C. Cir. 2015)] has vacated the provisions in 40 CFR 60, Subpart III that contain the 100-hour exemption for operation of emergency engines for purposes of emergency demand response under 40 CFR 60.4211(f)(2)(ii)-(iii). The D.C. Circuit Court issued the mandate for the vacatur on May 4, 2016.

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

For EP 45 and EP 50 the requirements of 40 CFR 63 Subpart ZZZZ are met by meeting the requirements of 40 CFR 60 Subpart III. No further requirements apply under this part. This is since these two generators are a new or reconstructed emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions. [40 CFR 63.6590(c)(6)].

EP 53, EP 66, EP 67, EP 76 and EP 77 are subject only to the initial notification requirements in 40 CFR 63.6645(f). No further requirements apply under this part. [40 CFR 63.6590]

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****1. Operating Limitations:****40 CFR 60 Subpart III:**

- a. The permittee shall use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. [40 CFR 60.4207(b)]  
Except as otherwise specifically provided in this subpart, stationary engine diesel fuel is subject to the following per-gallon standards:
  - 1) Sulfur content: 15 ppm maximum for NR diesel fuel.
  - 2) Cetane index or aromatic content, as follows:
    - i. A minimum cetane index of 40; or
    - ii. A maximum aromatic content of 35 volume percent
- b. The permittee shall operate the emergency stationary ICE according to the requirements in 40 CFR 60.4211(f)(1-3). In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 60.4211(f)(1-3), is prohibited. If the permittee does not operate the engine according to the requirements in 40 CFR 60.4211(f)(1-3), the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. [40 CFR 60.4211(f)]
- c. There is no time limit on the use of emergency stationary RICE in emergency situations. [40 CFR 60.4211(f)(1)]
- d. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. [40 CFR 60.4211(f)(2)(i)]
- e. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in 40 CFR 60.4211(f)(2). Except as provided in 40 CFR 60.4211(f)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met: [40 CFR 60.4211(f)(3)]

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Operating Limitations (continued):**

- i. The engine is dispatched by the local balancing authority or local transmission and distribution system operator;
- ii. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
- iii. The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
- iv. The power is provided only to the facility itself or to support the local transmission and distribution system.
- v. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

**2. Emission Limitations:**

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

**Compliance Demonstration Method:**

The permittee shall operate and maintain stationary CI ICE that achieve the emission standards as required in Sec. 60.4205 according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.

**3. Testing Requirements:**

Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart must do so according to paragraphs (a) through (c) of this section. [40 CFR 60.4212(a-c)]

- a. The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F.

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

- b. Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039.
- c. Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:

Where:

STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in Sec. 60.4213 of this subpart, as appropriate.

**4. Specific Monitoring Requirements:**

- a. The permittee shall install a non-resettable hour meter. [40 CFR 60.4209(a)]
- b. The permittee shall comply with the emission standards specified in this subpart, you must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. You must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you. [40 CFR 60.4211(a)]
- c. The permittee shall comply by purchasing an engine certified to the emission standards in Sec. 60.4205(b) for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications. [40 CFR 60.4211(c)]

**5. Specific Recordkeeping Requirements:**

The permittee shall maintain records of the amount of fuel burned and hours of operation for each unit on a monthly basis.

**6. Specific Reporting Requirements:**

See Section F.

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

<b>Emission Point Number</b>	<b>Description/Process Equipment</b>	<b>Date Installed</b>	<b>Control Equipment</b>	<b>Applicable Regulations</b>
73	Aluminum Melting Furnace #1	3/2020	None	401 KAR 59:010 401 KAR 63:020
74	Aluminum Melting Furnace #2	3/2020	None	401 KAR 59:010 401 KAR 63:020
75	Melting Furnace Dust Collector (Baghouse #1)	11/2019	N/A	401 KAR 59:010
78	Aluminum Chip Shredder	11/2019	Electrostatic Precipitator/ Mist Eliminator	401 KAR 59:010 401 KAR 63:020

**APPLICABLE REGULATIONS:**

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

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

**NON-APPLICABLE REGULATION:**

**401 KAR 63:002, Section 2(4)(ccc)**, 40 C.F.R. 63.1500 to 63.1519, Tables 1 to 3 and Appendix A (Subpart RRR), *National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production* is not applicable since CMWA is considered a die casting facility for purposes of this subpart. CMWA melts only clean charge and internal scrap and does not operate any sweat furnaces, thermal chip dryers, scrap dryers, delacquering kilns or decorating kilns.

