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

Draft

AIR QUALITY PERMIT

Issued under 401 KAR 52:030

Permittee Name:	**Kentucky Department of Military Affairs - Bluegrass Station Division**
Mailing Address:	**Building 18, 5751 Briar Hill Road, Lexington, KY 40516**
Source Name:	**Kentucky Department of Military Affairs - Bluegrass Station Division**
Mailing Address:	**Building 18, 5751 Briar Hill Road Lexington, KY 40516**
Source Location:	**Same as Above**
Permit ID:	**F-25-016**
Agency Interest #:	**1022**
Activity ID:	**APE20240002**
Review Type:	**Conditional Major, Construction / Operating**
Source ID:	**21-067-00032**
Regional Office:	**Frankfort Regional Office 300 Sower Boulevard, 1st Floor Frankfort, KY 40601 (502) 564-3358**
County:	**Fayette**
Application Complete Date:	**December 21, 2024**
Issuance Date:	
Expiration Date:	

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

TABLE OF CONTENTS

Permit	Permit Type	Activity#	Complete Date	Issuance Date	Summary of Action
F-25-016	Renewal	APE20240002	12/21/2024		Add EP86 Building 135 Touchup Painting. Modify EP05 and EP24. Add insignificant activities.

SECTION A - PERMIT AUTHORIZATION

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

The permittee shall not construct, reconstruct, or modify any affected facilities without first submitting a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:030, Federally-enforceable permits for non-major sources.

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

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

EP01 Helicopter Paint Booth

Description: Paint booth with four HVLP paint guns.
Utilizes a Cascade UG7500 Automatic Spray Gun Cleaner
Control Equipment: XFP-6000 Paint Overspray System for control of particulates (three stage). Filter condition is monitored with differential pressure gauges.
Permanent Total Enclosure with activated carbon adsorption for control of VOCs. Two MSA CHEMGARD infrared gas monitors.
Particulate Control Efficiency: 98%
VOC Control Efficiency: 94.4% (Tested on July 20, 2020)
Permanent total enclosure: Capture efficiency 100%
Date Constructed: October, 2003

Helicopter Media Blasting Booth

Description: Control Equipment: HEPA Filters
Particulate Control Efficiency: 98%

APPLICABLE REGULATIONS:

401 KAR 59:010, *New process operations*

STATE-ORIGIN REQUIREMENTS:

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

1. **Operating Limitations:**
   a. The filters shall be in place and operated according to the manufacturer's specifications and recommendations at any time the associated spray booth is in use. [401 KAR 52:030, Section 10]

   b. The operating limits for the VOC control system shall include the following: [401 KAR 52:030, Section 10]

      i. The permittee shall set the programmable VOC Operator Interface so that VOC sampling occurs once per hour of operation until the warning level is approached.

      ii. The permittee shall discontinue spraying and drying in a danger or high alarm condition.

      iii. The permittee shall operate and maintain the VOC control system in accordance with the manufacturer’s recommendations.

   c. The following operating limits shall apply to the permanent total enclosure (PTE) system: [401 KAR 52:030, Section 10]

      i. The permittee developed a written startup, shutdown and malfunction plan. The plan addresses how the corrective actions to be taken in the event of a malfunction of the emission capture system or the add-on control device.

      ii. The direction of the air flow at all times must be into the enclosure; and in any 3-hour period, either the average facial velocity of air through all natural draft openings in the enclosure must be at least 200 feet per minute, or the pressure drop across the enclosure

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

must be at least 0.007 inches of H_2O, as established in Method 204 of appendix M to 40 CFR part 51.

2. Emission Limitations:

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

Compliance Demonstration Method:
Refer to **4. Specific Monitoring Requirements** and **5. Specific Recordkeeping Requirements** for opacity compliance demonstration.

b. 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 lb/hr. [401 KAR 59:010, Section 3(2)].

Compliance Demonstration Method:
The source is assumed to be in compliance when the filters are in place and properly maintained. Refer to **4. Specific Monitoring Requirements** and **5. Specific Recordkeeping Requirements.**

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

Compliance Demonstration Method:
Based upon the emission rates of toxics and hazardous air pollutants determined by the Cabinet using information provided in the application and supplemental information submitted by the source, the Cabinet determines the affected facility to be in compliance with 401 KAR 63:020 while adhering to the source-wide limits for Chromium VI and 1,6-Hexamethylene Diisocyanate (CAS# 822-06-0) emissions specified in Section D.

d. Refer to Section D for source-wide Chromium VI, 1,6-Hexamethylene Diisocyanate (CAS# 822-06-0), HAP, and VOC emission limitations.

3. Testing Requirements:

a. The permittee shall conduct periodic performance tests for carbon adsorber system using EPA Reference Method 25A or alternate as approved by the Administrator to determine the control efficiency no later than 5 years following the previous performance test.

b. The permittee shall test and replace the helicopter booth carbon bed in accordance with manufacturer’s specifications and recommendations.

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

4. Specific Monitoring Requirements:

a. The permittee shall perform a qualitative visual observation of the opacity of emissions at each stack no less than weekly while the affected facility is operating. If visible emissions from the stacks are observed (not including condensed water in the plume), the permittee shall determine the opacity using U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume). [401 KAR 52:030, Section 10]

b. The permittee shall install, maintain and operate according to manufacturer's specifications a monitoring device (anemometer) to determine the flow rate across the dry filters once a day during the operation of the spray booth and blasting booth. A permanent label displaying the operating range established for each collector shall be posted next to the selected instrument. [401 KAR 52:030, Section 10]

c. The following is required as part of compliance demonstration for subsection **1. Operating Limitations** b.(iii): [401 KAR 52:030, Section 10]

i. The monitor and relay module described in the CHEMGARD infrared gas monitor manual shall be installed, operated, and maintained accordance with labels, cautions, warnings, instructions, and within limitations stated.

ii. The permittee shall observe digital display of VOC concentration and indicator light conditions daily during times of spraying operations, noting reading and recording results in a log, noting corrective action taken for any abnormal readings.

iii. The permittee shall perform leak checks on all the sample lines and all flow system components and fittings of the CHEMGARD system according to manufacturer's recommendations.

iv. The permittee shall inspect sampling area according to manufacturer's recommendation to ensure the sampling area is free of particulate matter and condensing moisture, and the sample line does not draw moisture up the line.

v. The permittee shall examine end-of-sample-line filters quarterly per manufacturer's recommendation for dirt/dust build-up and replace when necessary and maintain a log of filter replacement.

vi. The permittee shall calibrate infrared gas monitor to zero and check alarm quarterly per manufacturer's recommendation and maintain a log calibration adjustment.

vii. The permittee shall alternate the gas monitors quarterly.

d. The permittee shall monitor the 12-month rolling total VOC and HAP emissions monthly. [401 KAR 52:030, Section 10]

5. Specific Recordkeeping Requirements:

a. The permittee shall maintain a log of the qualitative visual observations made as specified in **4. Specific Monitoring Requirements** (a) including the date, time, initials of observer,

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

whether any emissions were observed (yes/no), and any U.S. EPA Reference Method 9 readings taken. [401 KAR 52:030, Section 10]

b. The permittee shall maintain a daily log of the anemometer readings for the particulate 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. [401 KAR 52:030, Section 10]

c. The following is required as part of compliance demonstration for subsection **1. Operating Limitations** b.(i) and b.(ii): [401 KAR 52:030, Section 10]

i. The permittee shall keep daily records of the VOC concentration determined by the VOC control system.

ii. The permittee shall maintain at the source for a period of at least 2 years daily records of the amount of solvent recovered by the VOC control system.

d. The permittee shall keep manufacturer's specifications for the particulate matter filters and VOC control system onsite. [401 KAR 52:030, Section 10]

e. The permittee shall keep a log of monitoring device calibrations. [401 KAR 52:030, Section 10]

f. The permittee shall keep the records of the data and documentation used to support that the capture system meets the criteria in Method 204 of Appendix M to 40 CFR part 51 for a PTE that has a capture efficiency of 100 percent. [401 KAR 52:030, Section 10]

g. Monthly records shall be kept of all materials used containing VOC and HAP, including the product type, amount used and the weight percentages VOC and all individual HAPs. [401 KAR 52:030, Section 10]

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

6. Specific Reporting Requirements:

a. The permittee shall report all deviations from permit conditions as part of the semiannual reporting as required in Section F (5) & (6). [401 KAR 52:030, Section 10]

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). [401 KAR 52:030, Section 10]

c. The permittee shall report the number of gallons of each coating applied, the amount of VOC's and HAPs contained in the coatings, and the source-wide monthly and twelve (12) month rolling total VOC and HAPs emissions as part of the semiannual reporting as required in Section F (5) & (6). [401 KAR 52:030, Section 10]

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

d. Refer to Section F for general reporting requirements.

6. Specific Control Equipment Operating Conditions:
Refer to Section E.

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

EP02 (7A and 7B) 221 D Painting

Description: Two paint booths with three electric baking ovens to paint small metal parts. Utilizes a Chemchamp paint gun cleaner.
Handheld anemometers are utilized to determine exhaust flow and filter efficiency.
Control Equipment: Three-stage filters contained in a Three-stage Filter Bank.
Stage 1: Polyester roll media
Stage 2: Twenty 20”x20” MEPT panels
Stage 3: Twenty 20”x20”x12” six-pocket bag filters
Particulate control efficiency: 98%
Date constructed: 1978

EP04 (16A, 16B and 16C) 3B Small Parts Paint Booth (Hanging Booth)

Description: Two station paint booths share common electric bake ovens for EP04 and EP07. Utilizes a Chemchamp paint gun cleaner.
Handheld anemometers are utilized to determine exhaust flow and filter efficiency.
Control Equipment: Three-stage Filters contained in a Three-stage Filter Bank.

