

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

Draft

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

Permittee Name: McKechnie Vehicle Components
Mailing Address: 801 John C. Watts Drive, Nicholasville, KY
40356

Source Name: McKechnie Vehicle Components
Mailing Address: 801 John C. Watts Drive
Nicholasville, KY 40356

Source Location: 801 John C. Watts Drive

Permit: V-20-021
Agency Interest: 2297
Activity: APE20200002
Review Type: Title V, Operating
Source ID: 21-113-00017

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

**Application
Complete Date:** August 6, 2020
Issuance Date:
Expiration Date:

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

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	Permit type	Activity#	Complete Date	Issuance Date	Summary of Action
V-20-021	Renewal	APE20200002	8/6/2020		Renewal Permit

SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Energy and Environment Cabinet (Cabinet) hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit 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

EP 10 Primecoat Booth 1 and 2
(PB1) Binks reciprocating HVLP, spray gun
(PB2) Fanuc Robot, HVLP spray gun

Binks maximum application rate 10 gallons/hour
Fanuc maximum application rate 4.76 gallons/hour
Total application rate 14.76 gallons/hour
Construction commenced: 1992, robot 2017

EP 11 Basecoat Booths 1-4
(BC1) Binks reciprocating HVLP
(BC2) Fanuc Robot, HVLP spray gun
(BC3) Binks reciprocating HVLP
(BC4) Fanuc Robot, HVLP spray gun

Binks maximum application rate 10 gallons/hour
Fanuc maximum application rate 4.76 gallons/hour
Total application rate 29.5 gallons/hour total
Construction commenced: 1992, robots 2017

EP 12 Clearcoat Booths 1-4
(CC1) Binks reciprocating HVLP
(CC2) Fanuc Robot, HVLP spray gun
(CC3) Binks reciprocating HVLP
(CC4) Fanuc Robot, HVLP spray gun

Binks maximum application rate 10 gallons/hour
Fanuc maximum application rate 4.76 gallons/hour
Total application rate 29.5 gallons/hour total
Construction commenced: 1992, robots 2017

Control Equipment for EP10-12: Venturi Scrubber and Dry filters

EP 14 Curing Ovens (2)
Fuel: Natural Gas,
Usage Rate: 1.5 MMBtu/hr

Dry Filtration System for PM (baghouse):
Smith Engineering 3 Stage, Tridem Fabric Filter
Control Efficiency: 99.6%
Stage 1: 2 pocket cube
Stage 2: 8 pocket TriSac
Stage 3: 8 pocket Syn-pac
Installed July 1992

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

APPLICABLE REGULATIONS:

401 KAR 63:002 Section 2(4)(uuu) 40 C.F.R. 63.4480 to 63.4581, Tables 1 to 4, and Appendix A (Subpart PPPP), National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products

401 KAR 59:010, New process operations

PRECLUDED REGULATION:

401 KAR 50:012, *General application*, effective June 24, 1992, requiring implementation of standards for national primary and secondary ambient air quality, specifies that control procedures that are reasonable, available, and practical be used is precluded since the source has accepted a limit on VOCs (90 tons per year) that is below a major source threshold.

1. Operating Limitations:

- a. Particulate control devices shall be in place and operated at all times during operation.
- b. The rate of materials used in affected facilities shall not produce emissions which exceed the limitations as described in Section 2: Emission Limitations, below.
- c. See Subpart PPPP requirements.

2. Emission Limitations:

401 KAR 59:010, Section 3(2)

- a. Particulate matter emissions shall not exceed 2.34 pounds/hour for each paint booth.

Compliance Demonstration Method for PM:

1. The source is assumed to be in compliance when control equipment is in place and operating.
2. See Section 4: Specific Monitoring Requirements and Section 5: Specific Record Keeping Requirements, below.

401 KAR 59:010, Section 3(1)(a)

- b. Visible emissions shall not equal or exceed 20% opacity for each affected facility.

Compliance Demonstration Method for Opacity:

See **4. Specific Monitoring Requirements**

- c. See Section D for source wide VOC emission limit.
- d. See Subpart PPPP requirements.

3. Testing Requirements:

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

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

- b. If the Division requires it, the permittee shall perform a Reference Method 5 test, or other methods approved by the Division, to determine the emission rate of particulate matter. [401 KAR 59:010, 4(1) Test Methods and Procedures]
- c. If the Division requires it, the permittee shall perform a Reference Method 9 test to determine the opacity of continuous emissions. [401 KAR 59:010, 4(5) Test Methods and Procedures]
- d. See also Section G.

4. Specific Monitoring Requirements:

- a. Particulate Controls
 - 1. The permittee shall visually inspect for water flow through the venturi scrubber control system once daily when the affected equipment is in operation.
 - 2. Resistance to airflow across the dry filtration system shall be monitored by use of a magnahelic gauge, manometer or other means, as an indicator of the need for filter maintenance. The permittee shall establish a range of pressure readings based on the manufacturer's recommendations. Readings from the chosen instrument shall be taken once per day during operation. The permittee shall also visually observe the filter condition daily and replace it as needed.
- b. The permittee shall monitor the plant's monthly natural gas usage rate in million cubic feet.
- c. The permittee shall perform a qualitative visual observation of the opacity of emissions at each stack no less than weekly while the affected facility is operating. If visible emissions from the stacks are observed (not including condensed water in the plume), the permittee shall determine the opacity using Reference Method 9. In lieu of determining the opacity using U.S. EPA Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume).

5. Specific Record Keeping Requirements:

- a. The permittee shall maintain records of the following information for the spray booth particulate controls:
 - 1. The design and/or manufacturer's specifications.
 - 2. The operational procedures and preventive maintenance records.
 - 3. Maintain a log of visual observations of water flow through the venturi scrubber control system.
 - 4. Maintain a log of pressure drop readings across the dry filtration system and dates of filter replacements.

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

- b. For pressure drop readings and water flow inspections of the venture scrubber system, note the time, date, and identity of the personnel making the record. If any booths were not in operation during a given time period this fact should be noted.
- c. The permittee shall keep calendar month records of usage of all paints (prime, base, and clear), thinners and cleanup solvents. At the end of each month, VOC emissions shall be calculated and recorded per Section D. These records, as well as purchase records for all VOC containing materials, shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality.
- d. See Subpart PPPP requirements.
- e. The permittee shall maintain records of the plant's monthly natural gas usage rate in million cubic feet.
- f. 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.

6. Specific Reporting Requirements:

- a. See Subpart PPPP requirements.
- b. The permittee shall submit a copy of the control device inspection and repair log for those times when corrective actions are required due to an opacity exceedance and/or records of any Reference Method 9 opacity observations as noted in Section B (4) c. Copies of these records shall be submitted as a part of the semiannual reporting as required in Section F (5) & (6).
- c. See Section D.5.

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

EP 13 Mask Paint Booths (Decko)
(MP1 - MP7) Manual HVLP Gun
Maximum application rate 5.0 gallons/hour total
Construction commenced: 1989
Control Equipment: Dry filters

APPLICABLE REGULATIONS:

401 KAR 63:002 Section 2(4)(uuu) 40 C.F.R. 63.4480 to 63.4581, Tables 1 to 4, and Appendix A (Subpart PPPP), National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products

401 KAR 59:010, New process operations

1. Operating Limitations:

- a. Particulate filters shall be in place and operated at all times during operation.
- b. See Subpart PPPP requirements.

2. Emission Limitations:

401 KAR 59:010, Section 3(1)(a)

- a. Visible emissions shall not equal or exceed 20% opacity for each affected facility.

Compliance Demonstration Method for opacity:

See **4. Specific Monitoring Requirements**

- b. 401 KAR 59:010, Section 3(2)

Particulate matter emissions shall not exceed 2.34 pounds/hour for each paint booth.

Compliance Demonstration Method for PM:

1. The source is assumed to be in compliance when control equipment is in place and operating.

2. See Section 4: Specific Monitoring Requirements and Section 5: Specific Record Keeping Requirements, below.

- c. See Section D for source wide emission limit.

- d. See Subpart PPPP requirements.

3. Testing Requirements:

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

4. Specific Monitoring Requirements:

- a. Resistance to airflow across the booth filters shall be monitored by use of a manometric gauge, manometer or other means, as an indicator of the need for filter maintenance. Readings from the chosen instrument shall be taken at a minimum of once daily when operating.

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

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

5. Specific Record Keeping Requirements:

- a. The permittee shall maintain a log of the pressure drop readings across the dry filters, including the time, date, identity of the personnel making the record, and dates of filter replacements. For any booth that is not in operation on a given date, this fact should also be noted.
- b. The permittee shall keep calendar month records of usage of all paints (prime, base, and clear), thinners and cleanup solvents. At the end of each month, VOC emissions shall be calculated and recorded per Section D. These records, as well as purchase orders and invoices for all VOC containing materials, shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality.
- c. 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.
- d. See Subpart PPPP requirements.