**1. Operating Limitations:**

Aluminum to be melted in the melting furnaces shall be one of the following as defined in 40 CFR 63.1503:

- a. Clean charge.
- b. Internal scrap.
- c. Customer returns (containing no paint or other solid coatings).

**2. Emission Limitations:**

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

**Compliance Demonstration Method:**

The permittee shall perform a visual observation of the opacity of emissions according to

**4. Specific Monitoring Requirements** (b) and meet the requirements in **5. Specific Recordkeeping Requirements** (b).

- b. For emissions from a control device or stack, 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 below: [401 KAR 59:010, Section 3(2)]:
  - i. For process weight rates up to 1,000 lb/hr:  $E = 2.34$
  - ii. For process weight rates up to 60,000 lb/hr:  $E = 3.59P^{0.62}$

Where E is the rate of emission in lb/hr and P is the process weight rate in tons/hr (monthly throughput in tons/monthly hours of operation).

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Compliance Demonstration Method:**

To demonstrate compliance with the particulate matter emission limitations specified in 401 KAR 59:010, the permittee shall monitor the amounts and types of process weight added to each emissions unit. The process weight rate shall be determined by dividing the tons of material added to each emission unit in a calendar month divided by total hours the unit operated that month. The average particulate emissions shall be calculated as follows:

$$PE = \left( \frac{PW \times EF^*}{H} \right)$$

Where:

*PE* = particulate emissions in lb/hr;

*PW* = process weight in tons/month;

*EF* = particulate emission factor in lb/tons of process weight;

\* The particulate emission factor shall be the number determined from AP-42, MSDS, the most recent Division approved stack test, or Division approved value.

*H* = total hours of operation in a month; and

- 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.
- d. Refer to **Section D** for source-wide emission limitations.

**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 permitting authority.

**4. Specific Monitoring Requirements:**

- a. The permittee shall monitor the following:
  - i. The monthly usage rate of materials used in each emission unit.
  - ii. The monthly total hours of operation for each emission unit.
  - iii. Types of aluminum used in the melting furnaces to ensure compliance with **1. Operating Limitations.**
  - iv. Natural gas usage.
- b. To demonstrate compliance with the opacity standards, the permittee shall perform a qualitative visual observation of the opacity of emissions from each stack during operation of the associated unit on a weekly basis and maintain a log of the observations. If visible emissions from the stack are seen (not including condensed water in the plume), then an inspection shall be initiated and corrective action taken. If visible emissions are present after the corrective action, the permittee may determine the opacity using Reference Method 9.



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

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

**5. Specific Recordkeeping Requirements:**

a. The permittee shall keep records of the following:

- i. The monthly usage rate of materials used in each emission point.
- ii. The monthly hours of operation for each emission point.
- iii. Types of aluminum used in the melting furnaces to ensure compliance with **1. Operating Limitations.**
- iv. Natural gas usage.

b. The permittee shall maintain records of weekly qualitative visible emission observations and results of any Reference Method 9 opacity readings performed including date, time, initials of observer, whether emissions were observed (yes/no) and any corrective actions taken.

c. Refer to **Section F** for general recordkeeping requirements.

d. The permittee shall keep manufacturer's specification of control equipment on site.