Filter Set 1
Stage 1: Polyester roll media
Stage 2: Eighteen 20”x20” MEPT panels
Stage 3: Eighteen 20”x20”x12” six-pocket bag filters
Particulate control efficiency: 98%
Date constructed: 1986

Filter Set 2
Stage 1: Polyester roll media
Stage 2: Thirty 20”x20” MEPT panels
Stage 3: Thirty 20”x20”x12” six-pocket bag filters
Particulate control efficiency: 98%
Date constructed: 1986

EP07 (20) 3C Small Parts Paint Booth (Flat Booth)

Description: Paint booth shares common electric bake ovens for EP04 and EP07.
Handheld anemometers are utilized to determine exhaust flow and filter efficiency.
Utilizes a Chemchamp paint gun cleaner.
Control Equipment: Three-stage Filters contained in a Three-stage Filter Bank.
Stage 1: Polyester roll media
Stage 2: Twenty 20”x20” MEPT panels
Stage 3: Twenty 20”x20”x12” six-pocket bag filters.
Particulate control efficiency: 98%
Date constructed: 1988

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

EP08 (39) 221F Drive In Paint Booth

Description: Drive in paint booth for trucks, vans and large equipment. Paint booth utilizes a propane fired direct heat exchanger. Handheld anemometers are utilized to determine exhaust flow and filter efficiency.
Utilizes a Chemchamp paint gun cleaner.
Control Equipment: Three-stage Filters contained in a Three-stage Filter Bank.
Stage 1: Polyester roll media
Stage 2: Sixty-four 20"x20" MEPT panels
Stage 3: Sixty-four 20"
x20"x12" six-pocket bag filters
Particulate control efficiency: 98%
Date constructed: 1988

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

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

1. **Operating Limitations:**
   a. The filters shall be in place and operated in accordance with the manufacturer's specifications and recommendations at all times when the associated machine is applying paint. [401 KAR 52:030, Section 10]

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

      Compliance Demonstration sMethod:
      Refer to **4. Specific Monitoring Requirements** and **5. Specific Recordkeeping Requirements** for opacity compliance demonstration.

   b. 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 lb/hr. [401 KAR 59:010, Section 3(2)]

      Compliance Demonstration Method:
      The source is assumed to be in compliance when the filters are in place and properly maintained. Refer to **4. Specific Monitoring Requirements** and **5. Specific Recordkeeping Requirements**.

   c. Refer to Section D for source-wide Chromium VI, 1,6-Hexamethylene Diisocyanate (CAS# 822-06-0), HAP, and VOC emission limitations.

   d. Persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner

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

or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. Evaluation of such facilities as to adequacy of controls and/or procedures and emission potential will be made on an individual basis by the cabinet. [401 KAR 63:020, Section 3]

Compliance Demonstration Method:
Based upon the emission rates of toxics and hazardous air pollutants determined by the Cabinet using information provided in the application and supplemental information submitted by the source, the Cabinet determines the affected facility to be in compliance with 401 KAR 63:020 while adhering to the source-wide limits for Chromium VI and 1,6-Hexamethylene Diisocyanate (CAS# 822-06-0) emissions specified in Section D.

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

4. Specific Monitoring Requirements:

a. The permittee shall perform a qualitative visual observation of the opacity of emissions at each stack no less than weekly while the affected facility is operating. If visible emissions from the stacks are observed (not including condensed water in the plume), the permittee shall determine the opacity using U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume). [401 KAR 52:030, Section 10]

b. The permittee shall install, maintain and operate according to manufacturer's specifications a monitoring device (anemometers) to determine the flow rate across the dry filters once a day during the operation of the spray booth. A label displaying the operating range established for each collector shall be posted next to the selected instrument. [401 KAR 52:030, Section 10]

c. The permittee shall monitor the 12-month rolling total VOC and HAP emissions monthly. [401 KAR 52:030, Section 10]

5. Specific Recordkeeping Requirements:

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

b. The permittee shall maintain records of calibration of the monitoring device and a log of the anemometer readings for the filters, including the date, and dates of filter replacements. For any booth that is not in operation on a given date, this fact should also be noted. [401 KAR 52:030, Section 10]

c. The permittee shall keep manufacturer's filter specifications on site. [401 KAR 52:030, Section 10]

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

d. The permittee shall maintain monthly records of all materials used containing VOC and HAP, including the product type, amount used and the weight percentages for VOC and all individual HAPs. [401 KAR 52:030, Section 10]

e. At the end of each month, the permittee shall calculate VOC and HAP emissions according to Section D, and every month, a new 12-month rolling total for VOC and HAP emissions shall be calculated and recorded. [401 KAR 52:030, Section 10]

6. Specific Reporting Requirements:

a. The permittee shall report all deviations from permit conditions as part of the semiannual reporting as required in Section F (5) & (6). [401 KAR 52:030, Section 10]

b. The permittee shall submit a copy of the inspection and repair log for those times when corrective actions are required due to an opacity exceedance and/or records of any U.S. EPA Reference Method 9 opacity observations as noted in **4. Specific Monitoring Requirements** (a). Copies of these records shall be submitted as a part of the semiannual reporting as required in Section F (5) & (6). [401 KAR 52:030, Section 10]

c. The permittee shall report the number of gallons of each coating applied, the amount of VOC's and HAP's contained in the coatings, and the source wide monthly and 12-month rolling total VOC and HAPs emissions as part of the semiannual reporting as required in Section F (5) & (6). [401 KAR 52:030, Section 10]

d. Refer to Section F for general reporting requirements.

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

EP48 (86) Touchup Surface Coating Hangars 192A&C, 194, and 352

Description: The facility performs touchup helicopter painting activities outside of the paint booths. An HVLP spray gun is used for coating activities.
Control Equipment: Building Enclosure
Particulate control efficiency: 70%
Date constructed: 2017

EP86 Building 135 Touchup Painting

Description: Touch-up painting for small portions of surfaces of immobile military equipment. Coatings are applied using manually brushed-on coatings and one manually operated HVLP spray gun.
Control Equipment: Building Enclosure
Particulate control efficiency: 70%
Date constructed: 2023, Modified 2024

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

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

1. **Operating Limitations:**
   The permittee shall keep all hangar doors closed during surface coating activities. [401 KAR 52:030, Section 10]

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

      Compliance Demonstration Method:
      Refer to **4. Specific Monitoring Requirements** and **5. Specific Recordkeeping Requirements** for opacity compliance demonstration.

   b. 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 lb/hr. [401 KAR 59:010, Section 3(2)]

      Compliance Demonstration Method:
      The source is assumed to be in compliance when all hangar doors are closed during surface coating activities. Refer to **4. Specific Monitoring Requirements** and **5. Specific Recordkeeping Requirements**.

   c. Refer to Section D for source-wide 4-Chlorobenzotrifluoride (CAS# 98-56-6), 1,6-Hexamethylene Diisocyanate (CAS# 822-06-0), HAP, and VOC emission limitations.

   d. Persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner

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

or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. Evaluation of such facilities as to adequacy of controls and/or procedures and emission potential will be made on an individual basis by the cabinet. [401 KAR 63:020, Section 3]

Compliance Demonstration Method:
Based upon the emission rates of toxics and hazardous air pollutants determined by the Cabinet using information provided in the application and supplemental information submitted by the source, the Cabinet determines the affected facility to be in compliance with 401 KAR 63:020 while adhering to the source-wide limits for 4-Chlorobenzotrifluoride (CAS# 98-56-6) and 1,6-Hexamethylene Diisocyanate (CAS# 822-06-0) emissions specified in Section D.

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

4. Specific Monitoring Requirements:

a. The permittee shall perform a qualitative visual observation of the opacity of emissions at each stack no less than weekly while the affected facility is operating. If visible emissions from the stacks are observed (not including condensed water in the plume), the permittee shall determine the opacity using U.S. EPA Reference Method 9. In lieu of determining the opacity using U.S. EPA Reference Method 9, the permittee shall immediately perform a corrective action which results in no visible emissions (not including condensed water in the plume). [401 KAR 52:030, Section 10]

b. The permittee shall monitor whether hangar doors were closed during coating activities. [401 KAR 52:030, Section 10]

c. The permittee shall monitor the 12-month rolling total 4-Chlorobenzotrifluoride (CAS# 98-56-6), 1,6-Hexamethylene Diisocyanate (CAS# 822-06-0), VOC and HAP emissions monthly. [401 KAR 52:030, Section 10]

5. Specific Recordkeeping Requirements:

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

b. The permittee shall record whether hangar doors were closed during coating activities. [401 KAR 52:030, Section 10]

c. The permittee shall maintain monthly records of all materials used containing 4-Chlorobenzotrifluoride (CAS# 98-56-6), 1,6-Hexamethylene Diisocyanate (CAS# 822-06-0), VOC and HAP, including the product type, amount used and the weight percentages for VOC and all individual HAPs. [401 KAR 52:030, Section 10]

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

d. At the end of each month, the permittee shall calculate 4-Chlorobenzotrifluoride (CAS# 98-56-6), 1,6-Hexamethylene Diisocyanate (CAS# 822-06-0), VOC and HAP emissions according to Section D, and every month, a new 12-month rolling total for 4-Chlorobenzotrifluoride (CAS# 98-56-6), VOC and HAP emissions shall be calculated and recorded. [401 KAR 52:030, Section 10]

6. Specific Reporting Requirements:

a. The permittee shall submit a copy of the inspection and repair log for those times when corrective actions are required due to an opacity exceedance and/or records of any U.S. EPA Reference Method 9 opacity observations as noted in **4. Specific Monitoring Requirements** (a). Copies of these records shall be submitted as a part of the semiannual reporting as required in Section F (5) & (6). [401 KAR 52:030, Section 10]

b. The permittee shall report all deviations from permit conditions as part of the semiannual reporting as required in Section F (5) & (6). [401 KAR 52:030, Section 10]

c. The permittee shall report the number of gallons of each coating applied, the amount of 4-Chlorobenzotrifluoride (CAS# 98-56-6), VOC's and HAP's contained in the coatings, and the source wide monthly and 12-month rolling total 4-Chlorobenzotrifluoride (CAS# 98-56-6), 1,6-Hexamethylene Diisocyanate (CAS# 822-06-0), VOC and HAPs emissions as part of the semiannual reporting as required in Section F (5) & (6). [401 KAR 52:030, Section 10]

d. Refer to Section F for general reporting requirements.

