

**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: Meritor Heavy Braking Systems (U.S.A.), Inc.
Mailing Address: 115 Ogles Avenue
Franklin, Kentucky 42134

Source Name: Meritor Heavy Braking Systems (U.S.A.), Inc.
Mailing Address: 115 Ogles Avenue
Franklin, Kentucky 42134

Source Location: Same as Above

Permit ID: F-24-062
Agency Interest #: 3983
Activity ID: APE20240001
Review Type: Conditional Major, Operating
Source ID: 21-213-00015

Regional Office: Bowling Green Regional Office
2642 Russellville Road
Bowling Green, KY 42101
(270) 746-7475

County: Simpson

**Application
Complete Date:
Issuance Date:
Expiration Date:**

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

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Permit	Permit Type	Activity#	Complete Date	Issuance Date	Summary of Action
F-24-062	Renewal	APE20240001	11/21/2024		Renewal of Operating Permit

SECTION A - PERMIT AUTHORIZATION

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

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

Emission Group 1 – Foundry Operations

Emission Unit 04 (100) Scrap and Charge Handling

Description:

Handling and charging of scrap metal to the melt furnaces. Raw materials variable.

Construction Commenced: November 25, 1996

Maximum Throughput: 7.86 tons/hr

Controls: None

Emission Unit 05 (200) #1 Induction Furnace

Description:

Electric induction furnace with common baghouse shared with Emission Unit 06.

Construction Commenced: November 25, 1996

Maximum Throughput: 3.93 tons/hr

Controls: Baghouse

Emission Unit 06 (210) #2 Induction Furnace

Description:

Electric induction furnace with common baghouse shared with Emission Unit 05.

Construction Commenced: November 25, 1996

Maximum Throughput: 3.93 tons/hr

Controls: Baghouse

Emission Unit 07 (220) Transfer to Ladle

Description:

Transfer of molten metal from furnace to pouring ladle.

Construction Commenced: November 25, 1996

Maximum Throughput: 7.86 tons/hr

Controls: None

Emission Unit 09 (240) Pouring & Cooling

Description:

Casting and cooling of molten metal.

Construction Commenced: November 25, 1996

Maximum Throughput: 7.86 tons/hr

Controls: None

Emission Unit 12 (-) Shotblast

Description:

Shot blast includes a baghouse that vents inside the building.

Construction Commenced: November 25, 1996

Maximum Throughput: 9.9 tons/hr

Controls: Baghouse

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**Emission Unit 16 (-) Holding Pressure Pour Furnace****Emission Unit 17 (-) Backup Pressure Pour Furnace****Description:**

One primary and one backup electric pressure pour furnace with no associated control equipment.

Construction Commenced: 2003 (EU16) and 2005 (EU17)

Maximum Throughput: 7.86 tons/hr

Controls: None

APPLICABLE REGULATIONS:

401 KAR 59:010, *New process operations*

401 KAR 63:002, Section 2(4)(bbbb), **40 C.F.R. 63.10880 through 63.10906, Tables 1 through 4 (Subpart ZZZZZ)**, *National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources*

1. Operating Limitations:

- a. Only one pressure pour furnace (EU16 or EU17) may be operated at a time, except during periodic campaign swaps. [To preclude 401 KAR 52:020]

Compliance Demonstration Method:

The permittee shall maintain records of each campaign swap's start date, end date, and the active status of each pressure pour furnace (ramping up or ramping down) during each campaign swap for the duration of this permit. Additionally, the permittee shall monitor the non-campaigning furnace to ensure that it is not receiving any fuel or charge outside of the campaign swap window.

- b. The permittee shall operate and maintain control device(s) according to the manufacturer's specification at all times when the corresponding emission unit is in operation. [To preclude 401 KAR 52:020]

Compliance Demonstration Method:

Records shall be kept of all control device maintenance activities. Refer to **Section E**.

- c. The permittee shall comply with the pollution prevention management practices for metallic scrap and mercury switches in 40 CFR 63.10885. [40 CFR 63.10890(a)]
- d. *Metallic scrap management program.* For each segregated metallic scrap storage area, bin or pile, the permittee shall comply with the materials acquisition requirements in 40 CFR 63.10885(a)(1) or (2). The permittee shall keep a copy of the material specifications onsite and readily available to all personnel with material acquisition duties, and provide a copy to each of their scrap providers. The permittee may have certain scrap subject to 40 CFR 63.10885(a)(1) and other scrap subject to 40 CFR 63.10885(a)(2) at their facility provided the metallic scrap remains segregated until charge make-up. [40 CFR 63.10885(a)]
 - i. *Restricted metallic scrap.* The permittee shall prepare and operate at all times according to written material specifications for the purchase and use of only metal ingots, pig iron, slitter, or other materials that do not include post-consumer