6. Specific Reporting Requirements:

- a. See Subpart PPPP requirements.
- b. The permittee shall submit a copy of the control device inspection and repair log for those times when corrective actions are required due to an opacity exceedance and/or records of any Reference Method 9 opacity observations as noted in Section B (4) b. Copies of these records shall be submitted as a part of the semiannual reporting as required in Section F (5) & (6).
- c. See Section D.5.

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

EP 28 Chain-on-Edge (COE)
(COE-P) Prime Coat Booth
Maximum application rate 0.81 gallon/hour
Construction commenced: March 1998
Control Equipment: Dry filters

EP 29 Chain-on-Edge (COE)
(COE-B) Base Coat Booth
Maximum application rate 0.81 gallon/hour
Construction commenced: March 1998
Control Equipment: Dry filters

EP 30 Chain-on-Edge (COE)
(COE-C) Clear Coat Booth
Maximum application rate 0.81 gallon/hour
Construction commenced: March 1998
Control Equipment: Dry filters

EP 22 COE Curing Oven
Fuel: Natural Gas
Usage Rate: 1.0 MMBtu/hr

EP 18 COE Pre-treat Oven
Fuel: Natural Gas
Usage Rate: 1.0 MMBtu/hr

APPLICABLE REGULATIONS:

401 KAR 63:002 Section 2(4)(uuu) 40 C.F.R. 63.4480 to 63.4581, Tables 1 to 4, and Appendix A (Subpart PPPP), National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products

401 KAR 59:010, New process operations

1. Operating Limitations:

- a. Particulate filters shall be in place and operated at all times during operation.
- b. See Subpart PPPP requirements.

2. Emission Limitations:

401 KAR 59:010, Section 3(1)(a)

- a. Visible emissions shall not equal or exceed 20% opacity for each affected facility.

Compliance Demonstration Method for opacity:

See **4. Specific Monitoring Requirements**

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

- b. 401 KAR 59:010, Section 3(2)

Particulate matter emissions shall not exceed 2.34 pounds/hour for each paint booth.

Compliance Demonstration Method for PM:

1. The source is assumed to be in compliance when filters are in place and functional.
 2. See Section 5: Specific Record Keeping Requirements and Section 7: Specific Control Equipment Operating Conditions, below.
- c. See Section D for source wide emission limit.
- d. See Subpart PPPP requirements.

3. Testing Requirements:

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

4. Specific Monitoring Requirements:

- a. The permittee shall perform a qualitative visual observation of the opacity of emissions at each stack no less than weekly while the affected facility is operating. If visible emissions from the stacks are observed (not including condensed water in the plume), the permittee shall determine the opacity using Reference Method 9. In lieu of determining the opacity using U.S. EPA Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume).
- b. The permittee shall monitor and maintain records of the plant's monthly natural gas usage rate in million cubic feet.
- c. The permittee shall monitor pressure drop across the filters once a day during the operation of the unit. Pressure drop must be within manufacturer's specification.

5. Specific Record Keeping Requirements:

- a. 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. For any booth that is not in operation on a given date, this fact should also be noted.
- b. The permittee shall maintain records of the plant's monthly natural gas usage rate in million cubic feet.
- c. The permittee shall keep calendar month records of usage of all paints (prime, base, and clear), thinners and cleanup solvents. At the end of each month, VOC and HAP emissions shall be calculated and recorded per Section D. These records, as well as purchase orders and invoices for all VOC/HAP containing materials, shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality.

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

- d. 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.
- e. The permittee shall keep manufacturer's specification of control equipment on site.
- f. See Subpart PPPP requirements.

6. Specific Reporting Requirements:

- a. See Subpart PPPP requirements.
- b. The permittee shall submit a copy of the control device inspection and repair log for those times when corrective actions are required due to an opacity exceedance and/or records of any Reference Method 9 opacity observations as noted in Section B (4) a. Copies of these records shall be submitted as a part of the semiannual reporting as required in Section F (5) & (6).
- c. See Section D.5.

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

401 KAR 63:002 Section 2(4)(uuu) *40 C.F.R. 63.4480 to 63.4581, Tables 1 to 4, and Appendix A (Subpart PPPP), National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products*, applies to the following emission points and the related surface coating equipment and operations described below:

EP 10 (PB1-2)	Primecoat Booths 1 and 2
EP 11 (BC1-4)	Basecoat Booths 1-4
EP 12 (CC1-4)	Clearcoat Booths 1-4
EP 13 (MP1-MP7)	Mask Paint Booth (Decko)
EP 28 (COE-P)	Chain-on-Edge (COE) Primecoat
EP 29 (COE-B)	Chain-on-Edge (COE) Basecoat
EP 30 (COE-C)	Chain-on-Edge (COE) Clearcoat

40 CFR 63.4482 (b) The affected source is the collection of all of the items listed in paragraphs (b)(1) through (4) of 40 CFR 63.4482 [(1) through (4) below] that are used for surface coating of plastic parts and products within each subcategory.

- (1) All coating operations as defined in 40 CFR 63.4581;
- (2) All storage containers and mixing vessels in which coatings, thinners and/or other additives, and cleaning materials are stored or mixed;
- (3) All manual and automated equipment and containers used for conveying coatings, thinners and/or other additives, and cleaning materials; and
- (4) All storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation.

1. Operating Limitations:

- a. 40 CFR 63.4492 (a) For any coating operation(s) on which the permittee uses the compliant material option or the emission rate without add-on controls option, the permittee is not required to meet any operating limits.
- b. 40 CFR 63.4493 (a) For any coating operation(s) on which the permittee uses the compliant material option or the emission rate without add-on controls option, the permittee is not required to meet any work practice standards.
- c. 40 CFR 63.4500 (a)(1) Any coating operation(s) for which the permittee uses the compliant material option or the emission rate without add-on controls option, as specified in 40 CFR 63.4491(a) and (b), shall be in compliance with the applicable emission limit in 40 CFR 63.4490 at all times.
- d. 40 CFR 63.4500 (b) The permittee shall always operate and maintain the affected source, according to the provisions in 40 CFR 63.6 (e)(1)(i).

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**2. Emission Limitations:**

40 CFR 63.4490 (b)(1) For each existing general use coating affected source, limit organic HAP emissions to no more than 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used during each 12-month compliance period, as determined according to the requirements in 40 CFR 63.4541, 40 CFR 63.4551, or 40 CFR 63.4561.

General Compliance Demonstration Methods:

a. 40 CFR 63.4491 The permittee shall include all coatings (as defined in 40 CFR 63.4581), thinners and/or other additives, and cleaning materials used in the affected source when determining whether the organic HAP emission rate is equal to or less than the applicable emission limit in 40 CFR 63.4490. To make this determination, the permittee shall use at least one of the three compliance options listed in paragraphs (a) through (c) of 40 CFR 63.4491. The permittee may apply any of the compliance options to an individual coating operation, or to multiple coating operations as a group, or to the entire affected source. The permittee may use different compliance options for different coating operations, or at different times on the same coating operation. The permittee may employ different compliance options when different coatings are applied to the same part, or when the same coating is applied to different parts. However, the permittee may not use different compliance options at the same time on the same coating operation. If the permittee switches between compliance options for any coating operation or group of coating operations, the permittee shall document this switch as required by 40 CFR 63.4530(c), and the permittee shall report it in the next semiannual compliance report required in 40 CFR 63.4520.

b. For all compliance methods determine the material properties as described below.

40 CFR 63.4561 (e) Determine the mass fraction of organic HAP, density, volume used, and mass fraction of coating solids. Follow the procedures specified in 40 CFR 63.4551(a)—(d) to determine the mass fraction of organic HAP, density, and volume of each coating, thinner and/or other additive, and cleaning material used during each month; and the mass fraction of coating solids for each coating used during each month.

1. 40 CFR 63.4551 (a) Determine the mass fraction of organic HAP for each material. Determine the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each month according to the requirements in 40 CFR 63.4541(a).

(a) 40 CFR 63.4541 (a) Determine the mass fraction of organic HAP for each material used. The permittee shall determine the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during the compliance period by using one of the options in paragraphs (a)(1) through (5) of this section.

(1) The permittee may use Method 311 for determining the mass fraction of organic HAP. Use the procedures specified in paragraphs (a)(1)(i) and (ii) of this section when performing a Method 311 test.