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

EP05 (18a) 221F & 3C Blast Cabinets (Aluminum Parts)
Description: Hand sandblast cabinets
Control Equipment: Universal Blast Machine cloth back/filter cabinet with dust collectors.
PM Control Efficiency: 99%
Date constructed: 1986, 2025

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

1. **Operating Limitations:**
The filters shall be in place and operated according to the manufacturer's specifications and recommendations or a written operating and maintenance plan maintained onsite at any time the associated blast cabinet is in use. [401 KAR 52:030, Section 10]

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

Compliance Demonstration Method:
The source is assumed to be in compliance when the filters are in place and properly maintained and the emissions are vented inside the building.

b. 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 lb/hr. [401 KAR 59:010, Section 3(2)]

Compliance Demonstration Method:
The source is assumed to be in compliance when the filters are in place and properly maintained. Refer to **4. Specific Monitoring Requirements** and **5. Specific Recordkeeping Requirements**.

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

4. **Specific Monitoring Requirements:**
The permittee shall visually inspect the filter once a week during the operation of the unit to ensure that the manufacturer's recommendations or the written operating and maintenance plan established in **1. Operating Limitations** are followed. [401 KAR 52:030, Section 10]

5. **Specific Recordkeeping Requirements:**
a. The permittee shall maintain a log of the weekly filter inspection, including the date, and document the date and time of filter maintenance and replacements. [401 KAR 52:030, Section 10]

b. The permittee shall keep manufacturer's filter specifications, or a written operating and maintenance plan, on site. [401 KAR 52:030, Section 10]

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

6. Specific Reporting Requirements:

The permittee shall report all deviations from permit conditions as part of the semiannual reporting as required in Section F (5) & (6). [401 KAR 52:030, Section 10]

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

EP11 (43) Building 1 Two (2) Boilers
Description: Rated Capacity: 1.884 MMBtu/hr each
Primary Fuel: Natural Gas
Backup Fuels: Distillate Oils No. 1 and No. 2
Date installed: November, 1995

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

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

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

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

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

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

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

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

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

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

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

   f. Distillate oil may only be used during periods of gas curtailment, gas supply interruption, startups, or for periodic testing, maintenance, or operator training on liquid fuel. Periodic testing, maintenance, or operator training on liquid fuel shall not exceed a combined total of 48 hours during any calendar year to preclude 40 CFR 63 Subpar JJJJJJ. [40 CFR 63.11195]

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

2. Emission Limitations:

a. The permittee shall not cause emissions of particulate matter in excess of 0.42 lb/MMBtu actual heat input. [401 KAR 59:015, Section 4(1)(c)]

b. The permittee shall not cause emissions of particulate matter in excess of 20 percent opacity, except: [401 KAR 59:015, Section 4(2)]

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

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

c. The permittee shall not cause emissions of gases that contain sulfur dioxide in excess of 1.81 lb/MMBtu actual heat input. [401 KAR 59:015, Section 5(1)(c)]

Compliance Demonstration Method:
Compliance with the 401 KAR 59:015 emission standards is assumed. [401 KAR 50:045, Section 4(3)(c)1.]

d. Refer to Section D for the source-wide VOC and HAPs emission limitations.

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

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

3. Testing Requirements:
Performance testing using the reference methods specified in 401 KAR 50:015 shall be conducted if required by the Cabinet. [401 KAR 50:045, Section 1, and 401 KAR 59:005, Section 2(2)]

4. Specific Monitoring Requirements:

a. The permittee shall maintain records of the reason(s) No. 1 or 2 fuel oil is burned (gas curtailment, gas supply interruption, startups, or for periodic testing, maintenance, or

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

operator training on liquid fuel) and the number of hours liquid fuel is burned on a monthly basis [401 KAR 52:030, Section 10]

b. The permittee shall monitor the amount of natural gas combusted, in MMscf, and the amount of liquid fuel combusted on a monthly basis. [401 KAR 52:030, Section 10]

c. The permittee shall monitor the 12-month rolling total VOC and HAPs emissions monthly. [401 KAR 52:030, Section 10]

5. Specific Recordkeeping Requirements:

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

b. The permittee shall keep a record of the date, the hours of duration, and the reason for liquid fuel use. Acceptable reasons are listed in subsection **1. Operating Limitations**. [401 KAR 52:030, Section 10]

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

d. At the end of each month, the permittee shall calculate VOC and HAP emissions according to Section D, and every month, a new 12-month rolling total for VOC and HAP emissions shall be calculated and recorded. [401 KAR 52:030, Section 10]

6. Specific Reporting Requirements:

The permittee shall report the source wide monthly and 12 month rolling total VOC and HAPs emissions as part of the semiannual reporting as required in Section F (5) & (6). [401 KAR 52:030, Section 10]

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

EP13 (48A) 221 Emergency Generator 00514
Description:
Caterpillar Diesel Fuel-Fired Power Generator Set
Horsepower: 587
BTU input: 1.4 MMBtu/hour
Date Installed: 1996

EP15 (48C) 221 Emergency Generator O3340
Description:
Caterpillar Diesel Fuel-Fired Power Generator Set
Horsepower: 587
BTU input: 1.4 MMBtu/hour
Date Installed: 2000

EP16 (48D) 221 Emergency Generator l5227
Description:
Onan Diesel Fuel-Fired Power Generator Set
Horsepower: 600
BTU input: 2.1 MMBtu/hour
Date Installed: 1996

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

1. **Operating Limitations:**
   a. The permittee must comply with the requirements in Table 2d to 40 CFR 63, Subpart ZZZZ that apply. The permittee must comply with the following requirements: [40 CFR 63.6603(a)]

      i. Change oil and filter every 500 hours of operation or within 1 year + 30 days of the previous change, whichever comes first; [40 CFR 63, Subpart ZZZZ, Table 2d(4)(a)]

      ii. Inspect air cleaner every 1,000 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary; and [40 CFR 63, Subpart ZZZZ, Table 2d(4)(b)]

      iii. Inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary. [40 CFR 63, Subpart ZZZZ, Table 2d(4)(c)]

      iv. Sources have the option to utilize an oil analysis program as described in 40 CFR 63.6625(i) in order to extend the specified oil change requirement in 40 CFR 63, Subpart ZZZZ. [40 CFR 63, Subpart ZZZZ, Table 2d, Footnote 1]

      v. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the

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

schedule required in Table 2d of 40 CFR 63, Subpart ZZZZ, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable. [40 CFR 63, Subpart ZZZZ, Table 2d, Footnote 2]

b. Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-start emission limitation apply. [40 CFR 63.6603, 40 CFR 63.6625(h)]

Compliance Demonstration Method:

i. The permittee must operate and maintain the existing statutory emergency RICE according to the manufacturer's emission-related operating and maintenance instructions, or develop and follow the permittee's own maintenance plan which must provide, to the extent practicable, for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)]

ii. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table 2d to 40 CFR 63, Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the permittee is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the permittee must change the oil within 2 business days or before commencing operation, whichever is later. The permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63.6625(i)]

c. The permittee must use diesel fuel that meets the requirements in 40 CFR 1090.305 for non-road diesel fuel. [40 CFR 63.6604(b)]

d. The permittee must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply at all times. [40 CFR 63.6605(a)]

e. At all times the permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner

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

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

f. The permittee must operate the emergency stationary RICE according to the requirements in 40 CFR 63.6640(f)(1) through (4). In order for the engine to be considered an emergency stationary RICE under 40 CFR 63, Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 63.6640(f)(1) through (4), is prohibited. If the permittee does not operate the engine according to the requirements in 40 CFR 63.6640(f)(1) through (4), the engine will not be considered an emergency engine under 40 CFR 63, Subpart ZZZZ and must meet all requirements for non-emergency engines. [40 CFR 63.6640(f)]

i. There is no time limit on the use of emergency stationary RICE in emergency situations. [40 CFR 63.6640(f)(1)]

ii. The permittee may operate the emergency stationary RICE for the purpose specified in 40 CFR 63.6640(f)(2)(i) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR 63.6640(f)(3) and (4) counts as part of the 100 hours per calendar year allowed by 40 CFR 63.6640(f)(2). [40 CFR 63.6640(f)(2)]

iii. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. [40 CFR 63.6640(f)(2)(i)]

iv. Emergency stationary RICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in 40 CFR 63.6640(f)(2). Except as provided in 40 CFR 63.6640(f)(4)(i) and (ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR 63.6640(f)(4)]

2. Emission Limitations:

Refer to Section D for the source-wide VOC and HAP emission limitations.