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

- automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, chlorinated plastics, or free liquids. For the purpose of Subpart ZZZZZ, “free liquids” is defined as material that fails the paint filter test by EPA Method 9095B, “Paint Filter Liquids Test” (revision 2), November 2004 (incorporated by reference—see 40 CFR 63.14). The requirements for no free liquids do not apply if the permittee can demonstrate that the free liquid is water that resulted from scrap exposure to rain. Any post-consumer engine blocks, post-consumer oil filters, or oily turnings that are processed and/or cleaned to the extent practicable such that the materials do not include lead components, mercury switches, chlorinated plastics, or free organic liquids can be included in this certification. [40 CFR 63.10885(a)(1)]
- ii. *General iron and steel scrap.* The permittee shall prepare and operate at all times according to written material specifications for the purchase and use of only iron and steel scrap that has been depleted (to the extent practicable) of organics and HAP metals in the charge materials used by the iron and steel foundry. The materials specifications shall include at minimum the information specified in 40 CFR 63.10885(a)(2)(i) or (ii). [40 CFR 63.10885(a)(2)]
- 1) Except as provided in 40 CFR 63.10885(a)(2)(ii), specifications for metallic scrap materials charged to a scrap preheater or metal melting furnace to be depleted (to the extent practicable) of the presence of used oil filters, chlorinated plastic parts, accessible lead-containing components (such as batteries and wheel weights), and a program to ensure the scrap materials are drained of free liquids. [40 CFR 63.10885(a)(2)(i)]
 - 2) For scrap charged to a cupola metal melting furnace that is equipped with an afterburner, specifications for metallic scrap materials to be depleted (to the extent practicable) of the presence of chlorinated plastics, accessible lead-containing components (such as batteries and wheel weights), and a program to ensure the scrap materials are drained of free liquids. [40 CFR 63.10885(a)(2)(ii)]
- e. *Mercury requirements.* For scrap containing motor vehicle scrap, the permittee shall procure the scrap pursuant to one of the compliance options in 40 CFR 63.10885(b)(1), (2), or (3) for each scrap provider, contract, or shipment. For scrap that does not contain motor vehicle scrap, the permittee shall procure the scrap pursuant to the requirements of 40 CFR 63.10885(b)(4) for each scrap provider, contract, or shipment. The permittee may have one scrap provider, contract, or shipment subject to one compliance provision and others subject to another compliance provision. [40 CFR 63.10885(b)]
- i. *Site-specific plan for mercury switches.* The permittee shall comply with the requirements in 40 CFR 63.10885(a)(1)(i) through (v). [40 CFR 63.10885(b)(1)]
- 1) The permittee shall include a requirement in the scrap specifications for removal of mercury switches from vehicle bodies used to make the scrap. [40 CFR 63.10885(b)(1)(i)]
 - 2) The permittee shall prepare and operate according to a plan demonstrating how the facility will implement the scrap specification in 40 CFR 63.10885(b)(1)(i) for removal of mercury switches. The permittee shall submit the plan to the Administrator for approval. The permittee shall operate according to the plan as submitted during the review and approval process, operate according to the approved plan at all times after approval, and address any deficiency identified by

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

the Administrator or delegated authority within 60 days following disapproval of a plan. The permittee may request approval to revise the plan and may operate according to the revised plan unless and until the revision is disapproved by the Administrator or delegated authority. The Administrator or delegated authority may change the approval status of the plan upon 90-days written notice based upon the semiannual report or other information. The plan shall include: [40 CFR 63.10885(b)(1)(ii)]

- (A) A means of communicating to scrap purchasers and scrap providers the need to obtain or provide motor vehicle scrap from which mercury switches have been removed and the need to ensure the proper management of the mercury switches removed from the scrap as required under the rules implementing subtitle C of the Resource Conservation and Recovery Act (RCRA) (40 CFR parts 261 through 265 and 268). The plan shall include documentation of direction to appropriate staff to communicate to suppliers throughout the scrap supply chain the need to promote the removal of mercury switches from end-of-life vehicles. Upon the request of the Administrator or delegated authority, the permittee shall provide examples of materials that are used for outreach to suppliers, such as letters, contract language, policies for purchasing agents, and scrap inspection protocols; [40 CFR 63.10885(b)(1)(ii)(A)]
 - (B) Provisions for obtaining assurance from scrap providers motor vehicle scrap provided to the facility meet the scrap specification; [40 CFR 63.10885(b)(1)(ii)(B)]
 - (C) Provisions for periodic inspections or other means of corroboration to ensure that scrap providers and dismantlers are implementing appropriate steps to minimize the presence of mercury switches in motor vehicle scrap and that the mercury switches removed are being properly managed, including the minimum frequency such means of corroboration will be implemented; and [40 CFR 63.10885(b)(1)(ii)(C)]
 - (D) Provisions for taking corrective actions (i.e., actions resulting in scrap providers removing a higher percentage of mercury switches or other mercury-containing components) if needed, based on the results of procedures implemented in 40 CFR 63.10885(b)(1)(ii)(C). [40 CFR 63.10885(b)(1)(ii)(D)]
- 3) The permittee shall require each motor vehicle scrap provider to provide an estimate of the number of mercury switches removed from motor vehicle scrap sent to the facility during the previous year and the basis for the estimate. The Administrator may request documentation or additional information at any time. [40 CFR 63.10885(b)(1)(iii)]
- 4) The permittee shall establish a goal for each scrap supplier to remove at least 80 percent of the mercury switches. Although a site-specific plan approved under 40 CFR 63.10885(b)(1) may require only the removal of convenience light switch mechanisms, the Administrator will credit all documented and verifiable mercury-containing components removed from motor vehicle scrap (such as sensors in anti-locking brake systems, security systems, active ride control, and other applications) when evaluating progress towards the 80 percent goal. [40 CFR 63.10885(b)(1)(iv)]