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

- (i) 40 CFR 63.4541 (a)(1)(i) Count each organic HAP that is measured to be present at 0.1 percent by mass or more for Occupational Safety and Health Administration (OSHA)-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is measured to be 0.5 percent of the material by mass, the permittee does not have to count it. Express the mass fraction of each organic HAP counted as a value truncated to four places after the decimal point (e.g., 0.3791).
 - (ii) 40 CFR 63.4541 (a)(1)(ii) Calculate the total mass fraction of organic HAP in the test material by adding up the individual organic HAP mass fractions and truncating the result to three places after the decimal point (e.g., 0.763).
- (2) 40 CFR 63.4541 (a)(2) Method 24 (appendix A to 40 CFR part 60). For coatings, the permittee may use Method 24 to determine the mass fraction of non-aqueous volatile matter and use that value as a substitute for mass fraction of organic HAP. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, the permittee may use the alternative method contained in appendix A to this subpart, rather than Method 24. The permittee may use the volatile fraction that is emitted, as measured by the alternative method in appendix A to this subpart, as a substitute for the mass fraction of organic HAP.
- (3) 40 CFR 63.4541 (a)(3) Alternative method. The permittee may use an alternative test method for determining the mass fraction of organic HAP once the US EPA has approved it. The permittee shall follow the procedure in 40 CFR 63.7(f) to submit an alternative test method for approval.
- (4) 40 CFR 63.4541 (a)(4) Information from the supplier or manufacturer of the material. The permittee may rely on information other than that generated by the test methods specified in paragraphs (a)(1) through (3) of this section, such as manufacturer's formulation data, if it represents each organic HAP that is present at 0.1 percent by mass or more for OSHA-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is 0.5 percent of the material by mass, the permittee does not have to count it. For reactive adhesives in which some of the HAP react to form solids and are not emitted to the atmosphere, the permittee may rely on manufacturer's data that expressly states the organic HAP or volatile matter mass fraction emitted. If there is a disagreement between such information and results of a test conducted according to paragraphs (a)(1) through (3) of this section, then the test method results will take precedence unless, after consultation the permittee demonstrates to the satisfaction of the enforcement agency that the formulation data are correct.

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

- (5) 40 CFR 63.4541 (a)(5) Solvent blends. Solvent blends may be listed as single components for some materials in data provided by manufacturers or suppliers. Solvent blends may contain organic HAP which shall be counted toward the total organic HAP mass fraction of the materials. When test data and manufacturer's data for solvent blends are not available, the permittee may use the default values for the mass fraction of organic HAP in these solvent blends listed in Table 3 or 4 to this subpart. If the permittee uses the tables, the permittee shall use the values in Table 3 for all solvent blends that match Table 3 entries according to the instructions for Table 3, and the permittee may use Table 4 only if the solvent blends in the materials the permittee uses do not match any of the solvent blends in Table 3 and the permittee knows only whether the blend is aliphatic or aromatic. However, if the results of a Method 311 (appendix A to 40 CFR Part 63) test indicate higher values than those listed on Table 3 or 4 to this subpart, the Method 311 results will take precedence unless, after consultation the permittee demonstrates to the satisfaction of the enforcement agency that the formulation data are correct.
2. 40 CFR 63.4551 (b) Determine the mass fraction of coating solids. Determine the mass fraction of coating solids (kg (lb) of coating solids per kg (lb) of coating) for each coating used during each month.
- (a) 40 CFR 63.4541 (b) Determine the mass fraction of coating solids for each coating. The permittee shall determine the mass fraction of coating solids (kg (lb) of coating solids per kg (lb) of coating) for each coating used during the compliance period by a test, by information provided by the supplier or the manufacturer of the material, or by calculation, as specified in paragraphs (b)(1) through (3) of this section.
- (b) 40 CFR 63.4541 (b)(1) Method 24 (appendix A to 40 CFR part 60). Use Method 24 for determining the mass fraction of coating solids. For reactive adhesives in which some of the liquid fraction reacts to form solids, the permittee may use the alternative method contained in appendix A to this subpart, rather than Method 24, to determine the mass fraction of coating solids.
- (c) 40 CFR 63.4541 (b)(2) Alternative method. The permittee may use an alternative test method for determining the solids content of each coating once the US EPA has approved it. The permittee shall follow the procedure in 40 CFR 63.7(f) to submit an alternative test method for approval.
- (d) 40 CFR 63.4541 (b)(3) Information from the supplier or manufacturer of the material. The permittee may obtain the mass fraction of coating solids for each coating from the supplier or manufacturer. If there is disagreement between such information and the test method results, then the test method results will take precedence unless, after consultation the permittee demonstrates to the satisfaction of the enforcement agency that the formulation data are correct.

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

3. 40 CFR 63.4551 (c) Determine the density of each material. Determine the density of each liquid coating, thinner and/or other additive, and cleaning material used during each month from test results using ASTM Method D1475–98, “Standard Test Method for Density of Liquid Coatings, Inks, and Related Products” (incorporated by reference, see 40 CFR 63.14), information from the supplier or manufacturer of the material, or reference sources providing density or specific gravity data for pure materials. If there is disagreement between ASTM Method D1475–98 and other such information sources, the test results will take precedence unless, after consultation the permittee demonstrates to the satisfaction of the enforcement agency that the formulation data are correct. If the permittee purchases materials or monitor consumption by weight instead of volume, the permittee does not need to determine material density. Instead, the permittee may use the material weight in place of the combined terms for density and volume in Equations 1A, 1B, 1C, and 2 of this section.
4. 40 CFR 63.4551 (d) Determine the volume of each material used. Determine the volume (liters) of each coating, thinner and/or other additive, and cleaning material used during each month by measurement or usage records. If the permittee purchases materials or monitor consumption by weight instead of volume, the permittee does not need to determine the volume of each material used. Instead, the permittee may use the material weight in place of the combined terms for density and volume in Equations 1A, 1B, 1C, and 2 of this section.

Compliance Requirements for the Compliant Material Option

- a. 40 CFR 63.4491 (a) Compliant material option. Demonstrate that the organic HAP content of each coating used in the coating operation(s) is less than or equal to the applicable emission limit in 40 CFR 63.4490, and that each thinner and/or other additive, and cleaning material used contains no organic HAP. The permittee shall meet all the requirements of 40 CFR 63.4540, 63.4541, and 63.4542 to demonstrate compliance with the applicable emission limit using this option.
- b. 40 CFR 63.4541 (c) Calculate the organic HAP content of each coating. Calculate the organic HAP content, kg (lb) organic HAP emitted per kg (lb) coating solids used, of each coating used during the compliance period using Equation 1 of 40 CFR 63.4541 (Eq. 41.1 below):

$$H_c = \frac{W_c}{S_c} \quad (\text{Eq. 41.1})$$

Where:

H_c = Organic HAP content of the coating, kg (lb) of organic HAP emitted per kg (lb) coating solids used.

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

W_c = Mass fraction of organic HAP in the coating, kg organic HAP per kg coating, determined according to paragraph (a) of this section.

S_c = Mass fraction of coating solids, kg coating solids per kg coating, determined according to paragraph (b) of this section.

- c. 40 CFR 63.4542 (a) For each compliance period to demonstrate continuous compliance, the permittee shall use no coating for which the organic HAP content (determined using Equation 1 of 40 CFR 63.4541) exceeds the applicable emission limit in 40 CFR 63.4490, and use no thinner and/or other additive, or cleaning material that contains organic HAP, determined according to 40 CFR 63.4541(a). A compliance period consists of 12 months. Each month, after the end of the initial compliance period described in 40 CFR 63.4540, is the end of a compliance period consisting of that month and the preceding 11 months. If the permittee is complying with a facility-specific emission limit under 40 CFR 63.4490(c), the permittee shall also perform the calculation using Equation 1 in 40 CFR 63.4490(c)(2) on a monthly basis using the data from the previous 12 months of operation.
- d. 40 CFR 63.4542 (b) If the permittee chooses to comply with the emission limitations by using the compliant material option, the use of any coating, thinner and/or other additive, or cleaning material that does not meet the criteria specified in paragraph (a) of 40 CFR 63.4542 is a deviation from the emission limitations that shall be reported as specified in 40 CFR 63.4510(c)(6) and 63.4520(a)(5).
- e. 40 CFR 63.4542 (c) As part of each semiannual compliance report required by 40 CFR 63.4520, the permittee shall identify the coating operation(s) for which the permittee used the compliant material option. If there were no deviations from the applicable emission limit in 40 CFR 63.4490, submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because the permittee used no coatings for which the organic HAP content exceeded the applicable emission limit in 40 CFR 63.4490, and the permittee used no thinner and/or other additive, or cleaning material that contained organic HAP, determined according to 40 CFR 63.4541(a).
- f. 40 CFR 63.4542 (d) The permittee shall maintain records as specified in 40 CFR 63.4530 and 63.4531.

Compliance Requirements for the Emission Rate Without Add-On Controls Option

- a. 40 CFR 63.4491 (b) Emission rate without add-on controls option. Demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in the coating operation(s), the organic HAP emission rate for the coating operation(s) is less than or equal to the applicable emission limit in 40 CFR 63.4490, calculated as a rolling 12-month emission rate and determined on a monthly basis. The permittee shall meet all the requirements of 40 CFR 63.4550, 63.4551, and 63.4552 to demonstrate compliance with the emission limit using this option.