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

3. Testing Requirements:

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

4. Specific Monitoring Requirements:

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

b. The permittee shall monitor the hours of operation on a monthly basis. [401 KAR 52:030, Section 10]

c. The permittee shall monitor the 12-month rolling total VOC and HAPs emissions monthly. [401 KAR 52:030, Section 10]

5. Specific Recordkeeping Requirements:

a. The permittee must keep the records described in 40 CFR 63.6655(a)(1) through (5) [40 CFR 63.6655(a)]

i. A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv).

ii. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

iii. Records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).

iv. Records of all required maintenance performed on the air pollution control and monitoring equipment.

v. Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

b. The permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the engine was operated and maintained according to the maintenance plan for the engine. [40 CFR 63.6655(e)]

c. If the engine does not meet the standards applicable to non-emergency engines, the permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for the purpose specified in 40 CFR 63.6640(f)(4)(ii), the permittee must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes. [40 CFR 63.6655(f)]

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

d. Records must be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1). [40 CFR 63.6660(a)]

e. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.6660(b)]

f. The permittee must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). [40 CFR 63.6660(c)]

g. At the end of each month, the permittee shall calculate VOC and HAP emissions according to Section D, and every month, a new 12-month rolling total for VOC and HAP emissions shall be calculated and recorded. [401 KAR 52:030, Section 10]

6. Specific Reporting Requirements:

a. The permittee must report each instance in which the engine did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to 40 CFR 63, Subpart ZZZZ that apply. These instances are deviations from the emission and operating limitations in 40 CFR 63, Subpart ZZZZ and must be reported according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b)].

b. The permittee must report each instance in which the engine did not meet the requirements of Table 8 to 40 CFR 63 Subpart ZZZZ, that apply. [40 CFR 63.6640(e)].

c. If the engine operates for the purpose specified in 40 CFR 63.6640(f)(4)(ii), the permittee must submit an annual report according to the requirements in 40 CFR 63.6650(h)(1) through (3). [40 CFR 63.6650(h)]

d. Beginning on February 26, 2025 for the annual report specified in 40 CFR 63.6650(h) and February 26, 2025 or one year after the report becomes available in CEDRI, whichever is later for all other semiannual or annual reports, submit all semiannual and annual subsequent compliance reports using the appropriate electronic report template on the CEDRI website (https://www.epa.gov/electronic-reporting-air-emissions/cedri) for this subpart and following the procedure specified in 40 CFR 63.9(k), except any CBI must be submitted according to the procedures in 40 CFR 63.6645(h). The date report templates become available will be listed on the CEDRI website. Unless the Administrator or delegated state agency or other authority has approved a different schedule for submission of reports, the report must be submitted by the deadline specified in this subpart, regardless of the method in which the report is submitted. [40 CFR 63.6650(i)]

e. The permittee shall report the source-wide monthly and 12-month rolling total VOC and HAPs emissions as part of the semiannual reporting as required in Section F (5) & (6). [401 KAR 52:030, Section 10]

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

EP17 (51) Building 3 Emergency Generator

Description:

Detroit Diesel, Diesel Fuel-Fired Generator, Model 12V4000
Horsepower: 2328
BTU input: 14.6 MMBtu/hour
Cylinder volume: 4.77 L
Manufactured in 2007
Date Installed: 2007
Controls: None

EP25 (60) Building 221 Emergency Generator

Description:

Caterpillar, Diesel Fuel-Fired Generator, Model C18DITA
Horsepower: 900
BTU input: 5.89 MMBtu/hour
Cylinder volume: 3.02 L
Order was placed after July 11, 2005 and was manufactured after April 1, 2006
Date Installed: 2008
Controls: None

EP36 (75) Building 415 Emergency Generator

Description:

MTU Onsite Energy, Diesel Fuel-Fired Generator, Model #12V2000G85
Horsepower: 1193
BTU input: 7.92 MMBtu/hour
Date Installed: 2013
Controls: None

EP37 (76) Building 194/195 Emergency Generator

Description:

MTU Onsite Energy, Diesel Fuel-Fired Generator, Model #12V2000DS800
Horsepower: 1193
BTU input: 7.92 MMBtu/hour
Date Installed: 2014
Controls: None

EP38 (77) Building 192A/192C Emergency Generator

Description:

MTU Onsite Energy, Diesel Fuel-Fired Generator, Model #12V2000DS800
Horsepower: 1193
BTU input: 7.92 MMBtu/hour
Date Installed: 2014
Controls: None

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

EP39 (78) Building 192B Emergency Generator

Description:

MTU Onsite Energy, Diesel Fuel-Fired Generator, Model #12V2000DS800
Horsepower: 1193
BTU input: 7.92 MMBtu/hour
Date Installed: 2014
Controls: None

EP41 (80) Portable Emergency Air Compressor

Description:

Sullair, Diesel Fuel-Fired Compressor, Model 4024TF270
Horsepower: 60
BTU input: 0.425 MMBtu/hour
Cylinder volume: 0.61 L
Manufactured in 2009
Date Installed: 2009
Controls: None

EP43 (82) Building 221 Emergency Generator

Description:

Kohler, Diesel Fuel-Fired Generator, Model 100REOZJF
Horsepower: 158
BTU input: 1.12 MMBtu/hour
Cylinder volume: 1.13 L
Manufactured in 2015
Date Installed: 2015
Controls: None

EP63 (89) Building 415 Emergency Generator

Description:

Generac, Diesel, Model SD500
Horsepower: 670
Fuel input: 32 gal/hr
Cylinder volume: 2.53 L
Manufactured in 2020
Date Installed: November 2020
Controls: None

EP87 (102) Building 344 Emergency Generator

Description:

Caterpillar model D1250 GC
Horsepower: 1200
Fuel input: 87.4 gal/hr
Cylinder volume: 2.675 L
Manufactured in 2023
Date Installed: March 2023
Controls: None

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

APPLICABLE REGULATIONS:

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

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

1. **Operating Limitations:**
   a. The permittee shall use diesel fuel that meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel. [40 CFR 60.4207(b)]

   b. The permittee shall do all of the following, except as permitted under paragraph (g) of 40 CFR 60.4211: [40 CFR 60.4211(a)]

      i. Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; [40 CFR 60.4211(a)(1)]

      ii. Change only those emission-related settings that are permitted by the manufacturer; and [40 CFR 60.4211(a)(2)]

      iii. Meet the requirements of 40 CFR part 1068, as they apply. [40 CFR 60.4211(a)(3)]

   c. The permittee shall operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of 40 CFR 60.4211. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3), is prohibited. If the permittee does not operate the engine according to the requirements in paragraphs (f)(1) through (3), the engine will not be considered an emergency engine under 40 CFR 63 Subpart IIII and must meet all requirements for non-emergency engines. [40 CFR 60.4211(f)]

      i. There is no time limit on the use of emergency stationary ICE in emergency situations. [40 CFR 60.4211(f)(1)]

      ii. The permittee may operate the emergency stationary ICE for the purpose specified in paragraph (f)(2)(i) of 40 CFR 60.4211 for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of 40 CFR 60.4211 counts as part of the 100 hours per calendar year allowed by this paragraph. [40 CFR 60.4211(f)(2)]

         1. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks

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

and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. [40 CFR 60.4211(f)(2)(i)]

iii. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (f)(2) of 40 CFR 60.4211. Except as provided in paragraph (f)(3)(i) of 40 CFR 60.4211, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR 60.4211(f)(3)]

2. Emission Limitations:

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

i. Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump engines to the emission standards specified in paragraphs (a)(1) through (2) of 40 CFR 60.4202. [40 CFR 60.4202(a)]

1. For engines with a rated power greater than or equal to 37 KW (50 HP), the Tier 2 or Tier3 emission standards for new nonroad CI engines for the same rated power as described in 40 CFR part 1039, appendix I, for all pollutants and the smoke standards as specified in 40 CFR 1039.105 beginning in model year 2007. [40 CFR 60.4202(a)(2)]

Compliance Demonstration Method:
The permittee shall demonstrate compliance with the emission standards by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b), or 40 CFR 60.4205(b) or (c), as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of 40 CFR 60.4211. [40 CFR 60.4211(c)]

b. The following is applicable to EP25:
Owners and operators of pre-2007 model year emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards in table 1 to 40 CFR 60 Subpart IIII. [40 CFR 60.4205(a)]

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

Maximum engine power	Emission standards for stationary pre-2007 model year engines with a displacement of <10 liters per cylinder in g/KW-hr (g/HP-hr)				
	NMHC + NO_X	HC	NO_X	CO	PM
KW>560 (HP>750)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)

Compliance Demonstration Method:

a. The permittee shall demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (5) of this 40 CFR 60.4211. [40 CFR 60.4211(b)]
   i. Purchasing an engine certified to emission standards for the same model year and maximum engine power as described in 40 CFR parts 1039 and 1042, as applicable. The engine must be installed and configured according to the manufacturer's specifications. [40 CFR 60.4211(b)(1)]
   ii. Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly. [40 CFR 60.4211(b)(2)]
   iii. Keeping records of engine manufacturer data indicating compliance with the standards. [40 CFR 60.4211(b)(3)]
   iv. Keeping records of control device vendor data indicating compliance with the standards. [40 CFR 60.4211(b)(4)]
   v. Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 CFR 60.4212, as applicable. [40 CFR 60.4211(b)(5)]

c. Refer to Section D for source-wide VOC and HAP emission limitations.

