



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

04/02/03

CERTIFIED MAIL

**RE: Preliminary Proposed Title V
Chapter 3745-77 permit**

15-76-00-0073
Canton Drop Forge
Keith J Houseknecht
P.O. Box 6902
Canton, OH 44706-0902

Dear Keith J Houseknecht:

Enclosed is the Ohio EPA Preliminary Proposed Title V permit that was issued in draft form on 03/30/01. The comment period for the Draft permit has ended. We are now ready to submit this permit to USEPA for approval.

We are submitting this for your review and comment. If you do not agree with the Preliminary Proposed Title V permit as written, you now have the opportunity to raise your concerns. **Please submit, in writing, any comments you may have within fourteen (14) days from your receipt of this letter to:**

Ohio Environmental Protection Agency
Jim Orlemann, Manager, Engineering Section
Division of Air Pollution Control
P.O.Box 1049
Columbus, OH 43216-1049

and

Canton Division of Air Pollution Control
420 Market Avnue N.
Canton, OH 44702-1544
(330) 489-3385

Also, if you believe that it is necessary to have an informal conference with us, then, as part of your written comments, you should request a conference concerning the written comments.

If comments are not submitted within fourteen (14) days of your receipt of this letter, we will forward the proposed permit to USEPA for approval. All comments received will be carefully considered before proceeding to the proposed permit.

Very truly yours,


Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: Canton Division of Air Pollution Control
File, DAPC PMU



State of Ohio Environmental Protection Agency

PRELIMINARY PROPOSED TITLE V PERMIT

Issue Date: 04/02/03

Effective Date: To be entered upon final issuance

Expiration Date: To be entered upon final issuance

This document constitutes issuance of a Title V permit for Facility ID: 15-76-00-0073 to:
Canton Drop Forge
4575 Southway Street S.W.
Canton, OH 44706-1995

Emissions Unit ID (Company ID)/Emissions Unit Activity Description

Table with 3 columns: Emissions Unit ID (Company ID), Emissions Unit Activity Description, and Emissions Unit Activity Description. Rows include units like B001 (Boiler No. 1), P016 (Box Furnace FB11), and Z002 (Die Washing).

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above.

application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Canton Division of Air Pollution Control
420 Market Avenue N.
Canton, OH 44702-1544
(330) 489-3385

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. *State and Federally Enforceable Section*

1. **Monitoring and Related Record Keeping and Reporting Requirements**

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))
- c. The permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))
 - ii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) with respect to emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**
 - (a) Written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations ; (ii) the probable cause of such deviations; and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Part III of this Title V permit, the written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year, and shall cover the previous calendar quarters. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. These written reports shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(i) and (ii)

pertaining to the submission of monitoring reports every six months and the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations. See B.6 below if no deviations occurred during the quarter.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i), (ii) and (iii))

- (b) Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the deviation reporting requirements for this Title V permit, written reports that identify each malfunction that occurred during each calendar quarter shall be submitted, at a minimum, quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year, and shall cover the previous calendar quarters.

In identifying each deviation caused by a malfunction, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Also, if a deviation caused by a malfunction is identified in a written report submitted pursuant to paragraph (a) above, a separate report is not required for that malfunction pursuant to this paragraph. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing, at a minimum, on a quarterly basis.

Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation, operational restriction, and control device operating parameter limitation shall be reported in the same manner as described above for malfunctions. These written reports for malfunctions (and scheduled maintenance projects, if appropriate) shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(iii))

iii. **For monitoring, record keeping, and reporting requirements:**

Written reports that identify any deviations from the federally enforceable monitoring, record keeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year, for the previous six calendar months. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, record keeping, and reporting requirements. If no deviations occurred during a six-month

period, the permittee shall submit a semi-annual report which states that no deviations occurred during that period.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii))

- iv. Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."

(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions unit(s) or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iii))

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

(Authority for term: OAC rule 3745-77-07(A)(4))

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

(Authority for term: OAC rule 3745-77-07(A)(5))

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

(Authority for term: OAC rule 3745-77-07(A)(6))

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.10 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

(Authority for term: OAC rule 3745-77-07(A)(7))

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

(Authority for term: OAC rule 3745-77-07(A)(8))

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

(Authority for term: OAC rule 3745-77-07(A)(9))

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

(Authority for term: OAC rule 3745-77-07(A)(10))

10. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after

- promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
 - c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
 - d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.
(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

11. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.
(Authority for term: OAC rule 3745-77-07(B))

12. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

- iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:
 - i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
 - ii. Compliance certifications shall include the following:
 - (a) An identification of each term or condition of this permit that is the basis of the certification.
 - (b) The permittee's current compliance status.
 - (c) Whether compliance was continuous or intermittent.
 - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
 - iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))

13. Permit Shield

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

(Authority for term: OAC rule 3745-77-07(F))

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

15. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

(Authority for term: OAC rule 3745-77-07(G))

16. Off-Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.
- b. The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.
- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For purposes of clarification, the permittee can refer to Engineering Guide #63 that is available in the STARSHIP software package.)