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

- b. 40 CFR 63.4551 (e) Calculate the mass of organic HAP emissions. The mass of organic HAP emissions is the combined mass of organic HAP contained in all coatings, thinners and/or other additives, and cleaning materials used during each month minus the organic HAP in certain waste materials. Calculate the mass of organic HAP emissions using Equation 1 of 40 CFR 63.4551 (Eq. 51.1 below).

$$H_e = A + B + C - R_w \quad (\text{Eq. 51.1})$$

Where:

H_e = Total mass of organic HAP emissions during the month, kg.

A = Total mass of organic HAP in the coatings used during the month, kg, as calculated in Equation 1A of this section.

B = Total mass of organic HAP in the thinners and/or other additives used during the month, kg, as calculated in Equation 1B of this section.

C = Total mass of organic HAP in the cleaning materials used during the month, kg, as calculated in Equation 1C of this section.

R_w = Total mass of organic HAP in waste materials sent or designated for shipment to a hazardous waste TSDF for treatment or disposal during the month, kg, determined according to paragraph (e)(4) of this section. (The permittee may assign a value of zero to R_w if the permittee does not wish to use this allowance.)

1. 40 CFR 63.4551 (e)(1) Calculate the kg organic HAP in the coatings used during the month using Equation 1A of 40 CFR 63.4551 (Eq. 51.1A below):

$$A = \sum_{i=1}^m (\text{Vol}_{c,i}) (D_{c,i}) (W_{c,i}) \quad (\text{Eq. 51.1A})$$

Where:

A = Total mass of organic HAP in the coatings used during the month, kg.

$\text{Vol}_{c,i}$ = Total volume of coating, i, used during the month, liters.

$D_{c,i}$ = Density of coating, i, kg per liter.

$W_{c,i}$ = Mass fraction of organic HAP in coating, i, kg per kg. For reactive adhesives as defined in 40 CFR 63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to this subpart.

m = Number of different coatings used.

2. 40 CFR 63.4551 (e)(2) Calculate the kg of organic HAP in the thinners and/or other additives used during the month using Equation 1B of 40 CFR 63.4551 (Eq. 51.1B below):

$$B = \sum_{j=1}^n (\text{Vol}_{t,j}) (D_{t,j}) (W_{t,j}) \quad (\text{Eq. 51.1B})$$

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

Where:

B = Total mass of organic HAP in the thinners and/or other additives used during the month, kg.

Vol_{t,j} = Total volume of thinner and/or other additive, j, used during the month, liters.

D_{t,j} = Density of thinner and/or other additive, j, kg per liter.

W_{t,j} = Mass fraction of organic HAP in thinner and/or other additive, j, kg per kg. For reactive adhesives as defined in 40 CFR 63.4581, use the mass fraction of organic HAP that is emitted as determined using the method in appendix A to this subpart.

n = Number of different thinners and/or other additives used.

3. 40 CFR 63.4551 (e)(3) Calculate the kg organic HAP in the cleaning materials used during the month using Equation 1C of 40 CFR 63.4551 (Eq. 51.1C below):

$$C = \sum_{k=1}^p (\text{Vol}_{s,k}) (D_{s,k}) (W_{s,k}) \quad (\text{Eq. 51.1C})$$

Where:

C = Total mass of organic HAP in the cleaning materials used during the month, kg.

Vol_{s,k} = Total volume of cleaning material, k, used during the month, liters.

D_{s,k} = Density of cleaning material, k, kg per liter.

W_{s,k} = Mass fraction of organic HAP in cleaning material, k, kg per kg.

p = Number of different cleaning materials used.

4. 40 CFR 63.4551 (e)(4) If the permittee chooses to account for the mass of organic HAP contained in waste materials sent or designated for shipment to a hazardous waste TSDF in Equation 1 of this section (Eq 51.1 of this permit), then the permittee shall determine the mass according to paragraphs (e)(4)(i) through (iv) of this section.
- (a) 40 CFR 63.4551 (e)(4)(i) The permittee may only include waste materials in the determination that are generated by coating operations in the affected source for which the permittee uses Equation 1 of this section (Eq 51.1 of this permit) and that will be treated or disposed of by a facility that is regulated as a TSDF under 40 CFR part 262, 264, 265, or 266. The TSDF may be either off-site or on-site. The permittee may not include organic HAP contained in wastewater.
- (b) 40 CFR 63.4551 (e)(4)(ii) The permittee shall determine either the amount of the waste materials sent to a TSDF during the month or the amount collected and stored during the month and designated for future transport to a TSDF. Do not include in the determination any waste materials sent to a TSDF during a month if it has already been included in the amount collected and stored during that month or a previous month.

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

- (c) 40 CFR 63.4551 (e)(4)(iii) Determine the total mass of organic HAP contained in the waste materials specified in paragraph (e)(4)(ii) of this section.
- (d) 40 CFR 63.4551 (e)(4)(iv) The permittee shall document the methodology the permittee uses to determine the amount of waste materials and the total mass of organic HAP they contain, as required in 40 CFR 63.4530(g). If waste manifests include this information, they may be used as part of the documentation of the amount of waste materials and mass of organic HAP contained in them.
- c. 40 CFR 63.4551 (f) Calculate the total mass of coating solids used. Determine the total mass of coating solids used, kg, which is the combined mass of coating solids for all the coatings used during each month, using Equation 2 of 40 CFR 63.4551 (Eq. 51.2 below):

$$M_{st} = \sum_{i=1}^m (\text{Vol}_{c,i}) (D_{c,i}) (M_{s,i}) \quad (\text{Eq. 51.2})$$

Where:

M_{st} = Total mass of coating solids used during the month, kg.

$\text{Vol}_{c,i}$ = Total volume of coating, i, used during the month, liters.

$D_{c,i}$ = Density of coating, i, kgs per liter coating, determined according to 40 CFR 63.4551(c).

$M_{s,i}$ = Mass fraction of coating solids for coating, i, kgs solids per kg coating, determined according to 40 CFR 63.4541(b).

m = Number of coatings used during the month.

- d. 40 CFR 63.4551 (g) Calculate the organic HAP emission rate. Calculate the organic HAP emission rate for the compliance period, kg (lb) organic HAP emitted per kg (lb) coating solids used, using Equation 3 of 40 CFR 63.4551 (Eq. 51.3 below):

$$H_{yr} = \frac{\sum_{y=1}^n H_e}{\sum_{y=1}^n M_{st}} \quad (\text{Eq. 51.3})$$

Where:

H_{yr} = Average organic HAP emission rate for the compliance period, kg organic HAP emitted per kg coating solids used.

H_e = Total mass of organic HAP emissions from all materials used during month, y, kg, as calculated by Equation 1 of this section.

M_{st} = Total mass of coating solids used during month, y, kg, as calculated by Equation 2 of this section.

y = Identifier for months.

n = Number of full or partial months in the compliance period (for the initial compliance period, n equals 12 if the compliance date falls on the first day of a month; otherwise n equals 13; for all following compliance periods, n equals 12).

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

- e. 40 CFR 63.4552 (a) To demonstrate continuous compliance, the organic HAP emission rate for each compliance period, determined according to 40 CFR 63.4551(a) through (g), shall be less than or equal to the applicable emission limit in 40 CFR 63.4490. A compliance period consists of 12 months. Each month after the end of the initial compliance period described in 40 CFR 63.4550 is the end of a compliance period consisting of that month and the preceding 11 months. The permittee shall perform the calculations in 40 CFR 63.4551(a) through (g) on a monthly basis using data from the previous 12 months of operation. If the permittee is complying with a facility-specific emission limit under 40 CFR 63.4490(c), the permittee shall also perform the calculation using Equation 1 in 40 CFR 63.4490(c)(2) on a monthly basis using the data from the previous 12 months of operation.
- f. 40 CFR 63.4552 (b) If the organic HAP emission rate for any 12-month compliance period exceeded the applicable emission limit in 40 CFR 63.4490, this is a deviation from the emission limitation for that compliance period and shall be reported as specified in 40 CFR 63.4510(c)(6) and 63.4520(a)(6).
- g. 40 CFR 63.4552 (c) As part of each semiannual compliance report required by 40 CFR 63.4520, the permittee shall identify the coating operation(s) for which the permittee used the emission rate without add-on controls option. If there were no deviations from the emission limitations, the permittee shall submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit in 40 CFR 63.4490, determined according to 40 CFR 63.4551(a) through (g).
- h. 40 CFR 63.4552 (d) The permittee shall maintain records as specified in 40 CFR 63.4530 and 63.4531.