**6. Specific Reporting Requirements:**

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

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

None

**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>
<b><i>CMC DIVISION (Steel)</i></b>	
<b>Disc Press</b>	
1. Disc Press #1 & #2	401 KAR 59:010
2. Okuma Units #1 - #10	401 KAR 59:010
3. Central Coolant System (LCS-011)	401 KAR 59:010
<b>Assembly Line</b>	
4. Clip Welder (3 units) (031, 032, 035)	401 KAR 59:010
5. Fanuc Welders (3 units) (033)	401 KAR 59:010
6. #1 Hess 4-Torch (V15D) (8 units) (031)	401 KAR 59:010
7. #2 Hess 4-Torch (V15E) (8 units) (032)	401 KAR 59:010
8. #3 Hess 4-Torch (8 units) (035)	401 KAR 59:010
9. 036 Assembly Cell (2 Miller units)	401 KAR 59:010
10. Backseal/Topseal Machine	None
11. Steel Wheel Paint Repair Booth	401 KAR 59:010
<b>Rim Line</b>	
12. Grotness Beam Welder (3 units) (021, 022, 023)	401 KAR 59:010
13. Roll Form Units (3 units) (021, 022, 023)	401 KAR 59:010
14. Rim Washer (B12 and B2A) (021, 022)	401 KAR 59:010
15. Leak Testers (8 units)	None
<b><i>CLA DIVISION (Aluminum)</i></b>	
<b>Casting Department</b>	
1. Die Holding Oven (DF-001, DF-002)	None
2. Stalk Preheater (SPR-001)	None
3. Low Pressure Die Casting (LP-005 – LP-008)	401 KAR 59:010
4. Vacuum Assisted Pressure Casting (VAPC 001-004, VAPC 009-026)	401 KAR 59:010
5. OKM Deflash (OKM-001 – OKM-006)	401 KAR 59:010
6. Heat Treat (HT-003, HT-004)	401 KAR 59:010
7. Desprue Drill (Hess-001—Hess-008)	401 KAR 59:010
8. Aluminum Chip Handling (ACH-001)	401 KAR 59:010
9. Central Coolant System (LCS-002, LCS-008)	401 KAR 59:010

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

<u>Description</u>	<u>Generally Applicable Regulation</u>
<b>Machining Department</b>	
10. First OP Lathe (FNC-001 – FNC-010)	401 KAR 59:010
11. Second OP Lathe (SNC-001 – SNC-010)	401 KAR 59:010
12. Valve Hole, Bolt Hole Drill (Chiron-001 – Chiron-010)	401 KAR 59:010
13. Parts Washer (LPW-001, 002, 005, 006)	401 KAR 59:010
14. Central Coolant System (LCS-003, 006, 009)	401 KAR 59:010
15. Aluminum Chip Handling (ACH-002, 003, 004)	401 KAR 59:010
<b>Die Cleaning &amp; Coating</b>	
16. Metal Mold Die Cleaning Operation (DC-001 & DC-002)	401 KAR 59:010
17. Metal Mold Glass Shot (GS-001 & GS-002)	401 KAR 59:010
18. Die Coating Booths (PB-001, PB-002, PB-003)	401 KAR 59:010
<b>067 Paint Line</b>	
19. Surface Cut Lathe (SC-001—SC-004)	401 KAR 59:010
20. Parts Washer (LPW-004)	None
21. CLA Paint Pretreatment System L1/11 Stage Parts Washer (PT-001)	None
22. Central Cooling System (LCS-001)	401 KAR 59:010
<b>068 Paint Department</b>	
23. Surface Cut Lathe (SC-005, 006, 007)	401 KAR 59:010
24. CLA Paint Pretreatment System L2/12 Stage Parts Washer (PT-002)	None
25. CLA Paint Pretreatment System L3/11 Stage Parts Washer (PT-003)	None
26. Parts Washer (LPW-003)	401 KAR 59:010
27. Eclipse Immersion Tube Gas Burners 4 @ 2.5 MMBtu/hr total	None
28. Central Coolant System (LCS-007)	401 KAR 59:010
<b>Product Assurance Department</b>	
29. Spectrographic Analysis (TS-001)	None
30. X-Ray Inspections (XR-001, XR-002)	None

**SECTION C - INSIGNIFICANT ACTIVITIES (CONTINUED)****Description****Generally Applicable Regulation*****PROACE DIVISION (Aluminum)*****Melt Department**

- |   |                |
|---|----------------|
| 1. Dross Press #1                             | 401 KAR 59:010 |
| 2. Ladle Preheaters (LP-001—LP-004)           | None           |
| 3. Gas Bubbling Filtration (GBF-001, GBF-002) | None           |
| 4. Diesel Tank (1,000 gallons)                | None           |

**Casting Department**

- |   |                |
|---|----------------|
| 5. Vacuum Assisted Pressure Casting<br>(VAPC 001-012) | 401 KAR 59:010 |
| 6. Riser Cut Machines (RCM-001—RCM-006)               | 401 KAR 59:010 |
| 7. Riser Cut Chip Conveyor (RCCC-001)                 | 401 KAR 59:010 |
| 8. Heat Treat (HT-001, 002, 003)                      | 401 KAR 59:010 |
| 9. Briquette – Chip Compacting (BC-001—BC-010)        | 401 KAR 59:010 |