3. Testing Requirements:

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

4. Specific Monitoring Requirements:

a. The permittee must install a non-resettable hour meter prior to startup of the engines. [40 CFR 60.4209(a)]

b. The permittee shall monitor the hours of operation on a monthly basis. [401 KAR 52:030, Section 10]

c. The permittee shall monitor the 12-month rolling total VOC and HAPs emissions monthly. [401 KAR 52:030, Section 10]

5. Specific Recordkeeping Requirements:

a. The owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time. [40 CFR 60.4214(b)]

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

b. The permittee shall maintain documentation from supplier that the diesel fuel is certified to the standards in 40 CFR 1090.305 to demonstrate compliance with the diesel fuel requirements of 40 CFR 60.4207(b). [401 KAR 52:030, Section 10]

c. At the end of each month, the permittee shall calculate VOC and HAP emissions according to Section D, and every month, a new 12-month rolling total for VOC and HAP emissions shall be calculated and recorded. [401 KAR 52:030, Section 10]

6. Specific Reporting Requirements:

The permittee shall report the source-wide monthly and 12-month rolling total VOC and HAPs emissions as part of the semiannual reporting as required in Section F (5) & (6). [401 KAR 52:030, Section 10]

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

EP40 (79) Building 20 Emergency Fire Pump

Description:
Clarke, Diesel Fire Pump, Model JX6H-UFADF0
Horsepower: 488
BTU input: 3.33 MMBtu/hour
Cylinder volume: 2.25 L
Manufactured in 2010
Date Installed: 2010
Controls: None

APPLICABLE REGULATIONS:

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

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

1. **Operating Limitations:**
   a. The permittee shall use diesel fuel that meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel. [40 CFR 60.4207(b)]

   b. The permittee shall do all of the following, except as permitted under paragraph (g) of 40 CFR 60.4211: [40 CFR 60.4211(a)]

      i. Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; [40 CFR 60.4211(a)(1)]

      ii. Change only those emission-related settings that are permitted by the manufacturer; and [40 CFR 60.4211(a)(2)]

      iii. Meet the requirements of 40 CFR part 1068, as they apply. [40 CFR 60.4211(a)(3)]

   c. The permittee shall operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of 40 CFR 60.4211. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3), is prohibited. If the permittee does not operate the engine according to the requirements in paragraphs (f)(1) through (3), the engine will not be considered an emergency engine under 40 CFR 63 Subpart IIII and must meet all requirements for non-emergency engines. [40 CFR 60.4211(f)]

      i. There is no time limit on the use of emergency stationary ICE in emergency situations. [40 CFR 60.4211(f)(1)]

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

ii. The permittee may operate the emergency stationary ICE for the purpose specified in paragraph (f)(2)(i) of 40 CFR 60.4211 for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of 40 CFR 60.4211 counts as part of the 100 hours per calendar year allowed by this paragraph. [40 CFR 60.4211(f)(2)]

1. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. [40 CFR 60.4211(f)(2)(i)]

iii. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (f)(2) of 40 CFR 60.4211. Except as provided in paragraph (f)(3)(i) of 40 CFR 60.4211, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR 60.4211(f)(3)]

2. Emission Limitations:

a. Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in table 4 to 40 CFR 60 Subpart IIII. [40 CFR 60.4205(c)]

Maximum engine power	Emission standards for stationary post 2009 model year fire pumps with a displacement of <10 liters per cylinder in g/KW-hr (g/HP-hr)		
	NMHC + NO_X	CO	PM
225≤KW<450 300≤HP<600	4.0 (3.0)	3.5 (2.6)	0.20 (0.15)

Compliance Demonstration Method:
The permittee shall comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of 40 CFR 60.4211. [40 CFR 60.4211(c)]

b. Refer to Section D for source-wide VOC and HAP emission limitations.

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

3. Testing Requirements:

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

4. Specific Monitoring Requirements:

a. The permittee shall install a non-resettable hour meter prior to startup of the engines. [40 CFR 60.4209(a)]

b. The permittee shall monitor the hours of operation on a monthly basis. [401 KAR 52:030, Section 10]

c. The permittee shall monitor the 12-month rolling total VOC and HAP emissions monthly. [401 KAR 52:030, Section 10]

5. Specific Recordkeeping Requirements:

a. The permittee shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time. [40 CFR 60.4214(b)]

b. The permittee shall maintain documentation from supplier that the diesel fuel is certified to the standards in 40 CFR 1090.305 to demonstrate compliance with the diesel fuel requirements of 40 CFR 60.4207(b). [401 KAR 52:030, Section 10]

c. At the end of each month, the permittee shall calculate VOC and HAP emissions according to Section D, and every month, a new 12-month rolling total for VOC and HAP emissions shall be calculated and recorded. [401 KAR 52:030, Section 10]

6. Specific Reporting Requirements:

The permittee shall report the source-wide monthly and 12-month rolling total VOC and HAPs emissions as part of the semiannual reporting as required in Section F (5) & (6). [401 KAR 52:030, Section 10]

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

EP24 (59) Building 192 Type II Iridite Dip Tank Room

Description:

Cleaner Dip Tank, Deoxidizer Dip Tank, and Surface Treatment Dip Tank, with 4 water rinse tanks.
Date Installed: 2008
Date Modified: Type II Conversion 2023, Plastic Tank Replacement 2025

EP 26 (61) Building 3C Iridite Dip Tank Room

Description:

Iridite Dip Tank, Two Isoprep Dip tanks
Date Installed: April 1985

EP 28 (63) Downdraft Table #P10274003

Description:

One System Technologies Downdraft Sanding Table
Control Equipment: Type of Filter Unit: HEPA: Filtering Material: Fabric
Control Efficiency: 98%
Date Installed: September 2010

EP 29 (64) Downdraft Table #P10274002

Description:

one System Technologies Downdraft Sanding Table
Control Equipment: Type of Filter Unit: HEPA: Filtering Material: Fabric
Control Efficiency: 98%
Date Installed: September 2010

EP 30 (65 & 66) Two Downdraft Tables #P10274001, # P11336001

Description:

Two System Technologies Downdraft Sanding Tables
Control Equipment: Type of Filter Unit: HEPA: Filtering Material: Fabric
Control Efficiency: 98%
Date Installed: December 2011

EP 31 (67) Downdraft Table #P11341001

Description:

One System Technologies Downdraft Sanding Table
Control Equipment: Type of Filter Unit: HEPA: Filtering Material: Fabric
Control Efficiency: 98%
Date Installed: December 2011

EP 32 (68) Downdraft Table #P13070001

Description:

One System Technologies Downdraft Sanding Table
Control Equipment: Type of Filter Unit: HEPA: Filtering Material: Fabric
Control Efficiency: 98%
Date Installed: October 2012

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

EP 33 (69) Building 221A Parkerization Dip Tank Process
Date Installed: 2014

EP 60 (88) Building 3C Type II Iridite Process (7 tanks)
Description:
Cleaner Dip Tank, Deoxidizer Dip tank, and Surface Treatment Dip tank with 4 water rinse tanks
Date Installed: June 2020

EP 64 (90) Downdraft Table #P11341002
Description:
One System Technologies Downdraft Sanding Table
Control Equipment: Type of Filter Unit: HEPA: Filtering Material: Fabric
Control Efficiency: 98%
Date Installed: January 2020

EP 65 (91) Downdraft Table #P17086001
Description:
One DownFlex Downdraft Sanding Table
Control Equipment: Type of Filter Unit: HEPA: Filtering Material: Fabric
Control Efficiency: 98%
Date Installed: January 2017

EP 77, 78, 79, 80, 81, 82, and 83 (92a-g) 7 Superior SD23 Downdraft Sanding Tables, Asset #'s SD23a – SD23g
Description:
7 Superior SD23 Downdraft Sanding Tables
Control Equipment: Type: Nano Fiber: Material: Fabric
Control Efficiency: 99%
Date Installed: December 2021

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

401 KAR 63:002 Section 2(4)(uuuuu), 40 C.F.R. 63.11504 through 63.11512, Table 1 (Subpart WWWWWW), *National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations*

1. **Operating Limitations:**
   a. For the operation of EP 28-32, and EP 64-65 affected new dry mechanical polishing equipment that emits one or more of the plating and polishing metal HAP, the permittee must operate a capture system that captures particulate matter (PM) emissions from the dry mechanical polishing process and transports the emissions to a cartridge, fabric, or high efficiency particulate air (HEPA) filter, according to paragraphs (e)(1) and (2) of 40 CFR 63.11507. [40 CFR 63.11507(e)]

      i. The permittee shall operate all capture and control devices according to the manufacturer's specifications and operating instructions. [40 CFR 63.11507(e)(1)]

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

ii. The permittee shall keep the manufacturer's specifications and operating instructions at the facility at all times in a location where they can be easily accessed by the operators. [40 CFR 63.11507(e)(2)]

Compliance Demonstration Method:

a. The permittee shall demonstrate initial compliance according to paragraphs (c)(8)(i) through (iii) of 40 CFR 63.11508. [40 CFR 63.11508(c)(8)]
   i. The permittee shall install a control system that is designed to capture PM emissions from the polishing operation and exhaust them to a cartridge, fabric, or HEPA filter. [40 CFR 63.11508(c)(8)(i)]
   ii. The permittee shall state in the Notification of Compliance Status that they have installed the control system according to the manufacturer's specifications and instructions. [40 CFR 63.11508(c)(8)(ii)]
   iii. The permittee shall keep the manufacturer's operating instructions at the facility at all times in a location where they can be easily accessed by the operators. [40 CFR 63.11508(c)(8)(iii)]

b. For the operation of affected new or existing plating and polishing process units (EP 24, EP 26, EP 33, and EP 60) that contain, apply, or emit one or more of the plating and polishing metal HAP, the permittee shall implement the applicable management practices in paragraphs (g)(1) through (12) of 40 CFR 63.11507, as practicable. [40 CFR 63.11507(g)]

   i. Minimize bath agitation when removing any parts processed in the tank, as practicable except when necessary to meet part quality requirements. [40 CFR 63.11507(g)(1)]

   ii. Maximize the draining of bath solution back into the tank, as practicable, by extending drip time when removing parts from the tank; using drain boards (also known as drip shields); or withdrawing parts slowly from the tank, as practicable. [40 CFR 63.11507(g)(2)]

   iii. Optimize the design of barrels, racks, and parts to minimize dragout of bath solution (such as by using slotted barrels and tilted racks, or by designing parts with flow-through holes to allow the tank solution to drip back into the tank), as practicable. [40 CFR 63.11507(g)(3)]

   iv. Use tank covers, if already owned and available at the facility, whenever practicable. [40 CFR 63.11507(g)(4)]

   v. Minimize or reduce heating of process tanks, as practicable (e.g., when doing so would not interrupt production or adversely affect part quality). [40 CFR 63.11507(g)(5)]

   vi. Perform regular repair, maintenance, and preventive maintenance of racks, barrels, and other equipment associated with affected sources, as practicable. [40 CFR 63.11507(g)(6)]

   vii. Minimize bath contamination, such as through the prevention or quick recovery of dropped parts, use of distilled/de-ionized water, water filtration, pre-cleaning of parts