(Authority for term: OAC rule 3745-77-07(I))

17. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

(This term is provided for informational purposes only.)

18. Insignificant Activities

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.

(Authority for term: OAC rule 3745-77-07(A)(1))

19. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-07(A)(1))

20. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

(Authority for term: OAC rule 3745-77-07(A)(1))

B. State Only Enforceable Section

1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this

permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

2. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

3. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

4. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

5. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

6. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

1. This facility is subject to the applicable requirements specified in OAC Chapter 3745-25. In accordance with Ohio EPA Engineering Guide #64, the emission control action programs, as specified in OAC rule 3745-25-03, shall be developed and submitted within 60 days after receiving notification from the Ohio EPA.
2. The permittee shall demonstrate compliance with the sulfur dioxide (SO₂) National Ambient Air Quality Standard (NAAQS) based on the combined SO₂ emissions from all fuel burning emissions units, as permitted herein, using air dispersion modeling. If attainment with the SO₂ NAAQS cannot be demonstrated, then the permittee may propose an SO₂ emission strategy, which includes, but is not limited to, emission limitations and/or operating restrictions for the use of fuel oil in these emissions units that will sufficiently restrict SO₂ emissions for the purpose of complying with the SO₂ NAAQS. The emission strategy shall be confirmed by air dispersion modeling. The written strategy shall be submitted to the Canton City Health Department, Air Pollution Control Division and Ohio EPA, Central Office for approval along with all support documentation including the basis for the strategy, the emission limitations and/or operating restrictions and the model input information and results. All air dispersion modeling will be conducted using the approved USEPA air dispersion models under a protocol currently approved by the Ohio EPA.

B. State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

F001 - roadways and parking lots;
P025 - Heat Treat Furnace OF07;
P043 - Heat Treat Furnace OF10;
Z001 - Heat Treat Furnace OF11;
Z003 - coal handling;
Z004 - ash handling;
Z005 - lime silo;
Z006 - Tank No. 6;
Z007 - Tank No. 7;
Z008 - Tank No. 8;
Z009 - Tank No. 9;
Z010 - oil quenching;
Z011 - die polishing;
Z012 - Parts Washer No. 1;
Z013 - Parts Washer No. 2;
Z014 - Hammer Location A;
Z015 - Hammer Location B;
Z016 - Hammer Location C;
Z017 - Hammer Location D;
Z018 - Hammer Location E;
Z019 - Hammer Location F;
Z020 - Hammer Location G;
Z021 - Hammer Location H;
Z022 - Hammer Location I;
Z023 - Hammer Location J;
Z024 - Hammer Location K;
Z025 - Hammer Location L;
Z026 - Hammer Location M; and
Z027 - Tank No. 18.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a permit to install for the emissions unit.

2. The permittee shall maintain monthly records of the amount (in gallons) of cylinder oil employed in emissions units Z014 through Z026.

B. State Only Enforceable Section (continued)

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the process steam exhaust stack serving emissions units Z014 through Z026. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

4. The permittee shall submit quarterly written reports that identify the following:
- a. the amount (in gallons) of cylinder oil employed in emissions units Z014 through Z026 during each calendar month;
 - b. an identification of all days during which any visible particulate emissions were observed from the stack serving emissions units Z014 through Z026; and
 - c. a description of any corrective actions taken to minimize or eliminate the visible particulate emissions.

The reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the previous 3-month period.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler No. 1 (B001)

Activity Description: B&W Sterling Class 131 No. 24 coal fired spreader stoker, maximum heat input 86 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
B&W Sterling Class 131 No. 24 coal-fired spreader stoker boiler, maximum heat input of 86 mmBtu/hr, controlled by a venturi wet scrubber (OP01) with a limestone injection system to control sulfur dioxide emissions - Boiler No. 1	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-10(C)(1)	0.150 pound of particulate emissions per mmBtu of actual heat input
	40 CFR Part 52.1881(b)(27)(ii)	2.50 pounds of sulfur dioxide (SO ₂) per mmBtu actual heat input

2. Additional Terms and Conditions

- 2.a The total heat input for emissions unit B001 is restricted from 86 mmBtu/hr to 54 mmBtu/hr. (The restricted total heat input of 54 mmBtu/hr corresponds to a steam mass flow rate of 37,000 pounds of steam per hour as measured during the November 30, 2002 emission tests.)