3. Testing Requirements:

None

4. Monitoring Requirements:

See Recordkeeping Requirements below

5. Recordkeeping Requirements:

- a. 40 CFR 63.4530 The permittee shall collect and keep records of the data and information specified in this section. Failure to collect and keep these records is a deviation from the applicable standard.

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

1. 40 CFR 63.4530 (a) A copy of each notification and report that the permittee submitted to comply with this subpart, and the documentation supporting each notification and report. If the permittee is using the predominant activity alternative under 40 CFR 63.4490(c), the permittee shall keep records of the data and calculations used to determine the predominant activity. If the permittee is using the facility-specific emission limit alternative under 40 CFR 63.4490(c), the permittee shall keep records of the data used to calculate the facility-specific emission limit for the initial compliance demonstration. The permittee shall also keep records of any data used in each annual predominant activity determination and in the calculation of the facility-specific emission limit for each 12-month compliance period included in the semi-annual compliance reports.
2. 40 CFR 63.4530 (b) 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 mass fraction of coating solids for each coating. If the permittee conducted testing to determine mass fraction of organic HAP, density, or mass fraction of coating solids, the permittee shall keep a copy of the complete test report. If the permittee uses information provided to the permittee by the manufacturer or supplier of the material that was based on testing, the permittee shall keep the summary sheet of results provided to the permittee by the manufacturer or supplier. The permittee is not required to obtain the test report or other supporting documentation from the manufacturer or supplier.
3. 40 CFR 63.4530 (c) For each compliance period, the records specified in paragraphs (c)(1) through (4) of this section.
 - (a) 40 CFR 63.4530 (c)(1) A record of the coating operations on which the permittee used each compliance option and the time periods (beginning and ending dates and times) for each option the permittee used.
 - (b) 40 CFR 63.4530 (c)(2) For the compliant material option, a record of the calculation of the organic HAP content for each coating, using Equation 1 of 40 CFR 63.4541.
 - (c) 40 CFR 63.4530 (c)(3) For the emission rate without add-on controls option, a record of the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1, 1A through 1C, and 2 of 40 CFR 63.4551 and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to 40 CFR 63.4551(e)(4); the calculation of the total mass of coating solids used each month using Equation 2 of 40 CFR 63.4551; and the calculation of each 12-month organic HAP emission rate using Equation 3 of 40 CFR 63.4551.

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

4. 40 CFR 63.4530 (d) A record of the name and mass of each coating, thinner and/or other additive, and cleaning material used during each compliance period. If the permittee is using the compliant material option for all coatings at the source, the permittee may maintain purchase records for each material used rather than a record of the mass used.
5. 40 CFR 63.4530 (e) 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.
6. 40 CFR 63.4530 (f) A record of the mass fraction of coating solids for each coating used during each compliance period.
7. 40 CFR 63.4530 (g) If the permittee uses an allowance in Equation 1 of 40 CFR 63.4551 for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to 40 CFR 63.4551(e)(4), the permittee shall keep records of the information specified in paragraphs (g)(1) through (3) of this section.
 - (a) 40 CFR 63.4530 (g)(1) The name and address of each TSDF to which the permittee sent waste materials for which the permittee uses an allowance in Equation 1 of 40 CFR 63.4551, a statement of which subparts under 40 CFR parts 262, 264, 265, and 266 apply to the facility; and the date of each shipment.
 - (b) 40 CFR 63.4530 (g)(2) Identification of the coating operations producing waste materials included in each shipment and the month or months in which the permittee used the allowance for these materials in Equation 1 of 40 CFR 63.4551.
 - (c) 40 CFR 63.4530 (g)(3) The methodology used in accordance with 40 CFR 63.4551(e)(4) to determine the total amount of waste materials sent to or the amount collected, stored, and designated for transport to a TSDF each month; and the methodology to determine the mass of organic HAP contained in these waste materials. This shall include the sources for all data used in the determination, methods used to generate the data, frequency of testing or monitoring, and supporting calculations and documentation, including the waste manifest for each shipment.
8. 40 CFR 63.4530 (h) The permittee shall keep records of the date, time, and duration of each deviation.
 - b. 40 CFR 63.4531 (a) The records shall be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). Where appropriate, the records may be maintained as electronic spreadsheets or as a database.

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

- c. 40 CFR 63.4531 (b) 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.
- d. 40 CFR 63.4531 (c) The permittee shall keep each record on-site 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.

6. Reporting Requirements:

- a. 40 CFR 63.4520 (a) Semi-annual compliance reports. The permittee shall submit semiannual compliance reports for each affected source according to the requirements of paragraphs (a)(1) through (7) of 40 CFR 63.4520. The semiannual compliance reporting requirements may be satisfied by reports required under other parts of the Clean Air Act (CAA), as specified in paragraph (a)(2) of 40 CFR 63.4520.
 - 1. 40 CFR 63.4520 (a)(1) Dates. Unless the Division has approved or agreed to a different schedule for submission of reports under 40 CFR 63.10(a), the permittee shall prepare and submit each semiannual compliance report according to the dates specified in paragraphs (a)(1)(i) through (iv) of this section. Note that the information reported for each of the months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.
 - (a) 40 CFR 63.4520 (a)(1)(i) The first semiannual compliance report shall cover the first semiannual reporting period which begins the day after the end of the initial compliance period described in 40 CFR 63.4540, 40 CFR 63.4550, or 40 CFR 63.4560 that applies to the affected source and ends on June 30 or December 31, whichever date is the first date following the end of the initial compliance period.
 - (b) 40 CFR 63.4520 (a)(1)(ii) Each subsequent semiannual compliance report shall cover the subsequent semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
 - (c) 40 CFR 63.4520 (a)(1)(iii) Each semiannual compliance report shall be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.
 - (d) 40 CFR 63.4520 (a)(1)(iv) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), the permittee may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the date specified in paragraph (a)(1)(iii) of this section.

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

2. 40 CFR 63.4520 (a)(2) Inclusion with title V report. Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 40 CFR part 71 shall report all deviations as defined in this subpart 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 semiannual compliance report pursuant to this section 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 semiannual compliance report includes all required information concerning deviations from any emission limitation in this subpart, its submission will be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a semiannual compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permitting authority.

3. 40 CFR 63.4520 (a)(3) General requirements. The semiannual compliance report shall contain the information specified in paragraphs (a)(3)(i) through (vii) of this section, and the information specified in paragraphs (a)(4) through (7) and (c)(1) of this section that is applicable to the affected source.
 - (a) 40 CFR 63.4520 (a)(3)(i) Company name and address.

 - (b) 40 CFR 63.4520 (a)(3)(ii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

 - (c) 40 CFR 63.4520 (a)(3)(iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 6-month period ending on June 30 or December 31. Note that the information reported for each of the 6 months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.

 - (d) 40 CFR 63.4520 (a)(3)(iv) Identification of the compliance option or options specified in 40 CFR 63.4491 that the permittee used on each coating operation during the reporting period. If the permittee switched between compliance options during the reporting period, the permittee shall report the beginning and ending dates for each option the permittee used.

 - (e) 40 CFR 63.4520 (a)(3)(v) If the permittee used the emission rate without add-on controls or the emission rate with add-on controls compliance option (40 CFR 63.4491(b) or (c)), the calculation results for each rolling 12-month organic HAP emission rate during the 6-month reporting period.

 - (f) 40 CFR 63.4520 (a)(3)(vi) If the permittee used the predominant activity alternative (40 CFR 63.4490(c)(1)), include the annual determination of predominant activity if it was not included in the previous semi-annual compliance report.

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

- (g) 40 CFR 63.4520 (a)(3)(vii) If the permittee used the facility-specific emission limit alternative (40 CFR 63.4490(c)(2)), include the calculation of the facility-specific emission limit for each 12-month compliance period during the 6-month reporting period.
4. 40 CFR 63.4520 (a)(4) No deviations. If there were no deviations from the emission limitations in 40 CFR 63.4490, 63.4492, and 63.4493 that apply to the permittee, the semiannual compliance report shall include a statement that there were no deviations from the emission limitations during the reporting period. If the permittee used the emission rate with add-on controls option and there were no periods during which the continuous parameter monitoring systems (CPMS) were out-of-control as specified in 40 CFR 63.8(c)(7), the semiannual compliance report shall include a statement that there were no periods during which the CPMS were out-of-control during the reporting period.
5. 40 CFR 63.4520 (a)(5) Deviations: Compliant material option. If the permittee used the compliant material option and there was a deviation from the applicable organic HAP content requirements in 40 CFR 63.4490, the semiannual compliance report shall contain the information in paragraphs (a)(5)(i) through (iv) of this section.
- (a) 40 CFR 63.4520 (a)(5)(i) Identification of each coating used that deviated from the applicable emission limit, and each thinner and/or other additive, and cleaning material used that contained organic HAP, and the dates and time periods each was used.
- (b) 40 CFR 63.4520 (a)(5)(ii) The calculation of the organic HAP content (using Equation 1 of 40 CFR 63.4541) for each coating identified in paragraph (a)(5)(i) of this section. The permittee does not need to submit background data supporting this calculation (e.g., information provided by coating suppliers or manufacturers, or test reports).
- (c) 40 CFR 63.4520 (a)(5)(iii) The determination of mass fraction of organic HAP for each thinner and/or other additive, and cleaning material identified in paragraph (a)(5)(i) of 40 CFR 63.4520. The permittee does not need to submit background data supporting this calculation (e.g., information provided by material suppliers or manufacturers, or test reports).
- (d) 40 CFR 63.4520 (a)(5)(iv) A statement of the cause of each deviation.
6. 40 CFR 63.4520 (a)(6) Deviations: Emission rate without add-on controls option. If the permittee used the emission rate without add-on controls option and there was a deviation from the applicable emission limit in 40 CFR 63.4490, the semiannual compliance report shall contain the information in paragraphs (a)(6)(i) through (iii) of 40 CFR 63.4520.