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

- 5) For each scrap provider, the permittee shall submit semiannual progress reports to the Administrator that provide the number of mercury switches removed or the weight of mercury recovered from the switches, the estimated number of vehicles processed, an estimate of the percent of mercury switches removed, and certification that the removed mercury switches were recycled at RCRA-permitted facilities or otherwise properly managed pursuant to RCRA subtitle C regulations referenced in 40 CFR 63.10885(b)(1)(ii)(A). This information can be submitted in aggregate form and does not have to be submitted for each shipment. The Administrator may change the approval status of a site-specific plan following 90-days notice based on the progress reports or other information. [40 CFR 63.10885(b)(1)(v)]
 - ii. *Option for approved mercury programs.* The permittee shall certify in the notification of compliance status that they participate in and purchase motor vehicle scrap only from scrap providers who participate in a program for removal of mercury switches that has been approved by the Administrator based on the criteria in 40 CFR 63.10885(b)(2)(i) through (iii). If the permittee purchases motor vehicle scrap from a broker, they shall certify that all scrap received from that broker was obtained from other scrap providers who participate in a program for the removal of mercury switches that has been approved by the Administrator based on the criteria in 40 CFR 63.10885(b)(2)(i) through (iii). The National Mercury Switch Recovery Program and the State of Maine Mercury Switch Removal Program are EPA-approved programs under 40 CFR 63.10885(b)(2) unless and until the Administrator disapproves the program (in part or in whole) under 40 CFR 63.10885(b)(2)(iii). [40 CFR 63.10885(b)(2)]
 - 1) The program includes outreach that informs the dismantlers of the need for removal of mercury switches and provides training and guidance for removing mercury switches; [40 CFR 63.10885(b)(2)(i)]
 - 2) The program has a goal to remove at least 80 percent of mercury switches from motor vehicle scrap the scrap provider processes. Although a program approved under 40 CFR 63.10885(b)(2) may require only the removal of convenience light switch mechanisms, the Administrator will credit all documented and verifiable mercury-containing components removed from motor vehicle scrap (such as sensors in anti-locking brake systems, security systems, active ride control, and other applications) when evaluating progress towards the 80 percent goal; and [40 CFR 63.10885(b)(2)(ii)]
 - 3) The program sponsor agrees to submit progress reports to the Administrator no less frequently than once every year that provide the number of mercury switches removed or the weight of mercury recovered from the switches, the estimated number of vehicles processed, an estimate of the percent of mercury switches recovered, and certification that the recovered mercury switches were recycled at facilities with permits as required under the rules implementing subtitle C of RCRA (40 CFR parts 261 through 265 and 268). The progress reports shall be based on a database that includes data for each program participant; however, data may be aggregated at the State level for progress reports that will be publicly available. The Administrator may change the approval status of a program or portion of a program (e.g., at the State level) following 90-days notice based on the progress reports or on other information. [40 CFR 63.10885(b)(2)(iii)]

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

- 4) The permittee shall develop and maintain onsite a plan demonstrating the manner through which the facility is participating in the EPA-approved program. [40 CFR 63.10885(b)(2)(iv)]
 - (A) The plan shall include facility-specific implementation elements, corporate-wide policies, and/or efforts coordinated by a trade association as appropriate for each facility. [40 CFR 63.10885(b)(2)(iv)(A)]
 - (B) The permittee shall provide in the plan documentation of direction to appropriate staff to communicate to suppliers throughout the scrap supply chain the need to promote the removal of mercury switches from end-of-life vehicles. Upon the request of the Administrator or delegated authority, the permittee shall provide examples of materials that are used for outreach to suppliers, such as letters, contract language, policies for purchasing agents, and scrap inspection protocols. [40 CFR 63.10885(b)(2)(iv)(B)]
 - (C) The permittee shall conduct periodic inspections or other means of corroboration to ensure that scrap providers are aware of the need for and are implementing appropriate steps to minimize the presence of mercury in scrap from end-of-life vehicles. [40 CFR 63.10885(b)(2)(iv)(C)]
- iii. *Option for specialty metal scrap.* The permittee shall certify in the notification of compliance status and maintain records of documentation that the only materials from motor vehicles in the scrap are materials recovered for their specialty alloy (including, but not limited to, chromium, nickel, molybdenum, or other alloys) content (such as certain exhaust systems) and, based on the nature of the scrap and purchase specifications, that the type of scrap is not reasonably expected to contain mercury switches. [40 CFR 63.10885(b)(3)]
- iv. *Scrap that does not contain motor vehicle scrap.* For scrap not subject to the requirements in 40 CFR 63.10885(b)(1) through (3), the permittee shall certify in the notification of compliance status and maintain records of documentation that this scrap does not contain motor vehicle scrap. [40 CFR 63.10885(b)(4)]

Compliance Demonstration Method:

Refer to **5. Specific Recordkeeping Requirements** (e) through (f) and **6. Specific Reporting Requirements** (b) through (d).