II. Operational Restrictions

1. The quality of the coal burned in this emissions unit shall meet the following specifications, on a dry basis:
 - a. the coal shall have an ash content of less than 16%;
 - b. the coal shall have a sulfur content which is sufficient to comply with the allowable SO₂ emission limitation of 2.50 pounds of SO₂ per mmBtu of actual heat input; and
 - c. the coal shall have a heat content of no less than 11,000 Btu per pound of coal.

II. Operational Restrictions (continued)

2. The permittee shall operate the venturi wet scrubber in accordance with the following parameters:
 - a. the pressure drop range across the scrubber shall be continuously maintained at a value of not less than 8 inches of water, at all times while the emissions unit is in operation;
 - b. the fresh water nozzle flow rate shall be continuously maintained at a value of not less than 35 gallons per minute, at all times while the emissions unit is in operation; and
 - c. the scrubber water supply pressure shall be continuously maintained at a value of not less than 38 pounds per square inch guage (psig), at all times while the emissions unit is in operation.

The permittee may petition the Canton City Health Department, Air Pollution Control Division (CCHD, APCD) to reestablish the above operating parameters provided the permittee can demonstrate to the satisfaction of the CCHD, APCD that the operating conditions upon which the parameters were previously established are no longer applicable.

3. At no time shall the steam flow rate from emissions unit B001 exceed 37,000 pounds of steam per hour or the rate confirmed by the permittee as specified in section A.V.1.d (as an average over any one-hour period).

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect or require the coal supplier to collect a representative sample of coal for each shipment of coal which is received for burning in this emissions unit. At the end of each month, the representative samples of coal for all shipments of coal which were received during that month shall be combined into one composite sample. The permittee shall perform, or require the supplier to perform, the coal sampling and analyze the composite coal sample for ash content (percent by weight), sulfur content (percent by weight), and heat content (Btu/pound of coal) in accordance with either 40 CFR Part 60, Appendix A, Method 19 or the proper ASTM methods. Alternative, equivalent methods may be used upon written approval from the CCHD, APCD.
2. The permittee shall maintain monthly records of the following information:
 - a. total amount (in tons) of coal received;
 - b. the results of the analyses for sulfur content (in percent, by weight), heat content (in Btu/pound of coal), and ash content (in percent, by weight); and
 - c. the calculated, controlled SO₂ emission rate (in pound(s)/mmBtu) based upon a volume-weighted average of the calculated SO₂ emission rates for all shipments of coal during a calendar month and the SO₂ reduction (control) efficiency measured and recorded from the most recent emission tests, performed in accordance with the methods and procedures specified in section A.V, that demonstrated compliance with the SO₂ emission limitation specified in section A.I.
3. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the scrubber, the scrubber fresh water nozzle flow rate, and the scrubber water supply pressure while the emissions unit is in operation. The monitoring devices shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day while the emissions unit is in operation:

- a. the pressure drop across the scrubber, in inches of water, on a twice per shift basis;
- b. the scrubber fresh water nozzle flow rate, in gallons per minute, on a twice per shift basis;
- c. the scrubber water supply pressure, in psig, on a twice per shift basis; and
- d. the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

All readings shall be taken at the beginning and end of each shift.

III. Monitoring and/or Record Keeping Requirements (continued)

4. The permittee shall perform monthly visible particulate emissions checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit during the following operations:
 - a. when "fire cleaning" (i.e., removing the ash from the grate) is performed;
 - b. within 60 minutes of startup of the emissions unit; and
 - c. after the actual heat input to the emissions unit is increased from a steady state condition and/or 30 minutes after the actual heat input to the emissions unit is increased from a banked condition

The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall perform visible emissions observations in accordance with 40 CFR Part 60, Appendix A, Method 9 for a minimum of 30 minutes. The permittee shall also document any corrective actions taken to minimize or eliminate the visible particulate emissions in the operations log.

5. The permittee shall operate and maintain a continuous steam flow rate monitoring device and recorder which measures and records the steam flow rate from this emissions unit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The steam flow rate monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with manufacturer's recommendations, with any modifications deemed necessary by the permittee. The permittee shall maintain all records describing any maintenance conducted on the steam flow rate monitoring and recording devices.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the coal ash content limitation specified in section A.II.1;
 - b. all exceedances of the coal heat content limitation specified in section A.II.1;
 - c. all exceedances of the SO₂ emission limitation specified in section A.I.1;
 - d. all periods of time during which the pressure drop across the scrubber was not maintained at or above the level specified in section A.II.2;
 - e. all periods of time during which the scrubber fresh water nozzle flow rate was not maintained at or above the level specified in section A.II.2;
 - f. all periods of time during which the scrubber water supply pressure was not maintained at or above the level specified in section A.II.2; and
 - g. all periods of time when the emissions unit was in operation and the steam flow rate was not maintained at or below the level specified in section A.II.3.