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

- (a) 40 CFR 63.4520 (a)(6)(i) The beginning and ending dates of each compliance period during which the 12-month organic HAP emission rate exceeded the applicable emission limit in 40 CFR 63.4490.

- (b) 40 CFR 63.4520 (a)(6)(ii) The calculations used to determine the 12-month organic HAP emission rate for the compliance period in which the deviation occurred. The permittee shall submit the calculations for Equations 1, 1A through 1C, 2, and 3 of 40 CFR 63.4551; and if applicable, the calculation used to determine mass of organic HAP in waste materials according to 40 CFR 63.4551(e)(4). The permittee does not need to submit background data supporting these calculations (e.g., information provided by materials suppliers or manufacturers, or test reports).

- (c) 40 CFR 63.4520 (a)(6)(iii) A statement of the cause of each deviation.

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

EP 34 Chromium Plating Line #2 (Hexavalent Chrome System)

Chrome Plating Process consisting of the following tanks:

Pre-etch, Etch, Neutralizer, Pre-Activator, Activator, Accelerator, Electroless Copper, Electroless Nickel Bath, Acid Copper Strike, Acid Copper Plate, Acid Activator, Semi-bright Nickel, Bright Nickel, Microporous Nickel, **Chrome Plate* (two tanks)**, Chrome Strip and Nitric Strip, Waste Water Treatment Plant (WWTP)

***Tank(s) subject to NESHAPS Subpart N**

Chrome Plating, rectifier capacity 27,500 amps

Construction commenced: November 2006

Control Equipment for the PM emissions:

Monitoring of surface tension at the chromium anodizing bath, foam blanket

Composite mesh pad/packed-bed fume scrubber

EP 35 Chromium Plating Line #3 (Trivalent Chrome System)

Chrome Plating Process consisting of the following tanks:

Tank 1: Chrome Strip, Tank 2: Rinse, Tank 3: Rinse, Tank 4: Nickel Activator, Tank 5: Rinse, Tank 6: Rinse, **Tank 7: Trivalent Chrome Plating***, Tank 8: Rinse, Tank 9: Rinse, **Tank 10: Passivate***, Tank 11: Rinse, Tank 12: Deionized Water, Tank 13: Dryer

*** Tank(s) subject to NESHAPS Subpart N**

Chrome Plating, rectifier capacity 12,000 amps

Construction commenced: December 2018

Control Equipment for the PM emissions:

Composite mesh pad/packed-bed fume scrubber

APPLICABLE REGULATIONS:

401 KAR 59:010, *New process operations*

401 KAR 63:002 Section 2(4)(h) *40 C.F.R. 63.340 to 63.348, Table 1 (Subpart N), National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks.*

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

1. Operating Limitations:

40 CFR 63.342(d)(3) (**Applies to EP 34 tanks subject to Subpart N only**)

- a. If a chemical fume suppressant containing a wetting agent is used, the surface tension of the electroplating or anodizing bath contained within the affected source shall not exceed 40 dynes per centimeter (dynes/cm) as measured with a stalagmometer, or 33 dynes/cm as measured with a tensiometer, at any time during operation of the tank.

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

40 CFR 63.342(f)

b. Work practice standards: (**Applies to EP 34 tanks subject to Subpart N only**)

1. At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain any affected source, including associated air pollution control devices and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the operation and maintenance plan described in Section 5: Specific Recordkeeping Requirements, below.
2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan required by paragraph 3 of 40 CFR 63.342(f).

40 CFR 63.342(e)

c. Standards for decorative electroplating tanks using a trivalent chromium bath (**Applies to EP 35 tanks subject to Subpart N only**)

1. The trivalent chromium bath shall incorporate a wetting agent as a bath ingredient. The wetting agent must be an ingredient in the trivalent chromium bath components purchased as a package.
- d. The permittee shall use a fume suppressant operating at 40 dynes per centimeter as measured by a tensiometer as specified in manufacturer's recommendations. (**Applies to EP 35 tanks subject to Subpart N only**)
- e. The permittee shall not add PFOS-based fume suppressants to any affected decorative chromium electroplating tank. [40 CFR 63.342(d) & (e)]
- f. Scrubber #2 shall be operated according to manufacturer's specification at all times plating takes place in any nickel tank (to include tanks 319-326, 328 and 331-337).

2. Emission Limitations:

- a. The concentration of total chromium in the exhaust gas stream discharged to the atmosphere shall not exceed 0.007 mg/dscm (3.1×10^{-6} gr/dscf) for **EP 34 tanks subject to Subpart N only**. [40 CFR 63.342(d)]

Compliance Demonstration Method:

The affected source shall be considered to meet this limit if operated according to the conditions set forth in Section 1. Operating Limitations (a) & (b), above.

- b. For emissions from a control device or stack no person shall cause, suffer, allow or permit the emission into the open air of particulate matter from any affected facility which is in excess of 2.34 pounds/hour. [401 KAR 59:010, Section 3(2)]

Compliance Demonstration Method:

For tanks not subject to NESHAPS Subpart N, compliance with the mass emission limit is assumed based on rate of emissions submitted by the source. For tanks subject to NESHAPS Subpart N, the source is deemed to be in compliance with 401 KAR 59:010 when the source is in compliance with NESHAPS Subpart N.

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

- c. No person shall cause, suffer, allow or permit any continuous emission into the open air from a control device or stack associated with an affected facility which is equal to or greater than twenty (20) percent opacity. [401 KAR 59:010, Section 3(1)(a)]

Compliance Demonstration Method:

For Tanks not subject to NESHAPS Subpart N, See **4. Specific Monitoring Requirements** for opacity compliance demonstration. For tanks subject to NESHAPS Subpart N, the source is deemed to be in compliance with 401 KAR 59:010 when the source is in compliance with NESHAPS Subpart N.

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

3. Testing Requirements:

Pursuant to 401 KAR 50:045, Section 3 and 401 KAR 59:005, Section 2(2) the Cabinet may require testing as deemed necessary in accordance with 401 KAR 50:045, Section 4.

4. Specific Monitoring Requirements:

Monitoring Schedule, Plating Tank: 40 CFR 63.343(c)(5)(ii) (**Applies to EP 34 tanks subject to Subpart N only**)

- a. Initially the surface tension shall be measured once every 4 hours during operation of the tank with a stalagmometer or a tensiometer as specified in Method 306B, Appendix A of 40 CFR Part 63 Subpart N.
- b. The time between monitoring can be increased if there have been no exceedances. The surface tension shall be measured once every 4 hours of tank operation for the first 40 hours of tank operation after initial startup. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 8 hours of tank operation. Once there are no exceedances during another 40 hours of tank operation, surface tension measurement may be conducted once every 40 hours of tank operation on an ongoing basis, until an exceedance occurs. The minimum frequency of monitoring allowed is once every 40 hours of tank operation.
- c. Once an exceedance occurs as indicated through surface tension monitoring, the original monitoring schedule of once every 4 hours shall be resumed. A subsequent decrease in frequency shall follow the schedule laid out in (b) above.

For tanks not subject to Subpart N:

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

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**For nickel tanks (including tanks 319-326, 328 and 331-337)**

e. The permittee shall monitor the pressure drop within Scrubber #2 on a daily basis.