- f. Following the initial determination for an existing affected source as a small foundry, if the annual metal melt production exceeds 20,000 tons during the preceding year, the permittee shall comply with the requirements for large foundries by the applicable dates in 40 CFR 63.10881(d)(1)(i) or (d)(1)(ii). [40 CFR 63.10890(h)]

Compliance Demonstration Method:

The permittee shall monitor and record total process weight for foundry operations on a monthly and 12-month rolling basis. Refer to Subsection **6. Specific Reporting Requirements** (d).

- g. At all times, the permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.10890(i)]

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

- h. The permittee shall comply with the following requirements of the General Provisions in 40 CFR part 63, subpart A: 63.1 through 63.5; 63.6(a), (b), (c); 63.9; 63.10(a), (b)(1), (b)(2)(xiv), (b)(3), (d)(1), (d)(4), and (f); and 63.13 through 63.16. Requirements of the General Provisions not cited in the preceding sentence do not apply to the owner or operator of a new or existing affected source that is classified as a small foundry. [40 CFR 63.10890(j)]

2. Emission Limitations:

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

Compliance Demonstration Method:

Refer to **4. Specific Monitoring Requirements** (a) and **5. Specific Recordkeeping Requirements** (b).

- b. For emissions from a control device or stack the permittee shall not cause, suffer, allow or permit the emission into the open air of particulate matter from any affected facility which is in excess of the quantity specified in 401 KAR 59:010, Appendix A: [401 KAR 59:010, Section 3(2)]
- i. For process weights ≤ 0.5 tons/hour: 2.34 lbs/hr
 - ii. For process weights ≤ 30 tons/hour: $E = 3.59P^{0.62}$

Where:

E = rate of emission in lb/hr; and

P = process weight rate in tons/hr.

Compliance Demonstration Method:

- 1) For EU12, the source is assumed to be in compliance when the fabric filter is operating and maintained according to manufacturer recommendations.
- 2) For all EUs except EU12, to demonstrate compliance with the particulate matter emission limitations specified in 401 KAR 59:010, the permittee shall monitor the amounts and types of process weight added to each emission unit. The process weight rate shall be determined by using the tons of material added to each emissions unit in a calendar month divided by the total hours the unit operated that month. The average particulate emissions shall be calculated as follows:

$$PE = \left(\frac{PW \times EF^*}{H} \right) \times (1 - CE)$$

Where:

PE = particulate emissions in lb/hr;

PW = process weight in tons/month;

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

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

H = total hours of operation in a month; and

CE = Control efficiency

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

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

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, calibrate, maintain and operate according to manufacturer's specification, monitoring devices (differential pressure gauges or manometers) to determine the pressure drop across each of the baghouses once a day during the operation of the associated units. [401 KAR 52:030, Section 10]
- c. The permittee shall monitor the monthly hours of operation and monthly process weights of each of the emission points listed above. [401 KAR 52:030, Section 10]
- d. The permittee shall calculate HAP, PM, and PM₁₀ emissions on a monthly basis. [401 KAR 52:030, Section 10]
- e. Refer to **Section F** for general monitoring requirements.

5. Specific Recordkeeping Requirements:

- a. For each emission unit listed above, the permittee shall maintain records of the following: [401 KAR 52:030, Section 10]
 - i. Monthly hours of operation.
 - ii. Total monthly process weight rate in tons.
 - iii. Hourly PM and PM₁₀ emissions, calculated monthly, in lbs/hour.
 - iv. Monthly and 12-month rolling totals of PM, PM₁₀, and individual and combined HAP emissions in tons.
 - v. MSDSs for all materials used in each process and their HAP content.
- b. A log of the qualitative visual observations made as specified in **4. Monitoring Requirements** 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]
- c. The permittee shall maintain records of the daily pressure drop readings at the baghouses. [401 KAR 52:030, Section 10]
- d. The permittee shall maintain records of all control device maintenance activities. [401 KAR 52:030, Section 10]