The quarterly deviation (excursion) reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.ii.

2. The permittee shall submit semiannual written reports that (a) identify all times during which any visible particulate emissions were observed from the stack serving this emissions unit, (b) provide copies of any Method 9 observations performed when visible particulate emissions were observed, and (c) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

Compliance shall be demonstrated through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
 - 1.b Emission Limitation:

0.150 pound of particulate emissions per mmBtu of actual heat input

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing required pursuant to section A.V.2.
 - 1.c Emission Limitation:

2.50 pounds of SO₂ per mmBtu actual heat input

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated based upon the records required pursuant to section A.III and the emission testing required pursuant to section A.V.
2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 6 months after issuance of this permit and within 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable visible particulate emission limitation, the particulate mass emission limitation, and the SO₂ mass emission limitation.
 - c. The following parameters also shall be monitored and recorded, on a 15-minute basis, during the emission testing: the pressure drop across the scrubber, the scrubber fresh water nozzle flow rate, and the scrubber water supply pressure.
 - d. The following test methods shall be employed to demonstrate compliance with the allowable emission limitations:
 - i. for the visible particulate emission limitations, Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(1);
 - ii. for the particulate mass emission limitation, Methods 1 through 5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(9); and
 - iii. for the SO₂ mass emission limitation, Methods 1 through 4 and 6 of 40 CFR Part 60, Appendix A.
 - e. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the CCHD, APCD.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CCHD, APCD. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the CCHD, APCD's refusal to accept the results of the emission test(s).

Personnel from the CCHD, APCD shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the CCHD, APCD within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the CCHD, APCD.

VI. Miscellaneous Requirements

1. Within 60 days of issuance of the final Title V permit, the permittee shall develop and submit to the CCHD, APCD a preventive maintenance plan for this emissions unit and its associated control equipment that will allow this emissions unit to achieve and maintain compliance with the applicable rules and the terms and conditions of this permit.

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
B&W Sterling Class 131 No. 24 coal-fired spreader stoker boiler, maximum heat input of 86 mmBtu/hr, controlled by a venturi wet scrubber (OP01) with a limestone injection system to control sulfur dioxide emissions - Boiler No. 1	OAC rule 3745-18-82(B)(1)	5.0 pounds of SO ₂ per mmBtu actual heat input See B.II.1 below.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall limit the operation of this emissions unit such that the average operating rates are not exceeded for any calendar day as follows: first quarter, 49 mmBtu/hr; second quarter, 49 mmBtu/hr; third quarter, 49 mmBtu/hr; and fourth quarter, 49 mmBtu/hr.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the average operating rate for each calendar day for this emissions unit. (The monthly volume-weighted heat content for the coal, from Section A.III.2, may be used to back calculate the daily average operating rate.)

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the average daily operating rate restriction for this emissions unit.

The deviation (excursion) reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.ii.

2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitation in section B.I of these terms and conditions shall be determined in accordance with the following method:

1.a Emission Limitation:

5.0 pounds of SO₂ per mmBtu of actual heat input

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated based upon the records required pursuant to section A.III and the emission testing required pursuant to section A.V.

Facility Name: **Canton Drop Forge**
Facility ID: **15-76-00-0073**
Emissions Unit: **Boiler No. 1 (B001)**

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler No. 2 (B002)

Activity Description: B&W Sterling Class 131 No. 24 natural gas and No. 6 fuel oil fired boiler, maximum heat input 88 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
B&W Sterling Class 131 No. 24 natural gas and No. 6 oil-fired boiler, maximum heat input of 88 mmBtu per hour - Boiler No. 2	OAC rule 3745-17-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-10(C)(1)	0.150 pound of particulate emissions per mmBtu actual heat input
	40 CFR Part 52.1881(b)(27)(ii)	2.50 pounds of sulfur dioxide (SO ₂) per mmBtu actual heat input

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The permittee shall burn only natural gas and No. 6 fuel oil in this emissions unit.
- The quality of the oil burned in this emissions unit shall have a combination of heat and sulfur content which is sufficient to comply with the allowable SO₂ emission limitation.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content, heat content, and density of the oil, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).

The permittee shall perform or require the supplier to perform the analyses for sulfur content, heat content and density of the oil in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods. Alternative, equivalent methods may be used upon written approval from the Canton City Health Department, Air Pollution Control Division (CCHD, APCD).