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

to be plated, and thorough rinsing of pre-treated parts to be plated, as practicable. [40 CFR 63.11507(g)(7)]

viii. Maintain quality control of chemicals, and chemical and other bath ingredient concentrations in the tanks, as practicable. [40 CFR 63.11507(g)(8)]

ix. Perform general good housekeeping, such as regular sweeping or vacuuming, if needed, and periodic washdowns, as practicable. [40 CFR 63.11507(g)(9)]

x. Minimize spills and overflow of tanks, as practicable. [40 CFR 63.11507(g)(10)]

xi. Use squeegee rolls in continuous or reel-to-reel plating tanks, as practicable. [40 CFR 63.11507(g)(11)]

xii. Perform regular inspections to identify leaks and other opportunities for pollution prevention. [40 CFR 63.11507(g)(12)]

Compliance Demonstration Method:

a. The permittee shall demonstrate continuous compliance according to paragraphs (d)(8)(i) and (ii) of 40 CFR 63.11508. [40 CFR 63.11508(d)(8)]
   i. The permittee shall implement the applicable management practices during all times that the affected tank or process is in operation. [40 CFR 63.11508(d)(8)(i)]
   ii. The permittee shall state in their annual compliance certification that they have implemented the applicable management practices, as practicable. [40 CFR 63.11508(d)(8)(ii)]

2. Emission Limitations:

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

Compliance Demonstration Method for opacity:
Refer to **4. Specific Monitoring Requirements** and **5. Specific Recordkeeping Requirements** for opacity compliance demonstration.

b. 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 lb/hr. [401 KAR 59:010, Section 3(2)]

Compliance Demonstration Method:
The emission points are assumed to be in compliance with the emission standard for particulate matter when the control equipment is in place and properly operated and maintained. Refer to **1. Operating Limitations**.

c. Refer to Section D for the source-wide Chromium VI, VOC, and HAP emission limitations.

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

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

4. Specific Monitoring Requirements:

a. The permittee shall perform a qualitative visual observation of the opacity of emissions at each stack no less than weekly while the affected facility is operating. If visible emissions from the stacks are observed (not including condensed water in the plume), the permittee shall determine the opacity using 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). [401 KAR 52:030, Section 10]

b. The permittee shall monitor the 12-month rolling total VOC and HAP emissions monthly. [401 KAR 52:030, Section 10]

5. Specific Recordkeeping Requirements:

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

b. The permittee shall keep the records specified in paragraphs (e)(1) through (3) of 40 CFR 63.11509. [40 CFR 63.11509(e)]

i. A copy of any Initial Notification and Notification of Compliance Status that you submitted and all documentation supporting those notifications. [40 CFR 63.11509(e)(1)]

ii. The records specified in 63.10(b)(2)(i) through (iii) and (xiv) of the General Provisions of 40 CFR Part 63. [40 CFR 63.11509(e)(2)]

iii. The records required to show continuous compliance with each management practice and equipment standard that applies to you, as specified in 40 CFR 63.11508(d), "What are my compliance requirements?" [40 CFR 63.11509(e)(3)]

c. The permittee shall keep each record for a minimum of 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee shall keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee may keep the records offsite for the remaining 3 years. [40 CFR 63.11509(f)]

d. At the end of each month, the permittee shall calculate Chromium VI, VOC, and HAP emissions according to Section D, and every month, a new 12-month rolling total for Chromium VI, VOC, and HAP emissions shall be calculated and recorded. [401 KAR 52:030, Section 10]

6. Specific Reporting Requirements:

a. The permittee shall submit a notification of compliance status to the Division before compliance date specified in 40 CFR 63.11506. The compliance status must include the items specified in paragraphs (b)(2)(i) through (iv) of 40 CFR 63.11509. [40 CFR 63.11509(b)]

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

b. The permittee shall state in their annual certification that they have operated and maintained the control systems according to the manufacturer's specifications and instructions. [40 CFR 63.11509(c)(2)]

c. The permittee shall state in their annual compliance certification that they have implemented the applicable management practices, as practicable. [40 CFR 63.11509(c)(6)]

d. Each annual compliance report shall be prepared no later than January 31 of the year immediately following the reporting period and kept in a readily-accessible location for inspector review. If a deviation has occurred during the year, each annual compliance report shall be submitted along with the deviation report, and postmarked or delivered no later than January 31 of the year immediately following the reporting period. [40 CFR 63.11509(c)(7)]

e. The permittee shall report the deviations, along with the corrective action taken, and submit this report to the Division. [40 CFR 63.11509(d)]

f. The permittee shall report the 12-month rolling total Chromium VI, VOC, and HAP emissions as part of the semiannual reporting as required in Section F (5) & (6). [401 KAR 52:030, Section 10]

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

EP46 (85) Building 6 Emergency Natural Gas Generator
Description:
Cummins Model: C60 N6
Horsepower: 98
Max Fuel Consumption: 933.8 scfh
Manufactured in 2016
Date Installed: 2016
Controls: None

EP47 (53) Building 12A Emergency Propane Generator
Description:
Kohler Model: 60REZGB
Liquefied Petroleum Gas Rich Burn Engine
Horsepower: 105
Max Fuel Consumption: 328 scfh
Manufactured in 2016
Date Installed: 2017
Controls: None

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

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

1. **Operating Limitations:**
   a. The permittee shall operate and maintain stationary SI ICE that achieves the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. [40 CFR 60.4234]

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

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

      ii. The permittee may operate the emergency stationary ICE for the purpose specified in paragraph (d)(2)(i) of 40 CFR 60.4243 for a maximum of 100 hours per calendar year.

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

Any operation for non-emergency situations as allowed by paragraph (d)(3) of 40 CFR 60.4243 counts as part of the 100 hours per calendar year allowed by this paragraph. [40 CFR 60.4243(d)(2)]

1. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. [40 CFR 60.4243(d)(2)(i)]

iii. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (d)(2) of 40 CFR 60.4243. Except as provided in paragraph (d)(3)(i) of 40 CFR 60.4243, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 CFR 60.4243(d)(3)]

2. Emission Limitations:

a. The permittee shall comply with the emission standards in 40 CFR 60.4231(c) for their stationary SI ICE. [40 CFR 60.4233(c)]

Compliance Demonstration Method:

a. Owners and operators of a stationary SI internal combustion engine that must comply with the emission standards specified in 40 CFR 60.4233(d) or (e) must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) and (2) of 40 CFR 60.4243. [40 CFR 60.4243(b)]
   i. Purchasing an engine certified according to procedures specified in 40 CFR 60 Subpart JJJJ, for the same model year and demonstrating compliance according to one of the methods specified in paragraph (a) of 40 CFR 60.4243. [40 CFR 60.4243(b)(1)]
   ii. Purchasing a non-certified engine and demonstrating compliance with the emission standards specified in 40 CFR 60.4233(d) or (e) and according to the requirements specified in 40 CFR 60.4244, as applicable, and according to paragraphs (b)(2)(i) and (ii) of 40 CFR 60.4243. [40 CFR 60.4243(b)(2)]

b. The permittee shall comply with the emission standards in 40 CFR 60.4231(c) for their stationary SI ICE. [40 CFR 60.4233(c)]

i. Stationary SI internal combustion engine manufacturers must certify their emergency stationary SI ICE greater than 25 HP and less than 130 HP that are rich burn engines that use LPG and that are manufactured on or after the applicable date in 40 CFR

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

60.4230(a)(4) to the Phase 1 emission standards in 40 CFR part 1054, appendix I, applicable to class II engines, and other requirements for new nonroad SI engines in 40 CFR part 1054. [40 CFR 60.4231(c)]

Compliance Demonstration Method:

a. If the permittee is the owner or operator of a stationary SI internal combustion engine that is manufactured after July 1, 2008, and must comply with the emission standards specified in 40 CFR 60.4233(a) through (c), the permittee must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4231(a) through (c), as applicable, for the same engine class and maximum engine power. In addition, the permittee must meet one of the requirements specified in (a)(1) and (2) of 40 CFR 60.4243. [40 CFR 60.4243(a)]
   i. If the permittee operates and maintains the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, the permittee must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if the permittee an owner or operator. The permittee must also meet the requirements as specified in 40 CFR part 1068, subparts A through D, as they apply. If the permittee adjusts engine settings according to and consistent with the manufacturer's instructions, the permittee's stationary SI internal combustion engine will not be considered out of compliance. [40 CFR 60.4243(a)(1)]
   ii. If the permittee does not operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, the permittee's engine will be considered a non-certified engine, and the permittee must demonstrate compliance according to (a)(2)(i) through (iii) of 40 CFR 60.4243, as appropriate [40 CFR 60.4243(a)(2)].

3. Testing Requirements:

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

4. Specific Monitoring Requirements:

a. The permittee must install a non-resettable hour meter upon startup of the emergency engine. [40 CFR 60.4237(c)]

b. The permittee shall monitor the hours of operation on a monthly basis. [401 KAR 52:040, Section 10]

c. The permittee shall monitor the 12-month rolling total VOC and HAP emissions monthly. [401 KAR 52:030, Section 10]

5. Specific Recordkeeping Requirements:

a. The permittee shall keep records of the information in paragraphs (a)(1) through (4) of 40 CFR 60.4245: [40 CFR 60.4245(a)]

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

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

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

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

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

b. The permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR 60.4245(b)]

c. At the end of each month, the permittee shall calculate VOC and HAP emissions according to Section D, and every month, a new 12-month rolling total for VOC and HAP emissions shall be calculated and recorded. [401 KAR 52:030, Section 10]

6. Specific Reporting Requirements:

The permittee shall report the source-wide monthly and 12-month rolling total VOC and HAPs emissions as part of the semiannual reporting as required in Section F (5) & (6). [401 KAR 52:030, Section 10]

SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:030, Section 6. Although these activities are designated as insignificant the permittee must comply with the applicable regulation. Process and emission control equipment at each insignificant activity subject to an opacity standard shall be inspected monthly and a qualitative visible emissions evaluation made. Results of the inspection, evaluation, and any corrective action shall be recorded in a log.