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

- e. As required by 40 CFR 63.10(b)(1), the permittee shall maintain files of all information (including all reports and notifications) for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. Any records required to be maintained by 40 CFR part 63 that are submitted electronically via the EPA's Compliance and Emissions Data Reporting Interface (CEDRI) may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request to the Division or the EPA as part of an on-site compliance evaluation. [40 CFR 63.10890(d)]
- f. The permittee shall maintain records of the information specified in 40 CFR 63.10890(e)(1) through (7) according to the requirements in 40 CFR 63.10(b)(1). [40 CFR 63.10890(e)]
 - i. Records supporting the initial notification of applicability and the notification of compliance status according to 40 CFR 63.10(b)(2)(xiv). [40 CFR 63.10890(e)(1)]
 - ii. Records of the written materials specifications according to 40 CFR 63.10885(a) and records that demonstrate compliance with the requirements for restricted metallic scrap in 40 CFR 63.10885(a)(1) and/or for the use of general scrap in 40 CFR 63.10885(a)(2) and for mercury in 40 CFR 63.10885(b)(1) through (3), as applicable. The permittee shall keep records documenting compliance with 40 CFR 63.10885(b)(4) for scrap that does not contain motor vehicle scrap. [40 CFR 63.10890(e)(2)]
 - iii. If the permittee is subject to the requirements for a site-specific plan for mercury switch removal under 40 CFR 63.10885(b)(1), the permittee shall maintain records of the number of mercury switches removed or the weight of mercury recovered from the switches and properly managed, the estimated number of vehicles processed, and an estimate of the percent of mercury switches recovered. [40 CFR 63.10890(e)(3)]
 - iv. If the permittee is subject to the option for approved mercury programs under 40 CFR 63.10885(b)(2), the permittee shall maintain records identifying each scrap provider and documenting the scrap provider's participation in an approved mercury switch removal program. If the permittee purchases motor vehicle scrap from a broker, the permittee shall maintain records identifying each broker and documentation that all scrap provided by the broker was obtained from other scrap providers who participate in an approved mercury switch removal program. [40 CFR 63.10890(e)(4)]
 - v. Records of metal melt production for each calendar year. [40 CFR 63.10890(e)(7)]
- g. Refer to **Section F** for general recordkeeping requirements.

6. Specific Reporting Requirements:

- a. The permittee shall include in each semi-annual report the monthly and 12-month rolling total VOC, PM, PM₁₀, individual, and combined HAP emissions in tons per year. [401 KAR 52:030, Section 10]

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

- b. The permittee shall submit a notification of compliance status according to 40 CFR 63.9(h)(1)(i). The permittee shall send the notification of compliance status before the close of business on the 30th day after the applicable compliance date specified in 40 CFR 63.10881. The notification shall include the following compliance certifications, as applicable: [40 CFR 63.10890(c)]
 - i. “This facility has prepared, and will operate by, written material specifications for metallic scrap according to 40 CFR 63.10885(a)(1)” and/or “This facility has prepared, and will operate by, written material specifications for general iron and steel scrap according to 40 CFR 63.10885(a)(2).” [40 CFR 63.10890(c)(1)]
 - ii. “This facility has prepared, and will operate by, written material specifications for the removal of mercury switches and a site-specific plan implementing the material specifications according to 40 CFR 63.10885(b)(1) and/or “This facility participates in and purchases motor vehicle scrap only from scrap providers who participate in a program for removal of mercury switches that has been approved by the Administrator according to 40 CFR 63.10885(b)(2) and has prepared a plan for participation in the EPA-approved program according to 40 CFR 63.10885(b)(2)(iv)” and/or “The only materials from motor vehicles in the scrap charged to a metal melting furnace at this facility are materials recovered for their specialty alloy content in accordance with 40 CFR 63.10885(b)(3) which are not reasonably expected to contain mercury switches” and/or “This facility complies with the requirements for scrap that does not contain motor vehicle scrap in accordance with 40 CFR 63.10885(b)(4).” [40 CFR 63.10890(c)(2)]
- c. The permittee shall submit semiannual compliance reports to the Administrator according to the requirements in 40 CFR 63.10899(c), (f), and (g), except that 40 CFR 63.10899(c)(5) and (7) do not apply. [40 CFR 63.10890(f)]
- d. The permittee shall submit a written notification to the Administrator of the initial classification of their facility as a small foundry as required in 40 CFR 63.10880(f) and (g), as applicable, and for any subsequent reclassification as required in 40 CFR 63.10881(d)(1) or (e), as applicable. [40 CFR 63.10890(g)]
- e. Refer to **Section F** for general reporting requirements.

7. Specific Control Equipment Operating Conditions:

- a. The facility shall operate and maintain all control device equipment for each emission unit according to the manufacturer’s recommendations and during all times that the associated emission unit is operating. [401 KAR 52:030, Section 10]
- b. Refer to **Section E**.

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

Emission Unit 13 (530) Paint Spray Booth

Description:

One paint booth capable of operating with various paints. The paint gun is a Kremlin HVLP spray gun. The paint booth has a panel filter control for particulate only.

Construction Commenced: September 8, 1997

Maximum Throughput: 6.1 gal/hr

Controls: Panel filter

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 permittee shall operate and maintain control device(s) according to the manufacturer's specification at all times when the corresponding emission unit is in operation. [To preclude 401 KAR 52:020]

Compliance Demonstration Method:

Refer to **7. Specific Control and Equipment Operating Conditions** (b).

2. Emission Limitations:

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

Compliance Demonstration Method:

Refer to **4. Specific Monitoring Requirements** (a) and **5. Specific Recordkeeping Requirements** (b).

- b. For emissions from a control device or stack the permittee shall not cause, suffer, allow or permit the emission into the open air of particulate matter from any affected facility which is in excess of 2.34 lbs/hr. [401 KAR 59:010, Section 3(2)]

Compliance Demonstration Method:

The source is assumed to be in compliance when the panel filters are installed and properly maintained.