3. For each day during which the permittee burns a fuel other than natural gas and/or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days when this emissions unit was burning No. 6 fuel oil and any visible particulate emissions were observed from any stacks serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the CCHD, APCD) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall notify the Director (the CCHD, APCD) in writing of any record which shows a deviation of the allowable SO₂ emission limitation based upon the calculated sulfur dioxide emission rates from section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the CCHD, APCD) within 45 days after the deviation occurs.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
4. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

Compliance shall be demonstrated through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

0.150 pound of particulate emissions per mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be demonstrated based upon emission testing requirements specified in section A.V.2.

1.c Emission Limitation:

2.50 pounds of SO₂ per mmBtu actual heat input

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated based upon the records required pursuant to section A.III and the emission testing required pursuant to section A.V.

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 30 days after No. 6 fuel oil is burned in this emissions unit.

b. The emission testing shall be conducted to demonstrate compliance with the allowable visible particulate emission limitations, the particulate mass emission limitation, and the SO₂ mass emission limitation.

c. The following test methods shall be employed to demonstrate compliance with the allowable emission limitations:

i. for the visible particulate emission limitations, Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(1);

ii. for the particulate mass emission limitation, Methods 1 through 5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(9); and

iii. for the SO₂ mass emission limitation, Methods 1 through 4 and 6 of 40 CFR Part 60, Appendix A.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the CCHD, APCD.

e. The tests shall be performed with the emissions unit burning No. 6 fuel oil.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CCHD, APCD. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the CCHD, APCD's refusal to accept the results of the emission test(s).

Personnel from the CCHD, APCD shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the CCHD, APCD within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the CCHD, APCD.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
B&W Sterling Class 131 No. 24 natural gas and No. 6 oil-fired boiler, maximum heat input of 88 mmBtu per hour - Boiler No. 2	OAC rule 3745-18-82(B)(2)	1.6 pounds of SO ₂ per mmBtu actual heat input See B.II.1 below.

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The permittee shall limit the operation of emissions units B002 and B003 such that the combined average operating rates are not exceeded for any calendar day as follows: first quarter, 98 mmBtu per hour; second quarter, 8 mmBtu per hour; third quarter, 8 mmBtu per hour; and fourth quarter, 8 mmBtu per hour.

Only the heat input(s) from the burning of No. 6 fuel oil shall be used in determining the daily combined average operating rates for emissions units B002 and B003. If only natural gas is burned, there is no restriction on the heat inputs.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall maintain records of the combined average operating rates for each calendar day when emissions unit(s) B002 and/or B003 is (are) in operation and burning No. 6 fuel oil. (The heat content for the No. 6 fuel oil, from Section A.III, may be used to back calculate the daily combined average operating rates.)

IV. Reporting Requirements

- The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the combined average daily operating rate restrictions for emissions units B002 and B003.

The deviation (excursion) reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.ii.

- The permittee shall notify the Director (the CCHD, APCD) in writing of any record which shows a deviation of the allowable SO₂ emission limitation specified in section B.I based upon the calculated sulfur dioxide emission rates from section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the CCHD, APCD) within 45 days after the deviation occurs.
- All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

- Compliance with the emission limitation in section B.I of these terms and conditions shall be determined in accordance with the following method:

Facility Name: **Canton Drop Forge**

Facility ID: **15-76-00-0073**

Emissions Unit: **Boiler No. 2 (B002)**

V. Testing Requirements (continued)

1.a Emission Limitation:

1.6 pounds of SO₂ per mmBtu actual heat input

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated based upon the records required pursuant to section A.III and the emission testing required pursuant to section A.V.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler No. 3 (B003)

Activity Description: B&W Sterling Class 131 No. 24 natural gas and No. 6 fuel oil fired boiler, maximum heat input 88 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
B&W Sterling Class 131 No. 24 natural gas and No. 6 oil-fired boiler, maximum heat input of 88 mmBtu per hour - Boiler No. 3	OAC rule 3745-17-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-10(C)(1)	0.150 pound of particulate emissions per mmBtu actual heat input
	40 CFR Part 52.1881(b)(27)(ii)	2.50 pounds of sulfur dioxide (SO ₂) per mmBtu actual heat input

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The permittee shall burn only natural gas and No. 6 fuel oil in this emissions unit.
- The quality of the oil burned in this emissions unit shall have a combination of heat and sulfur content which is sufficient to comply with the allowable SO₂ emission limitation.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content, heat content, and density of the oil, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).

The permittee shall perform or require the supplier to perform the analyses for sulfur content, heat content and density of the oil in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods. Alternative, equivalent methods may be used upon written approval from the Canton City Health Department, Air Pollution Control Division (CCHD, APCD).