5. Specific Recordkeeping Requirements: 40 CFR 63.342(f)(3)

Operation and maintenance plan (Section B5.a through g) (**Applies to EP 34 tanks subject to Subpart N only**)

- a. The permittee shall adhere to the operation and maintenance plan that was implemented by the source.
- b. If the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the permittee shall revise the operation and maintenance plan within 45 days after such an event occurs. The revised plan shall include procedures for operating and maintaining the process equipment, add-on air pollution control device, or monitoring equipment during similar malfunction events, and a program for corrective action for such events.
- c. If actions taken by the permittee during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan, the permittee shall record the actions taken for that event and shall report by phone such actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the permittee makes alternative reporting arrangements, in advance, with the Division.
- d. To satisfy the requirements to provide an operating and maintenance plan, the permittee may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans, provided the alternative plans meet the requirements of this section.
- e. Determination of whether acceptable operation 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; review of the operation and maintenance plan, procedures, and records; and inspection of the source.
- f. Based on the results of a determination made under paragraph 2(i) of 40 CFR 63.342(f), the Division may require that the permittee make changes to the operation and maintenance plan. Revisions may be required if the Division finds that the plan:
 1. Does not address a malfunction that has occurred;
 2. Fails to provide for the operation of the affected source, the air pollution control techniques, or the control system and process monitoring equipment during a malfunction in a manner consistent with good air pollution control practices; or
 3. Does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as practicable.

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

- g. The permittee shall keep the written operation and maintenance plan on record after it is developed to be made available for inspection, upon request, by the Division for the life of the affected source or until the source is no longer subject to the provisions of Chapter 63, Subpart N. In addition, if the operation and maintenance plan is revised, the permittee shall keep previous (i.e. superseded) versions of the operation and maintenance plan on record to be made available for inspection, upon request, by the Division for a period of 5 years after each revision to the plan.
- h. Additional Records: 40 CFR 63.346 (b) (**Applies to EP 34 tanks subject to Subpart N only**)
1. Maintenance performed on the affected source, any add-on air pollution control, or on monitoring equipment;
 2. Records of the occurrence, duration, and cause (if known) of each malfunction of process, add-on air pollution control, and monitoring equipment;
 3. Records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan;
 4. Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the operation and maintenance plan;
 5. Test reports documenting results of all performance tests;
 6. All measurements as may be necessary to determine the conditions of performance tests;
 7. Records of monitoring data required by Section 4: Specific Monitoring Requirements that are used to demonstrate compliance with 40 CFR Part 63, Subpart N, including the date and time the data are collected;
 8. The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during malfunction of the process, add-on air pollution control, or monitoring equipment;
 9. The total process operating time of the affected source during the reporting period;
 10. Records of the date and time that fume suppressants are added to the electroplating or anodizing bath;
 11. Documentation supporting the notifications and reports required by Section 6: Specific Reporting Requirements.
- i. Additional Records: 40 CFR 63.346 (b)(14) (**Applies to EP 35 tanks subject to Subpart N only**)
1. Records of the bath components purchased, with the wetting agent clearly identified as a bath constituent contained in one of the components.

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

- j. The permittee shall keep record of the daily pressure drop readings for Scrubber #2.
- k. 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.
- l. See Section D.4.

6. Specific Reporting Requirements: 40 CFR 63.347**a. Methods of Reporting:**

Reports may be sent by U.S. mail, fax, another courier, or, if acceptable to both the permittee and the Division, by electronic media.

- 1. Submittals sent by U.S. mail shall be postmarked on or before the specified date.
- 2. Submittals sent by other methods shall be received by the Division on or before the specified date.

b. Ongoing Compliance Status Reports:

The permittee shall prepare a summary report to document the ongoing compliance status of the affected source.

- 1. If there are no exceedances, the report shall be completed annually and retained on site, and made available to the Division upon request.
- 2. If the following two conditions are met, semiannual reports shall be completed and submitted to the Division's Frankfort Regional Office:
 - (a) The total duration of excess emissions (as indicated by the monitoring data collected by the permittee in accordance with Section 4: Specific Monitoring Requirements) is 1 percent or greater of the total operating time for the reporting period; and
 - (b) The total duration of malfunctions of the air pollution control device and monitoring equipment is 5 percent or greater of the total operating time.

c. The Division may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the source.

d. A permittee currently required to submit ongoing compliance status reports on a semiannual or more frequent basis, or that is required to submit the annual report instead of retaining it at the site, may change to the requirements in b.1 above if the all of the following conditions are met:

- 1. For 1 full year, the ongoing compliance status reports demonstrate that the affected source is in compliance with the relevant emission limit;
- 2. The permittee continues to comply with all applicable recordkeeping and monitoring requirements;
- 3. The Division does not object to a reduced reporting frequency for the affected source.

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

4. Procedures for reducing frequency and submittals of reports can be found in paragraphs 40 CFR 63.347 (h)(3)(ii) and (iii).
- e. **Contents of Ongoing Compliance Status Reports:**
 1. The company name and address of the affected source;
 2. An identification of the operating parameter that is monitored for compliance determination;
 3. The relevant emission limitation for the affected source, and the operating parameter value, or range of values, that correspond to compliance with this emission limitation;
 4. The beginning and ending dates of the reporting period;
 5. A description of the type of process performed in the affected source;
 6. The total operating time of the affected source during the reporting period;
 7. A summary of operating parameter values, including the total duration of excess emissions during the reporting period as indicated by those values, the total duration of excess emissions expressed as a percent of the total source operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to process upsets, control equipment malfunctions, other known causes, and unknown causes;
 8. A certification by a responsible official, as defined in 40 CFR 63.2, that the work practice standards in 40 CFR 63.342(f) were followed in accordance with the operation and maintenance plan for the source;
 9. If the operation and maintenance plan required by 40 CFR 63.342(f)(3) was not followed, an explanation of the reasons for not following the provisions, an assessment of whether any excess emission and/or parameter monitoring exceedances are believed to have occurred, and a copy of the report required by 40 CFR 63.342(f)(3)(iv) documenting that the operation and maintenance plan was not followed;
 10. A description of any changes in monitoring, processes, or controls since the last reporting period;
 11. The name, title, and signature of the responsible official who is certifying the accuracy of the report; and
 12. The date of the report.
- f. The permittee shall submit a copy of the control device inspection and repair log for those times when corrective actions are required due to an opacity exceedance and/or records of any Reference Method 9 opacity observations as noted in Section B (4) d. Copies of these records shall be submitted as a part of the semiannual reporting as required in Section F (5) & (6).
- g. See Section D.5.

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

7. **Specific Control Equipment Operating Conditions:** None

8. **Alternate Operating Scenario:**

When the permittee opts to use the scrubber to comply with Subpart N, the permittee shall meet the following requirements:

Alternate Operating Limitations:

- a. Pressure taps shall be installed at any of the following locations:
 1. At the inlet and outlet of the control system. The inlet tap should be installed in the ductwork just prior to the control device and the corresponding outlet pressure tap should be installed on the outlet side of the control device prior to the blower or on the downstream side of the blower;
 2. On each side of the packed bed within the control system or on each side of each mesh pad within the control system; or
 3. On the front side of the first mesh pad and back side of the last mesh pad within the control system.
- b. Pressure taps shall be sited at locations that are:
 1. Free from pluggage as possible and away from any flow disturbances such as cyclonic demisters.
 2. Situated such that no air infiltration at measurement site will occur that could bias the measurement.
- c. Pressure taps shall be constructed of either polyethylene, polybutylene, or other nonreactive materials.
- d. Nonreactive plastic tubing shall be used to connect the pressure taps to the device used to measure pressure drop.
- e. Any of the following pressure gauges can be used to monitor pressure drop: a magnehelic gauge, an inclined manometer, or a “U” tube manometer.
- f. Prior to connecting any pressure lines to the pressure gauge(s), each gauge should be zeroed. No calibration of the pressure gauges is required.

Alternate Emission Limitations: Same as above

Alternate Testing Requirements:

- a. To demonstrate compliance with this alternative operating scenario, the permittee shall establish site-specific operating parameters, 40 CFR 63.344 (d).

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

- b. During the initial performance test, the permittee shall determine the outlet chromium concentration using the test methods and procedures in 40 CFR 63.344(c), and shall establish as a site-specific operating parameter the pressure drop across the system, setting the value that corresponds to compliance with the applicable emission limitation, using the procedures in 40 CFR 63.344(d)(5). An owner or operator may conduct multiple performance tests to establish a range of compliant pressure drop values, or may set as the compliant value the average pressure drop measured over the three test runs of one performance test and accept ± 2 inches of water column from this value as the compliant range.