- c. The permittee shall not allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. [401 KAR 63:020, Section 3]

Compliance Demonstration Method:

The Cabinet determines that the source is in compliance with 401 KAR 63:020 based on the rate of emissions of airborne toxics determined by using information provided in the

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

application and any supplemental information submitted by the source, as well as operation of associated control devices.

3. Testing Requirements:

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

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 the monthly hours of operation and monthly process weight rate of the paint spray booth (EU13). [401 KAR 52:030, Section 10]
- c. The permittee shall calculate HAP, PM, PM₁₀, and VOC emissions on a monthly basis. [401 KAR 52:030, Section 10]
- d. Refer to **Section F** for general monitoring requirements.

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of the following: [401 KAR 52:030, Section 10]
 - i. Monthly hours of operation.
 - ii. Total monthly process weight rate in tons.
 - iii. Hourly particulate emissions, calculated monthly, in lbs/hr.
 - iv. Monthly and 12-month rolling totals of PM, PM₁₀, VOC, and individual and combined HAP emissions in tons.
 - v. MSDSs for all materials used in each process and their VOC and HAP content.
- b. A log of the qualitative visual observations made as specified in **4. Monitoring Requirements** 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]
- c. The permittee shall maintain records of all control device maintenance activities. [401 KAR 52:030, Section 10]
- d. Refer to **Section F** for general recordkeeping requirements.

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

6. Specific Reporting Requirements:

- a. The permittee shall include in each semi-annual report the monthly and 12-month rolling total VOC, PM, PM₁₀, individual, and combined HAP emissions in tons per year. [401 KAR 52:030, Section 10]
- b. Refer to **Section F** for general reporting requirements.

7. Specific Control Equipment Operating Conditions:

- a. The facility shall operate and maintain all control device equipment for the paint spray booth according to the manufacturer's recommendations and during all times that the paint spray booth is operating. [401 KAR 52:030, Section 10]
- b. Pre-filters shall be changed each shift of production and pleated filters shall be changed weekly. [401 KAR 52:030, Section 10]
- c. Refer to **Section E**.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**Emission Unit 22 Emergency Generator****Description:**

Generac Model SG150 spark ignition emergency generator. This generator is a 4-stroke, rich-burn engine with a displacement of less than 30 liters per cylinder.
Construction Commenced: May, 2021.
Maximum Rating: 232 HP
Fuel: Natural gas
Controls: None

APPLICABLE REGULATIONS:

401 KAR 60:005, Section 2(2)(eee), 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*

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 meet the requirements for 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart JJJJ. No further requirements apply for such engines under 40 CFR 63, Subpart ZZZZ. [40 CFR 63.6590(c)(1)]
- b. The permittee shall operate and maintain the stationary SI ICE that achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. [40 CFR 60.4234]
- c. If the emergency stationary SI internal combustion engine does not meet the standards applicable to non-emergency engines, the owner or operator must install a non-resettable hour meter. [40 CFR 60.4237(b)]
- d. The permittee shall operate the emergency stationary ICE according to the requirements in 40 CFR 60.4243(d)(1) through (3). 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 40 CFR 60.4243(d)(1) through (3), is prohibited. If the permittee does not operate the engine according to the requirements in 40 CFR 60.4243(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 40 CFR 60.4243(d)(2)(i) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR 60.4243(d)(3) counts as part of the 100 hours per calendar year allowed by 40 CFR 60.4243(d)(2). [40 CFR 60.4243(d)(2)]

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

- 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 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 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 40 CFR 60.4243(d)(2). Except as provided in 40 CFR 60.4243(d)(3)(i), 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)]
 - 1) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all conditions in 40 CFR 60.4243(d)(3)(i)(A) through (E) are met. [40 CFR 60.4243(d)(3)(i)]

Compliance Demonstration Method:

To ensure compliance with the requirements above, the permittee shall monitor and maintain records of the hours of operation and purpose of operation. See **4. Specific Monitoring Requirements** and **5. Specific Recordkeeping Requirements**.

2. Emission Limitations:

- a. The permittee shall comply with the emission standards in Table 1 to 40 CFR Part 60, Subpart JJJJ, for the emergency stationary SI ICE. [40 CFR 60.4233(e)]

Maximum Engine Power	Emission Standards g/HP-hr (ppmvd at 15% O ₂)		
	NO _x	CO	VOC
HP≥130	2.0 (160)	4.0 (540)	1.0 (86)

Compliance Demonstration Method:

The permittee shall demonstrate compliance according to one of the methods specified in 40 CFR 63.4243(b)(1) and (2). [40 CFR 60.4243(b)]

- A. 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 40 CFR 60.4243(a). [40 CFR 60.4243(b)(1)]
- B. 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. 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

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

the manufacturer's instructions, the stationary SI internal combustion engine will not be considered out of compliance. [40 CFR 60.4243(a)(1)]

b. Refer to **Section D**.