3. For each day during which the permittee burns a fuel other than natural gas and/or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days when this emissions unit was burning No. 6 fuel oil and any visible particulate emissions were observed from any stacks serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the CCHD, APCD) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall notify the Director (the CCHD, APCD) in writing of any record which shows a deviation of the allowable SO₂ emission limitation based upon the calculated sulfur dioxide emission rates from section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the CCHD, APCD) within 45 days after the deviation occurs.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
4. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

Compliance shall be demonstrated through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

0.150 pound of particulate emissions per mmBtu actual heat input

Applicable Compliance Method:

Compliance shall be demonstrated based upon emission testing requirements specified in section A.V.2.

1.c Emission Limitation:

2.50 pounds of SO₂ per mmBtu actual heat input

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated based upon the records required pursuant to section A.III and the emission testing required pursuant to section A.V.

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 30 days after No. 6 fuel oil is burned in this emissions unit.

b. The emission testing shall be conducted to demonstrate compliance with the allowable visible particulate emission limitations, the particulate mass emission limitation, and the SO₂ mass emission limitation.

c. The following test methods shall be employed to demonstrate compliance with the allowable emission limitations:

i. for the visible particulate emission limitations, Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(1);

ii. for the particulate mass emission limitation, Methods 1 through 5 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(9); and

iii. for the SO₂ mass emission limitation, Methods 1 through 4 and 6 of 40 CFR Part 60, Appendix A.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the CCHD, APCD.

e. The tests shall be performed with the emissions unit burning No. 6 fuel oil.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CCHD, APCD. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the CCHD, APCD's refusal to accept the results of the emission test(s).

Personnel from the CCHD, APCD shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the CCHD, APCD within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the CCHD, APCD.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
B&W Sterling Class 131 No. 24 natural gas and No. 6 oil-fired boiler, maximum heat input of 88 mmBtu per hour - Boiler No. 3	OAC rule 3745-18-82(B)(2)	1.6 pounds of SO ₂ per mmBtu actual heat input See B.II.1 below.

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The permittee shall limit the operation of emissions units B002 and B003 such that the combined average operating rates are not exceeded for any calendar day as follows: first quarter, 98 mmBtu per hour; second quarter, 8 mmBtu per hour; third quarter, 8 mmBtu per hour; and fourth quarter, 8 mmBtu per hour.

Only the heat input(s) from the burning of No. 6 fuel oil shall be used in determining the daily combined average operating rates for emissions units B002 and B003. If only natural gas is burned, there is no restriction on the heat inputs.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall maintain records of the combined average operating rates for each calendar day when emissions unit(s) B002 and/or B003 is (are) in operation and burning No. 6 fuel oil. (The heat content for the No. 6 fuel oil, from Section A.III, may be used to back calculate the daily combined average operating rates.)

IV. Reporting Requirements

- The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the combined average daily operating rate restrictions for emissions units B002 and B003.

The deviation (excursion) reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c.ii.

- The permittee shall notify the Director (the CCHD, APCD) in writing of any record which shows a deviation of the allowable SO₂ emission limitation specified in section B.I based upon the calculated sulfur dioxide emission rates from section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the CCHD, APCD) within 45 days after the deviation occurs.
- All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

- Compliance with the emission limitation in section B.I of these terms and conditions shall be determined in accordance with the following method:

Facility Name: **Canton Drop Forge**

Facility ID: **15-76-00-0073**

Emissions Unit: **Boiler No. 3 (B003)**

V. Testing Requirements (continued)

1.a Emission Limitation:

1.6 pounds of SO₂ per mmBtu actual heat input

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated based upon the records required pursuant to section A.III and the emission testing required pursuant to section A.V.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Rotary Furnace FR01 (P001)

Activity Description: 17 ft. natural gas and No. 6 fuel oil fired Hagan rotary furnace, maximum heat input 21.56 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
17-foot, natural gas and No. 6 fuel oil-fired Hagan rotary furnace, maximum heat input 21.56 mmBtu per hour - Furnace FR01	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

 * The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 54.2 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 54.2 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=1.75% for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (143.7 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Rotary Furnace FR02 (P002)

Activity Description: 17 ft. natural gas and No. 6 fuel oil fired Hagan rotary furnace, maximum heat input 21.56 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
17-foot, natural gas and No. 6 fuel oil-fired Hagan rotary furnace, maximum heat input 21.56 mmBtu per hour - Furnace FR02	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 54.2 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 54.2 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=1.75% for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (143.7 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Rotary Furnace FR03 (P003)