Alternate Specific Monitoring Requirements:**Monitoring, Scrubber:**

- a. On and after the date on which the initial performance test is required to be completed under 40 CFR 63.7, the permittee shall monitor and record the pressure drop across the control device once each day that any affected source is operating. To be in compliance with the standards, the composite mesh-pad system shall be operated within ± 2 inches of water column of the pressure drop value established during the initial performance test, or shall be operated within the range of compliant values for pressure drop established during multiple performance tests.
- b. All monitoring equipment shall be installed such that representative measurements of emissions or process parameters from the affected source are obtained. For monitoring equipment purchased from a vendor, verification of the operational status of the monitoring equipment shall include execution of the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system.
- c. Specification for differential pressure measurement devices used to measure pressure drop across a control system shall be in accordance with manufacturer's accuracy specifications.
- d. Once per quarter. Visually inspect device to ensure there is proper drainage, no chromic acid buildup on the packed beds, and no evidence of chemical attack on the structural integrity of the device.
- e. Once per quarter. Visually inspect back portion of the chevron blade mist eliminator to ensure that it is dry and there is no breakthrough of chromic acid mist.
- f. Once per quarter. Visually inspect ductwork from tank or tanks to the control device to ensure there are no leaks.
- g. Add fresh makeup water to the top of the packed bed whenever makeup is added.

Alternate Specific Recordkeeping Requirements: Same as above

Alternate Specific Reporting Requirements: Same as above

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

EP 23 Bryan Boiler for Parts Washer

Description:

Fuel Usage Natural Gas
Fuel Input: 4.5 MMBtu/hr
Date Commenced: 2018

EP 32 Rite – Model 1050S Steam Heating Boiler

Description:

Construction date: 1999
Fuel input: 10.5 MMBtu/hr
Primary fuel: Natural gas
Control device: Industrial boiler multi-clone collector with fly-ash reinjection

EP 37 Hurst Boiler

Description:

Fuel Usage Natural Gas
Fuel input: 9 MMBtu/hr
Date Commenced: 2010

APPLICABLE REGULATIONS:

401 KAR 59:015, *New Indirect Heat Exchangers,*

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

401 KAR 63:002 Section 2(4)(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 the 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 32 once annually, EP 37 once every two years and EP 23 once every five years to demonstrate continuous compliance as specified in 40 CFR 63.7540(a)(10)(i) through (vi). 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)]
 - 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 32 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. For EP 37, the permittee shall conduct a biennial performance tune-up 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 13 months after the initial startup of the new or reconstructed affected source. [40 CFR 63.7515(d)]
- g. For EP 23, the permittee shall conduct a performance tune-up once every five years according to 40 CFR 63.7540(a)(10)(i) through (iv). Each five-year tune-up required by 40 CFR 63.7540(a)(12) shall be no more than 61 months after the previous tune-up. For a new or reconstructed affected source (as defined in 40 CFR 63.7490), the first five-year 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)]
- h. 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. For EP 37, the permittee shall conduct a biennial tune-up of the 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)]
- iii. For EP 23, the permittee shall conduct a five-year tune-up of the 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)(12)]

2. Emission Limitations:

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

Emission Unit	Unit Name	Pollutant	401 KAR 59:015 Limitation (lb/MMBtu)
23	Bryan Boiler for Parts Washer	PM	0.45
		SO ₂	2.09
32	Rite – Model 1050S Steam Heating Boiler	PM	0.51
		SO ₂	2.56
37	Hurst Boiler	PM	0.45
		SO ₂	2.10

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 the plant.

5. Specific Recordkeeping Requirements:

- a. The permittee shall either: [40 CFR 60.48c(g)] (applies only to EP 32)
 - 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 records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the indirect heat exchanger. [40 CFR 60.7(b), 401 KAR 59:005 Section 3(2)]

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

- c. 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)]
- d. 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)]
- e. The permittee shall maintain records of the calendar date, time, occurrence and duration of each startup and shutdown. [40 CFR 63.7555(i)]
- f. The permittee shall maintain records of the type(s) and amount(s) of fuels used during each startup and shutdown. [40 CFR 63.7555(j)]
 - i. *Startup* means either the first-ever firing of fuel in a boiler or process heater for the purpose of supplying steam or heat for heating and/or producing electricity, or for any other purpose, or the firing of fuel in a boiler after a shutdown event for any purpose. Startup ends when any of the steam or heat from the boiler or process heater is supplied for heating, and/or producing electricity, or for any other purpose.
 - ii. *Shutdown* means the cessation of operation of a boiler or process heater for any purpose. Shutdown begins either when none of the steam from the boiler is supplied for heating and/or producing electricity, or for any other purpose, or at the point of no fuel being fired in the boiler or process heater, whichever is earlier. Shutdown ends when there is no steam and no heat being supplied and no fuel being fired in the boiler or process heater.
- g. 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.
- h. The permittee shall maintain monthly records of natural gas usage.

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

“This facility complies with the required initial tune-up according to the procedures in 40 CFR 63.7540(a)(10)(i) through (vi).”
- 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)]

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

- 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 postmarked 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). 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 these reports to the Administrator in the format specified by the Administrator. [40 CFR 63.7550(a), 40 CFR 63.7550(h)(3)]
- i. The permittee shall submit a signed statement in the Notification of Compliance Status report that indicates that a tune-up of the unit was conducted. [40 CFR 63.7530(d)]
- j. 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, biennial, or 5-year tune-up according to 40 CFR 63.7540(a)(10), and not subject to emission limits or operating limits, the permittee may submit only an annual 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 July 31 or January 31, whichever date is the first date that occurs at least 180 days or 1 year, if submitting an annual compliance report, after the compliance date that is specified for the permittee in 40 CFR 63.7495.

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

- ii. The first annual compliance report shall be postmarked or submitted no later than January 31.
 - iii. Each subsequent annual compliance report shall cover the applicable 1-year period from January 1 to December 31.
 - iv. Each subsequent annual compliance report shall be postmarked or submitted no later than January 31.
- k. 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.
- l. 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 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 shall comply with the applicable regulation. Process and emission control equipment at each insignificant activity subject to an opacity standard shall be inspected monthly and a qualitative visible emissions evaluation made. Results of the inspection, evaluation, and any corrective action shall be recorded in a log.

<u>Description</u>	<u>Generally Applicable Regulation</u>
1. Paint Rack Cleaner	401 KAR 59:010
2. Parts Washer for COE Spray Booths	N/A
3. Cooling Towers	N/A
4. Pellet Dryers (2)	401 KAR 59:010
5. Intermediate Storage Bins (3)	401 KAR 59:010
6. Storage Silos	401 KAR 59:010
7. P1 & P3 Mask Cleaners	N/A
8. 5 Stage Washer (phosphate solution and water rinse)	401 KAR 59:010
9. Sand Blasting	401 KAR 59:010
10. COE Pretreatment	401 KAR 59:010
11. Power Wash Booth	N/A
12. Injection molding machines (29) and associated grinding equipment	401 KAR 59:010 401 KAR 63:020
13. Automated/Manual Resist Application	401 KAR 59:010
14. Plastic resin feed system	401 KAR 59:010
15. COE oven (0.9 MMBtu/hr)	N/A
16. Fourteen (14) Air handlers for comfort heating	N/A

SECTION C - INSIGNIFICANT ACTIVITIES (CONTINUED)

- | | |
|---|-----|
| 17. Resin recycling extruder (400 lbs/hr) | N/A |
| 18. Two (2) latex adhesive spray booths | N/A |
| 19. Three (3) polyurethane foam lines | N/A |
| 20. RTV glue application | N/A |

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.
2. VOC emissions, as measured by methods referenced in 401 KAR 50:015, Section 1, shall not exceed the respective limitations specified herein.
3. Sourcewide emissions of VOCs shall not exceed 90 tons per rolling 12 month total.

Compliance demonstration method for VOC:

$$\begin{aligned} \text{Emissions} = & n \\ & \left[\sum_{i=1} M_i \rho_i \right]_{\text{All coating}} + \left[0.38R \right]_{\text{injection molding}} \\ & + \left[\text{monthly usage of natural gas (mmscf)} \times 5.5 \text{ lb/million cubic feet} \right] \\ & + \left[\text{Insignificant Activities} \right] \end{aligned}$$

Where M = pounds of material, "i" (primer, thinner, etc.) used during the month

ρ = percent by weight of VOC in material, "i"

n = total number of emission points

R = tons of resin used during the month

4. **Specific Recordkeeping Requirements:**

The permittee shall keep monthly records showing the amount of each VOC containing material used and a summary of the total amount of VOC emitted during the month. New, 12 month rolling totals representing the most recent year shall also be calculated and recorded. These records shall show compliance with the synthetic minor, VOC emission limitation listed in this permit

5. **Specific Reporting Requirements:**

A. Any deviations from requirements of Section B shall be reported. If no such periods occur during a particular quarter, the permittee shall state this in a report to be submitted semiannually.

B. The following information shall be reported semiannually:

1. The VOC emission calculation for each month.
2. The rolling 12-month total for VOC during each month.

SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

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

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

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

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

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

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

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

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

U.S. EPA Region 4
Air Enforcement Branch
Atlanta Federal Center
61 Forsyth St.
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 PROVISIONS1. 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 shall 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.

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

No construction authorized by this permit (V-20-021)

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

See Section B: Chromium Plating Lines

SECTION I - COMPLIANCE SCHEDULE

None