3. Testing Requirements:

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

4. Specific Monitoring Requirements:

- a. The permittee shall monitor monthly hours of operation and the purpose of operation each time that the engine is in use. [401 KAR 52:030, Section 10]
- b. The permittee shall monitor the amount of fuel consumed by the engine on a monthly basis. [401 KAR 52:030, Section 10]
- c. Refer to **Section F** for general monitoring requirements.

5. Specific Recordkeeping Requirements:

- a. The permittee shall maintain records of the monthly hours of operation and the purpose of operation each time that the engine is in use. [401 KAR 52:030, Section 10]
- b. The permittee shall maintain records of the total amount of fuel consumed by the engine on a monthly basis. [401 KAR 52:030, Section 10]
- c. The permittee shall maintain records of the manufacturer's written operating instructions and any procedures developed by the permittee that are approved by the engine manufacturer, over the entire life of the engine. [401 KAR 52:030, Section 10]
- d. The permittee shall keep records of the information in 40 CFR 63.4245(a)(1) through (4). [40 CFR 60.4245(a)]
 - i. All notifications submitted to comply with 40 CFR 60, Subpart JJJJ and all documentation supporting any notification. [40 CFR 60.4245(a)(1)]
 - 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)]
- e. Any records required to be maintained by 40 CFR 60, Subpart JJJJ that are submitted electronically via the EPA's CEDRI may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make

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

records, data, and reports available upon request to the Division or the EPA as part of an on-site compliance evaluation. [40 CFR 60.4245(j)]

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

6. Specific Reporting Requirements:

- a. For any emergency stationary SI ICE that operates for the purpose specified in 40 CFR 60.4243(d)(3)(i), the permittee must submit an annual report according to the requirements in 40 CFR 60.4245(e)(1) through (3). [40 CFR 60.4245(e)]
- i. The report must contain the following information: [40 CFR 60.4245(e)(1)]
- 1) Company name and address where the engine is located. [40 CFR 60.4245(e)(1)(i)]
 - 2) Date of the report and beginning and ending dates of the reporting period. [40 CFR 60.4245(e)(1)(ii)]
 - 3) Engine site rating and model year. [40 CFR 60.4245(e)(1)(iii)]
 - 4) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place. [40 CFR 60.4245(e)(1)(iv)]
 - 5) Hours spent for operation for the purpose specified in 40 CFR 60.4243(d)(3)(i), including the date, start time, and end time for engine operation for the purpose specified in 40 CFR 60.4243(d)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine. [40 CFR 60.4245(e)(1)(vii)]
- ii. The annual reports for each calendar year must be submitted no later than March 31 of the following calendar year. [40 CFR 60.4245(e)(2)]
- iii. The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>). However, if the reporting form specific to 40 CFR 60, Subpart JJJJ is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in 40 CFR 60.4. Beginning on February 26, 2025, submit annual reports electronically according to 40 CFR 60.4245(g). [40 CFR 60.4245(e)(3)]
- b. The permittee must submit notifications or reports to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>). The EPA will make all the information submitted through CEDRI available to the public without further notice to the permittee. Do not use CEDRI to submit information the permittee claims as CBI. Although the EPA does not expect persons to assert a claim of CBI, if the permittee wishes to assert a CBI claim for some of the information in the report or notification, the permittee must submit a complete file in the format specified in 40 CFR 60, Subpart JJJJ, including information claimed to be CBI, to the EPA following the procedures in 40 CFR 60.4245(g)(1) and (2). Clearly mark the part or all of the information that the permittee claims to be CBI. Information not marked as CBI may be authorized for public release without prior notice. Information marked as CBI will not be disclosed except in accordance with procedures set forth in 40 CFR part 2. All CBI claims must be asserted at the time of submission. Anything submitted using CEDRI cannot later be claimed CBI.

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

Furthermore, under CAA section 114(c), emissions data is not entitled to confidential treatment, and the EPA is required to make emissions data available to the public. Thus, emissions data will not be protected as CBI and will be made publicly available. The permittee must submit the same file submitted to the CBI office with the CBI omitted to the EPA via the EPA's CDX as described earlier in this paragraph 40 CFR 60.4245(g). [40 CFR 60.4245(g)]

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

SECTION C - INSIGNIFICANT ACTIVITIES

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

<u>Description</u>	<u>Generally Applicable Regulation</u>
1. Borax Rinse Tank Heat Exchanger – 0.475 MMBtu/hr (EU02)	401 KAR 59:010 401 KAR 63:020
2. Wash and Rinse Tanks Heat Exchanger – 0.95 MMBtu/hr (EU03)	401 KAR 59:010 401 KAR 63:020
3. Drying Oven, Natural Gas – 0.95 MMBtu/hr (EU10)	401 KAR 59:010 401 KAR 63:020
4. Wet Machining (EU11)	401 KAR 59:010
5. Roads – Paved (EU14)	401 KAR 63:010
6. Drum Washer (EU15)	401 KAR 59:010
7. Air Make-Up Units, Natural Gas – One 2.5 MMBtu/hr, two 6.3 MMBtu/hr (EU20)	401 KAR 59:010 401 KAR 63:020
8. A.O. Smith Natural Gas Boiler – 0.225 MMBtu/hr (EU21)	401 KAR 59:010 401 KAR 63:020
9. Automated Drum Turning Unit (EU22)	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. PM, PM₁₀, NO_x, CO, VOC, Opacity, and HAP emissions, measured by applicable reference methods, or an equivalent or alternative method specified in 40 C.F.R. Chapter I, or by a test method specified in the state implementation plan shall not exceed the respective limitations specified herein.
3. Source wide PM, PM₁₀, and VOC emissions shall not exceed 90 tons per year, each, on a rolling 12-month basis. [To preclude 401 KAR 52:020]