Activity Description: 17 ft. natural gas and No. 6 fuel oil fired Hagan rotary furnace, maximum heat input 21.88 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
17-foot, natural gas and No. 6 fuel oil-fired Hagan rotary furnace, maximum heat input 21.88 mmBtu per hour - Furnace FR03	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

 * The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 54.2 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 54.2 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=1.75% for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (145.9 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Rotary Furnace FR04 (P004)

Activity Description: 17 ft. natural gas and No. 6 fuel oil fired Hagan rotary furnace, maximum heat input 21.88 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
17-foot, natural gas and No. 6 fuel oil-fired Hagan rotary furnace, maximum heat input 21.88 mmBtu per hour - Furnace FR04	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 54.2 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 54.2 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=1.75% for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (145.9 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Rotary Furnace FR05 (P005)

Activity Description: 17 ft. natural gas and No. 6 fuel oil fired Hagan rotary furnace, maximum heat input 21.56 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
17-foot, natural gas and No. 6 fuel oil-fired Hagan rotary furnace, maximum heat input 21.56 mmBtu per hour - Furnace FR05	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 54.2 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 54.2 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=1.75% for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (143.7 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Rotary Furnace FR06 (P006)

Activity Description: 17 ft. natural gas and No. 6 fuel oil fired Hagan rotary furnace, maximum heat input 21.56 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
17-foot, natural gas and No. 6 fuel oil-fired Hagan rotary furnace, maximum heat input 21.56 mmBtu per hour - Furnace FR06	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

 * The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 54.2 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 54.2 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=1.75% for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (143.7 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Rotary Furnace FR07 (P007)

Activity Description: 14 ft. natural gas and No. 6 fuel oil fired Hagan rotary furnace, maximum heat input 15.84 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
17-foot, natural gas and No. 6 fuel oil-fired Hagan rotary furnace, maximum heat input 15.84 mmBtu per hour - Furnace FR07	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 41.8 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 41.8 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=1.75% for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (105.6 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Rotary Furnace FR10 (P009)

Activity Description: 17 ft. natural gas and No. 6 fuel oil fired Hagan rotary furnace, maximum heat input 21.56 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
17-foot, natural gas and No. 6 fuel oil-fired Hagan rotary furnace, maximum heat input 21.56 mmBtu per hour - Furnace FR10	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 54.2 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 54.2 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=1.75% for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (143.7 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Rotary Furnace FR09 (P010)

Activity Description: 14 ft. natural gas and No. 6 fuel oil fired Hagan rotary furnace, maximum heat input 14.62 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
17-foot, natural gas and No. 6 fuel oil-fired Hagan rotary furnace, maximum heat input 14.62 mmBtu per hour - Furnace FR09	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 41.8 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 41.8 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=1.75% for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (97.5 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Box Furnace FB11 (P016)

Activity Description: Natural gas and No. 6 fuel oil fired Canton Drop Forge box furnace, maximum heat input 3.88 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas and No. 6 oil-fired Canton Drop Forge box furnace, with a maximum heat input of 3.88 mmBtu per hour - Furnace FB11	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 15.0 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 15.0 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=1.75% for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (25.9 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Box Furnace FB08 (P017)

Activity Description: Natural gas and No. 6 fuel oil fired Canton Drop Forge box furnace, maximum heat input 4.39 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas and No. 6 oil-fired Canton Drop Forge box furnace, with a maximum heat input of 4.39 mmBtu per hour - Furnace FB08	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

 * The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 14.2 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 14.2 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=1.75% for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (29.3 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Box Furnace FB12 (P019)

Activity Description: Natural gas and No. 6 fuel oil fired Canton Drop Forge box furnace, maximum heat input 3.96 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas and No. 6 oil-fired Canton Drop Forge box furnace, with a maximum heat input of 3.96 mmBtu per hour - Furnace FB12	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

 * The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 14.2 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 14.2 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=1.75% for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (26.4 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Box Furnace FB05 (P020)

Activity Description: Natural gas and No. 6 fuel oil fired Canton Drop Forge box furnace, maximum heat input 3.88 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas and No. 6 oil-fired Canton Drop Forge box furnace, with a maximum heat input of 3.88 mmBtu per hour - Furnace FB05	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 16.5 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 16.5 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=1.75% for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (25.9 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Box Furnace FB21 (P021)

Activity Description: Natural gas and No. 6 fuel oil fired Canton Drop Forge box furnace, maximum heat input 7.76 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas and No. 6 oil-fired Canton Drop Forge box furnace, with a maximum heat input of 7.76 mmBtu per hour - Furnace FB21	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 20.0 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 20.0 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=1.75% for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (51.7 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Heat Treat Furnace OF02 (P023)