**Machining Department**

- |  |                |
|--|----------------|
| 10. First OP Lathe (FNC-011—FNC-016)                     | 401 KAR 59:010 |
| 11. Second OP Lathe (SNC-011—SNC-016)                    | 401 KAR 59:010 |
| 12. Machining Center (MC-011—MC-016)                     | 401 KAR 59:010 |
| 13. Surface Cut Lathe (SC-008—SC-010)                    | 401 KAR 59:010 |
| 14. Central Coolant System (LCS-010, LCS-013<br>LCS-014) | 401 KAR 59:010 |
| 15. Parts Washer (LPW-007 & LPW-008)                     | 401 KAR 59:010 |
| 16. Henry Filter (LCS-015)                               | None           |

**Paint Department**

- |  |      |
|--|------|
| 17. PROACE Paint Pretreatment System L4/<br>11 Stage Parts Washer (PT-004) | None |
| 18. PROACE Paint Pretreatment System L5/<br>11 Stage Parts Washer (PT-005) | None |
| 19. 8 Gas burners (2.5 MMBtu/hr total)                                     | 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. Particulate Matter (PM) and Volatile Organic Compound (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. **Synthetic Minor Limit for Volatile Organic Compound (VOC) Emissions:**  
VOC emissions shall not exceed 249 tons during any consecutive twelve (12) month period. Monthly records to demonstrate compliance with this limitation shall be maintained and total VOC emissions shall be reported on a semi-annual basis. VOC emissions shall be calculated and recorded on a *monthly* basis. These records shall be summarized in tons per month of VOC emissions; subsequently, tons of VOC emissions per rolling 12-month period shall be recorded. In addition, these records shall demonstrate compliance with the VOC emission limitation listed herein for the synthetic minor limitation. These records shall be maintained on site for a period of five years from the date the data was collected and shall be provided to the Division upon request.

If total VOC emissions during any twelve-month period exceed 225 tons, the permittee will begin tracking annual emissions on a weekly basis beginning the following calendar month. Emissions will be tracked in this manner for three consecutive months, and monthly reports shall be submitted to the Frankfort Regional Office. If the rolling twelve-month totals remain less than 225 tons for three consecutive months, the permittee may return to monthly tracking and semi-annual reporting until such time as emissions may again exceed 225 tons for a rolling twelve-month total.

Note: weekly tracking will be accomplished by recalculating each of the applicable month's emissions from the prior year from a monthly total to weekly totals, and compared with the weekly totals from the same week of the current year. For the purposes of this tracking, each month shall be broken down into 4 weeks as follows:

- Week 1. Day 1 thru day 7
- Week 2. Day 8 thru day 14
- Week 3. Day 15 thru day 21
- Week 4. Day 22 thru day 31

### Compliance Demonstration Method:

#### For VOC:

VOC emitted (lbs/month) =  $\sum$  [VOC emissions from paints, thinners and cleaning solvents]

$$E_{VOC} = \sum Q \times C_{VOC}$$

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

Where:

$E_{VOC}$  = Total VOC emissions (lb/month)

$Q$  = Usage rate of material (gal/month)

$C_{VOC}$  = VOC content of material (lb/gal)

VOC content of material as applied ( $C_{VOC}$ ) is obtained from the manufacturer's technical specification sheet and coating to thinner mix ratio data.

VOC emitted from natural gas combustion (boilers and cure ovens):

VOC emitted (lbs/month) = (5.5 lb/MMSCF) x (MMSCF natural gas burned/month)

Source-wide VOC emissions =  $\sum$  [VOC emissions from paints, thinners and cleaning solvents] +  $\sum$  [VOC emissions from natural gas combustion]

## **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  
Frankfort Regional Office  
300 Sower Blvd  
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) 2].
- 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) 4.].
- 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) 1.].

## **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, emission unit 79 in accordance with the terms and conditions of this permit (V-16-025 R2).

- 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, with a copy to the Field Office Branch of the Frankfort Central Office, 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. For those affected facilities for which construction is authorized by this permit, a source shall be allowed to construct with the proposed permit. Operational or final permit approval is not granted by this permit until compliance with the applicable standards specified herein has been demonstrated pursuant to 401 KAR 50:055. If compliance is not demonstrated within the prescribed timeframe provided in 401 KAR 50:055, the source shall operate thereafter only for the purpose of demonstrating compliance, unless otherwise authorized by Section I of this permit or 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)**5. Testing Requirements

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

6. Acid Rain Program Requirements

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

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;

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

- (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 82.166
    - (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.
  - 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**

None