Compliance Demonstration Method:

The permittee shall use the following formulas to calculate emissions of PM, PM₁₀, and VOC each month:

$$E_{(PM,PM_{10},VOC)} = \sum_{i=1}^n PR_i \times EF^*_i \times \left(\frac{1 - CE_i}{2000}\right)$$

Where:

$E_{(PM,PM_{10},VOC)}$ = total monthly pollutant emissions, tons/month;

i = each emission point from which PM, PM₁₀, or VOC is emitted;

n = total number of emission points from which PM, PM₁₀, or VOC is emitted;

PR_i = process weight rate used at emission point i , tons/month;

EF_i = emission factor for pollutant of interest at emission point i , lb/ton; and

CE_i = control efficiency for controls, if any, used at emission point i .

* Emission factor to be determined from AP-42, KYEIS, testing, MSDS, or another Division approved method.

The total monthly emission rate (tons/month) as calculated above shall be used to demonstrate compliance with the rolling 12-month total limit by using the following equation:

$$T_{(PM,PM_{10},VOC)} = \sum_{x=1}^{12} (E_{(PM,PM_{10},VOC)})_x$$

Where:

$T_{(PM,PM_{10},VOC)}$ = total 12-month rolling pollutant emissions, tons/year; and

x = month.

4. Source wide HAP emissions shall not exceed 9.0 tons per year for any single HAP or 22.5 tons per year of combined HAPs on a rolling 12-month basis. [To preclude 401 KAR 52:020]

Compliance Demonstration Method:

The permittee shall use the following formulas to calculate emissions for any single HAP each month:

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

$$E_{(Single\ HAP)} = \sum_{i=1}^n PR_i \times EF^*_i \times \left(\frac{1 - CE_i}{2000}\right)$$

Where:

$E_{(Single\ HAP)}$ = total monthly pollutant emissions, tons/month;

i = each emission point from which pollutant of interest is emitted;

n = total number of emission points from which pollutant of interest is emitted;

PR_i = process weight rate used at emission point i , tons/month;

EF_i = emission factor for pollutant of interest at emission point i , lbs/ton; and

CE_i = control efficiency for controls, if any, used at emission point i .

* Emission factor to be determined from determined from AP-42, KYEIS, testing, MSDS, or another Division approved method.

The total monthly emission rate (tons/month) as calculated above shall be used to show compliance with the rolling 12-month total limit by using the following equation:

$$(HAPi)_{total} = \sum_{x=1}^{12} (E_{(Single\ HAP)})_x < 9.0 \left(\frac{tons}{year}\right)$$

Where:

HAPi = total individual HAP emissions, tons/year; and

x = month.

The total 12-month rolling emission rate (tons/year) for individual HAPs as calculated above shall be used to show compliance with the rolling 12-month total limit for combined HAPs by using the following equation:

$$(HAPc)_{total} = \sum_{y=1}^z ((HAPi)_{total})_y < 22.5 \left(\frac{tons}{year}\right)$$

Where:

HAPc = total combined HAP emissions, tons/year;

y = individual HAP emission as measured above; and

z = total number of individual HAPs.

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].

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

6. The semi-annual reports are due by January 30th and July 30th of each year. All reports shall be certified by a responsible official pursuant to 401 KAR 52:030, Section 22. If continuous emission and opacity monitors are required by regulation or this permit, data shall be reported in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All deviations from permit requirements shall be clearly identified in the reports.
7. In accordance with the provisions of 401 KAR 50:055, Section 1, the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
 - a. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
 - b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.
8. The permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken shall be submitted to the Regional Office listed on the front of this permit. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement does not identify a specific time frame for reporting deviations, prompt reporting, as required by Sections 1b-V, 3 and 4 of the *Cabinet Provisions and Procedures for Issuing 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 shall 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 shall 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.

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

- e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.
 - f. The certification shall be submitted by January 30th of each year. Annual compliance certifications shall be sent to the Division for Air Quality, Bowling Green Regional Office, 2642 Russellville Road, Bowling Green, KY 42104.
10. In accordance with 401 KAR 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 PROVISIONS1. 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 shall be revised or revoked to assure compliance with the applicable requirements;
 - (3) The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.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.

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

No construction authorized by this permit (F-24-062).

SECTION G - GENERAL PROVISIONS (CONTINUED)5. Testing Requirements

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

6. Acid Rain Program Requirements

- a. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

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

SECTION G - GENERAL PROVISIONS (CONTINUED)

actions taken.

(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