	Description	Generally Applicable Regulation
1.	Metal Photo Process	401 KAR 59:010 401 KAR 63:020
2.	221F Large Blasting/Sanding Booth	401 KAR 59:010
3.	Gasoline Storage Tank Capacity: 10,000 gallon	N/A
4.	EP18 Building 1 Generator 27 hp, Fuel: Propane	401 KAR 63:020
5.	Building 192-B Blast Cabinet	401 KAR 59:010
6.	EP53 Building 221-A Blast Cabinet	401 KAR 59:010
7.	3F Wire Marker Cabinets (Three)	401 KAR 59:010
8.	EP08 (39) 221F Paint Booth Propane Fired Direct Heat Exchanger	401 KAR 63:020
9.	3D Printer Stratasys Fortus 250mc SN# P17S19	N/A
10.	7 Degreasing Tanks, EP35	401 KAR 63:020
11.	Magnaflux Fluorescence Inspection Coating Operation. EP34 (70) 5 Dip Tanks: Penetrant, Emulsifier & Developer	N/A
12.	EP71 Building 415 Trane Indirect Fired NG Heat Exchangers: 3—0.250 MMBtu/hr Units 3—0.150 MMBtu/hr Units 1—0.120 MMBtu/hr Units	401 KAR 63:020
13.	EP72 Building 197 Direct Fired NG Space Heaters: 2—0.95 MMBtu/hr Units	401 KAR 63:020
14.	EP73Various Office Locations: Direct Fired NG Space Heaters: 5—0.095 MMBtu/hr Units	401 KAR 63:020

SECTION C - INSIGNIFICANT ACTIVITIES (CONTINUED)

15.	EP42 MIG and TIG Welding Operations	401 KAR 59:010 401 KAR 63:020
16.	EP44 Wash Rack Unit Oil Burner #1 0.42 MMBtu/hr No. 1 or No. 2 heating oil	401 KAR 63:020
17.	EP45 Wash Rack Unit Oil Burner #2 0.42 MMBtu/hr No. 1 or No. 2 heating oil	401 KAR 63:020
18.	3E Trinco 48X36 Blasting Cabinet (Steel Parts)	401 KAR 59:010
19.	Aerosol Brake Cleaner Usage and 1 Puncture Unit	401 KAR 63:020
20.	Fluorescent Bulb Crusher	401 KAR 59:010 401 KAR 63:020
21.	1000 Gallon Propane Tank	N/A
22.	EP49 (87) 3C Iridite Room Parts Cleaner	401 KAR 63:020
23.	Laser Engraving/Cutting on metal One unit in 3D Metal Photo Room and One unit in Building 221	401 KAR 59:010 401 KAR 63:020
24.	5000 Gallon Diesel Above Ground Storage Tank	N/A
25.	EP50 Building 190 Solvent Cleaning Parts Washer	N/A
26.	EnviroPak Model MPC40 Paint Can/ Drum Crusher	401 KAR 59:010 401 KAR 63:020
27.	Building 221 EnviroPak Waste Compactor	401 KAR 59:010 401 KAR 63:020
28.	EP51 Building 147 Solvent Cleaner	N/A
29.	Building 18M Woodworking Shop Dust Collector	401 KAR 59:010
30.	EP52 Building 221A Ultra Sonic Parts Washer	N/A
31.	EP54 Building 352 Blast Cabinet	401 KAR 59:010
32.	Building 352 Ultra Sonic Parts Washer (Non-VOC Solution Used)	N/A
33.	Building 341 Portable Generators	401 KAR 63:020
34.	Building 220 3D Printer	N/A
35.	Building 220 Ultra Sonic Parts Washer	N/A

SECTION C - INSIGNIFICANT ACTIVITIES (CONTINUED)

	(Non-VOC solution used)	
36.	Building 141 3D Printer	N/A
37.	NDI Lab Magnetic Particle Inspection Equipment	N/A
38.	NDI Lab 5 gallon Ultrasonic Cleaner	401 KAR 63:020
39.	NDI Lab 1 gallon Ultrasonic Cleaner	401 KAR 63:020
40.	Building 352 3D Printer	N/A
41.	EP55 E-Waste Shredder	401 KAR 59:010
42.	EP56 E-Waste Hammer Mill	401 KAR 59:010
43.	EP57 Cloth Shredder	401 KAR 59:010
44.	EP58 Flash Drive and Card Hammer Mill	401 KAR 59:010
45.	EP59 Hard Drive Hammer Mill	401 KAR 59:010
46.	EP61 Building 3C Type II Iridite Process Parts Washer	401 KAR 63:020
47.	EP62 Building 135 Modular Building Parts Resurfacing with HEPA Filter System	401 KAR 59:010 401 KAR 63:020
48.	4 Mobile Labs with 27 hp Diesel Generators (not for onsite use)	401 KAR 63:020
49.	EP66 Bldg. 17 Aerosol/Brush Touchup Painting	401 KAR 59:010 401 KAR 63:020
50.	EP67 Manual Degreasing Hanger Bays, Towels/Rags	N/A
51.	EP68 Manual Degreasing Hanger Bays, Aerosol Spray	N/A
52.	EP69 Bldg. 141 R&D Parts Washer	N/A
53.	EP70 Bldg. Mini Airbrush Touchup with fume extractor	401 KAR 59:010 401 KAR 63:020
54.	Chemical Laboratory Ductless Fume Hood	N/A
55.	Building 3C - 3D Systems ProX 3D Printer	N/A
56.	EP74 Bldg. 3C Guyson Model 4 Blast Cabinet w/ Dust Collector	401 KAR 59:010

SECTION C - INSIGNIFICANT ACTIVITIES (CONTINUED)

57.	Aluminum Alloy Parts Quench Bath	N/A
58.	Portable MQ Power Whisperwatt Generator	401 KAR 63:020
59.	Composite Shelf Insert Epoxy Potting and Sanding	401 KAR 59:010 401 KAR 63:020
60.	EP75 Gunsmith Wash Tank Omegasonics 5038i SN#AP-OMG5038NW-595	401 KAR 59:010
61.	EP76 Parts Washer Fountain Industries Clean Master CM200 SN# 15095804	N/A
62.	EP84 Building 135 Greymill Ultrasonic Cleaning System Model 2814	401 KAR 59:010
63.	EP85 Building 194 Greymill Ultrasonic Cleaning System Model 2814	401 KAR 59:010
64.	EP87 Building 221F Media Blasting Trinco Model 48x36/DP900-RPC	401 KAR 59:010
65.	EP88 Aluminum Blast Cabinet Integral Cartridge PM Control with 99.97% CE	401 KAR 59:010
66.	4 Downdraft Tables Integral Cartridge PM Control with 99.97% CE	401 KAR 59:010
67.	Building 3 & 5 Crate Assembly Dust Collectors PM Control with 95% CE	401 KAR 59:010

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.

2. VOC, HAPs, Chromium VI, 4-Chlorobenzotrifluoride (CAS# 98-56-6), and 1,6-Hexamethylene Diisocyanate (CAS# 822-06-0), Particulate Matter, and Opacity emissions, measured by applicable reference methods, or an equivalent or alternative method specified in 40 C.F.R. Chapter I, or by a test method specified in the state implementation plan shall not exceed the respective limitations specified herein.

   a. Source-wide emissions of VOC shall not exceed 90 tons during any consecutive 12-month period. [To preclude 401 KAR 52:020]

      Compliance Demonstration Method:

      $$\text{Monthly VOC Emissions} = \sum_{i=1}^{n} M_i \rho_i * (1 - \text{C.E.}/100)$$

      Where;

      ρ = weight percent of VOC in each solvent containing material less water and/or exempt solvent used during the month, (lbs/lb).
      i = individual solvent containing material (i.e. primer, enamel and thinner, etc.)
      n = total number of solvent containing materials used
      M = pounds of solvent containing material "i " used
      C.E. = control efficiency of the VOC control equipment (%)

      Source-wide VOC emissions = Σ [VOC emissions from spray coating operations] + Σ [VOC emissions from dip coating operations, degreasing, and solvent cleaning] + Σ [VOC emissions from natural gas combustion units] + Σ [VOC emissions from Insignificant Activities, if applicable]

   b. Source-wide emissions of any single HAP shall not exceed nine tons during any consecutive 12-month period, except for Chromium VI, 4-Chlorobenzotrifluoride (CAS# 98-56-6), and 1,6-Hexamethylene Diisocyanate (CAS# 822-06-0). [To preclude 401 KAR 52:020; 401 KAR 63:020]
      Source-wide emissions of Chromium VI shall not exceed 6.0 lbs per year.
      Source-wide emissions of 4-Chlorobenzotrifluoride shall not exceed 2.89 tons per year.
      Source-wide emissions of 1,6-Hexamethylene Diisocyanate shall not exceed 0.178 tons per year.

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

Compliance Demonstration Method:

$$\text{Monthly Coating Toxic/HAP}_{/j}\text{ Emissions} = \sum_{i=1}^{n} M_i \rho_i * (1 - T.E./100)(1 - C.E./100)$$

Where;

- ρ = weight percent of HAP_j in material "i", (lbs/lb).
- i = individual HAP containing material (i.e. primer, enamel and thinner, etc.)
- j = individual HAP emission (i.e. naphthalene, xylene, etc.)
- n = total number of solvent containing materials used containing single HAP_j
- M = pounds of solvent containing material "i" used
- T.E. = transfer efficiency of the application equipment (only use if HAP is particulate matter HAP, otherwise T.E. = 0) (%)
- C.E. = control efficiency of the PM/PM_{10} or VOC control equipment as applicable (%)

Source-wide HAP_j emissions = Σ [HAP_j emissions from spray coating activities] + Σ [HAP_j emissions from dip coating activities, degreasing, and solvent cleaning] + Σ [HAP_j emissions from welding, abrasive blasting, and sanding at the downdraft tables] + Σ [HAP_j emissions from Insignificant Activities, if applicable]

c. Source-wide emissions of Combined HAPs shall not exceed 22.5 tons during any consecutive 12-month period. [To preclude 401 KAR 52:020]

Compliance Demonstration Method:

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

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

d. Compliance with annual limits is based on a rolling 12-month total. Emissions shall be calculated on a monthly basis and shall be added to previous eleven months emissions to get the total actual emissions for each consecutive 12-month period.

SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

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

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. Pursuant to Section 1b-IV-1 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030 Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
   a. Date, place (as defined in this permit), and time of sampling or measurements;
   b. Analyses performance dates;
   c. Company or entity that performed analyses;
   d. Analytical techniques or methods used;
   e. Analyses results; and
   f. Operating conditions during time of sampling or measurement.

2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five (5) years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [401 KAR 52:030, Section 3(1)(f)1a, and Section 1a-7 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

3. In accordance with the requirements of 401 KAR 52:030, Section 3(1)f, the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
   a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
   b. To access and copy any records required by the permit;
   c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.

   Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.

4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

5. Summary reports of any monitoring required by this permit shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Sections 1b-V-1 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

6. The semi-annual reports are due by January 30th and July 30th of each year. All reports shall be certified by a responsible official pursuant to 401 KAR 52:030, Section 22. If continuous

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

emission and opacity monitors are required by regulation or this permit, data shall be reported in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All deviations from permit requirements shall be clearly identified in the reports.

7. In accordance with the provisions of 401 KAR 50:055, Section 1, the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
   a. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
   b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.

8. The permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken shall be submitted to the Regional Office listed on the front of this permit. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement does not identify a specific time frame for reporting deviations, prompt reporting, as required by Sections 1b-V, 3 and 4 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26 shall be defined as follows:
   a. For emissions of a hazardous air pollutant or a toxic air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
   b. For emissions of any regulated air pollutant, excluding those listed in F.8.a., that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
   c. All deviations from permit requirements, including those previously reported, shall be included in the semiannual report required by F.6.

9. Pursuant to 401 KAR 52:030, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit in accordance with the following requirements:
   a. Identification of each term or condition;
   b. Compliance status of each term or condition of the permit;
   c. Whether compliance was continuous or intermittent;
   d. The method used for determining the compliance status for the source, currently and over the reporting period.
   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

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

permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

f. The certification shall be submitted by January 30th of each year. Annual compliance certifications shall be sent to the Division for Air Quality, Frankfort Regional Office, 300 Sower Blvd. Frankfort, KY 40601.

10. In accordance with 401KAR 52:030, Section 3(1)(d), the permittee shall provide the Division with all information necessary to determine its subject emissions within 30 days of the date the Kentucky Emissions Inventory System (KYEIS) emissions survey is mailed to the permittee. If a KYEIS emissions survey is not mailed to the permittee, then the permittee shall comply with all other emissions reporting requirements in this permit.

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

SECTION G - GENERAL PROVISIONS

1. General Compliance Requirements

   a. The permittee shall comply with all conditions of this permit. A noncompliance shall be a violation of 401 KAR 52:030, Section 3(1)(b), and a violation of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act). Noncompliance with this permit is grounds for enforcement action including but not limited to the termination, revocation and reissuance, revision, or denial of a permit [Section 1a-2 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

   b. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a-5 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

   c. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:030, Section 18. The permit will be reopened for cause and revised accordingly under the following circumstances:
      (1) If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:030, Section 12;
      (2) The Cabinet or the United States Environmental Protection Agency (U. S. EPA) determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
      (3) The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

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

   d. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the conditions of this permit [Sections 1a- 6 and 7 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

   e. Emission units described in this permit shall demonstrate compliance with applicable requirements if requested by the Division [401 KAR 52:030, Section 3(1)(c)].

SECTION G - GENERAL PROVISIONS (CONTINUED)

f. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the permitting authority [401 KAR 52:030, Section 7(1)].

g. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a-11 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

h. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a-3 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

i. All emission limitations and standards contained in this permit shall be enforceable as a practical matter. All emission limitations and standards contained in this permit are enforceable by the U.S. EPA and citizens except for those specifically identified in this permit as state-origin requirements. [Section 1a-12 of the Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources incorporated by reference in 401 KAR 52:030, Section 26].

j. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a-9 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

k. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:030, Section 11(3)].

l. This permit does not convey property rights or exclusive privileges [Section 1a-8 of the *Cabinet Provisions and Procedures for Issuing Federally-Enforceable Permits for Non-Major Sources* incorporated by reference in 401 KAR 52:030, Section 26].

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

n. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry.

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.

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 52:030, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with:
(1) Applicable requirements that are included and specifically identified in this permit; and
(2) Non-applicable requirements expressly identified in this permit.

2. Permit Expiration and Reapplication Requirements

a. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six (6) months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:030, Section 12].

b. The authority to operate granted through this permit shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:030, Section 8(2)].

3. Permit Revisions

a. Minor permit revision procedures specified in 401 KAR 52:030, Section 14(3), may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the State Implementation Plan (SIP) or in applicable requirements and meet the relevant requirements of 401 KAR 52:030, Section 14(2).

b. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

SECTION G - GENERAL PROVISIONS (CONTINUED)

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

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the construction of the equipment described herein, emission unit EP05 and EP24 in accordance with the terms and conditions of this permit, F-25-016.

a. Construction of any process and/or air pollution control equipment authorized by this permit shall be conducted and completed only in compliance with the conditions of this permit.

b. Within thirty (30) days following commencement of construction and within fifteen (15) days following start-up and attainment of the maximum production rate specified in the permit application, or within fifteen (15) days following the issuance date of this permit, whichever is later, the permittee shall furnish to the Regional Office listed on the front of this permit in writing, notification of the following:
   (1) The date when construction commenced.
   (2) The date of start-up of the affected facilities listed in this permit.
   (3) The date when the maximum production rate specified in the permit application was achieved.

c. Pursuant to 401 KAR 52:030, Section 3(2), unless construction is commenced within eighteen (18) months after the permit is issued, or begins but is discontinued for a period of eighteen (18) months or is not completed within a reasonable timeframe then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon written request, the Cabinet may extend these time periods if the source shows good cause.

d. For those affected facilities for which construction is authorized by this permit, a source shall be allowed to construct with the draft permit. Pursuant to 401 KAR 50:055, Section 2(1)(a), an owner or operator of any affected facility subject to any standard within the administrative regulations of the Division for Air Quality shall demonstrate compliance with the applicable standard(s) within sixty (60) days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial start-up of such facility. Pursuant to 401 KAR 52:030, Section 3(3)(c), sources that have not demonstrated compliance within the timeframes prescribed in 401 KAR 50:055, Section 2(1)(a), shall operate the affected facility only for purposes of demonstrating compliance unless authorized under an approved compliance plan or an order of the cabinet.

e. This permit shall allow time for the initial start-up, operation, and compliance demonstration of the affected facilities listed herein. However, within sixty (60) days after achieving the maximum production rate at which the affected facilities will be operated but not later than 180 days after initial start-up of such facilities, the permittee shall conduct a performance demonstration on the affected facilities in accordance with 401 KAR 50:055, General compliance requirements. Testing must also be conducted in accordance with General Provisions G.5 of this permit.

SECTION G - GENERAL PROVISIONS (CONTINUED)

5. Testing Requirements

   a. Pursuant to 401 KAR 50:045, Section 2, a source required to conduct a performance test shall submit a completed Compliance Test Protocol form, DEP form 6028, or a test protocol a source has developed for submission to other regulatory agencies, in a format approved by the cabinet, to the Division's Frankfort Central Office a minimum of sixty (60) days prior to the scheduled test date. Pursuant to 401 KAR 50:045, Section 7, the Division shall be notified of the actual test date at least Thirty (30) days prior to the test.

   b. Pursuant to 401 KAR 50:045, Section 5, in order to demonstrate that a source is capable of complying with a standard at all times, any required performance test shall be conducted under normal conditions that are representative of the source's operations and create the highest rate of emissions. If [When] the maximum production rate represents a source's highest emissions rate and a performance test is conducted at less than the maximum production rate, a source shall be limited to a production rate of no greater than 110 percent of the average production rate during the performance tests. If and when the facility is capable of operation at the rate specified in the application, the source may retest to demonstrate compliance at the new production rate. The Division for Air Quality may waive these requirements on a case-by-case basis if the source demonstrates to the Division's satisfaction that the source is in compliance with all applicable requirements.

   c. Results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days or sooner if required by an applicable standard, after the completion of the fieldwork.

6. Acid Rain Program Requirements

   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.

7. Emergency Provisions

   a. Pursuant to 401 KAR 52:030, Section 23(1), an emergency shall constitute an affirmative defense to an action brought for noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or other relevant evidence that:
      (1) An emergency occurred and the permittee can identify the cause of the emergency;
      (2) The permitted facility was at the time being properly operated;
      (3) During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and,
      (4) The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two (2) working days of the time when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and the corrective actions taken.

SECTION G - GENERAL PROVISIONS (CONTINUED)

(5) Notification of the Division does not relieve the source of any other local, state or federal notification requirements.

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

c. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:030, Section 23(2)].

8. Ozone depleting substances

a. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
   (1) Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
   (2) Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
   (3) Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
   (4) Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166.
   (5) Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
   (6) Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

b. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, *Servicing of Motor Vehicle Air Conditioners*.

9. Risk Management Provisions

a. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to U.S. EPA using the RMP* eSubmit software.

b. If requested, submit additional relevant information to the Division or the U.S. EPA.

SECTION H - ALTERNATE OPERATING SCENARIOS

N/A

SECTION I - COMPLIANCE SCHEDULE

N/A