Activity Description: Natural gas fired Hagan pusher type annealing furnace, Model Y6815, maximum heat input 18 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas-fired Hagan pusher type annealing furnace, Model Y6815, with a maximum heat input of 18 mmBtu per hour - Furnace OF02	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factor of 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 37.4 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 37.4 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

Compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Heat Treat Furnace OF05 (P024)

Activity Description: Natural gas fired Hagan pusher type annealing furnace, Model Y6816, maximum heat input 18 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas-fired Hagan pusher type annealing furnace, Model Y6816, with a maximum heat input of 18 mmBtu per hour - Furnace OF05	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factor of 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 31.8 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 31.8 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

Compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Heat Treat Furnace OF06 (P026)

Activity Description: Natural gas fired Hagan pusher type quench and draw furnace, Model Y6819, maximum heat input 16 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas-fired Hagan pusher type annealing furnace, Model Y6819, with a maximum heat input of 16 mmBtu per hour - Furnace OF06	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factor of 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 31.3 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 31.3 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

Compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Heat Treat Furnace OF08 (P027)

Activity Description: Natural gas fired Hagan pusher type quench and draw furnace, Model Y6818, maximum heat input 10 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas-fired Hagan pusher type annealing furnace, Model Y6818, with a maximum heat input of 10 mmBtu per hour - Furnace OF08	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factor of 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 20.7 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 20.7 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

Compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Shot Blaster OB07 (P029)
Activity Description: 48X48 Wheelabrator Tumbblast shot cleaner

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
48X48 Wheelabrator Tumbblast shot cleaner with a maximum process weight rate of 2 tons per hour controlled by a baghouse (SB1) - Shot Blaster OB07	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B), Figure II	22.7 pounds per hour of particulate emissions, as a combined limitation for emissions units P029, P030, P032, and P036 See A.I.2.a below.

2. Additional Terms and Conditions

- 2.a Emissions units P029, P030, P032, and P036 are similar emissions units; therefore, the total uncontrolled mass rate of emissions (UMRE) from all of the units shall be used to determine the combined allowable emission limitation from Figure II of OAC rule 3745-17-11. The UMRE was calculated using an emission factor found in a document entitled "An Inventory of Iron Foundry Emissions" by Bernard S. Gutow, dated January, 1972. The document provided an emission factor for shot blasting operations of 15.5 pounds of particulates per ton of metal (uncontrolled). Multiplying this factor by the maximum process weight rate for each emissions unit gives a total UMRE of 294.5 pounds per hour of particulates. Using Figure II, the combined allowable emission rate is determined from curve P1 and the equation: $A = 0.5782(U)^{0.6456}$, where "U" is the UMRE.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 8 inches of water, while the emissions unit is in operation.

The permittee may petition the Canton City Health Department, Air Pollution Control Division (CCHD, APCD) to reestablish the pressure drop range provided the permittee can demonstrate to the satisfaction of the CCHD, APCD that the operating conditions upon which the pressure drop range was previously established are no longer applicable.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

The permittee shall submit the deviation (excursion) reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.ii.

2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

22.7 pounds per hour of particulate emissions, as a combined limitation for emissions units P029, P030, P032, and P036

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

The tests shall be conducted while emissions units P029 and P030 are operating at or near their maximum capacities, unless otherwise specified or approved by the CCHD, APCD. The results from the emission tests for emissions units P029, P030, P032, and P036 shall summed to determine compliance with the combined particulate emission limitation.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Shot Blaster OB03 (P030)
Activity Description: Wheelabrator #3 Tablast shot cleaner

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Wheelabrator #3 Tablast shot cleaner with a maximum process weight rate of 2 tons per hour controlled by a baghouse (SB1) - Shot Blaster OB03	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B), Figure II	22.7 pounds per hour of particulate emissions, as a combined limitation for emissions units P029, P030, P032, and P036 See A.I.2.a below.

2. Additional Terms and Conditions

- 2.a Emissions units P029, P030, P032, and P036 are similar emissions units; therefore, the total uncontrolled mass rate of emissions (UMRE) from all of the units shall be used to determine the combined allowable emission limitation from Figure II of OAC rule 3745-17-11. The UMRE was calculated using an emission factor found in a document entitled "An Inventory of Iron Foundry Emissions" by Bernard S. Gutow, dated January, 1972. The document provided an emission factor for shot blasting operations of 15.5 pounds of particulates per ton of metal (uncontrolled). Multiplying this factor by the maximum process weight rate for each emissions unit gives a total UMRE of 294.5 pounds per hour of particulates. Using Figure II, the combined allowable emission rate is determined from curve P1 and the equation: $A = 0.5782(U)^{0.6456}$, where "U" is the UMRE.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 8 inches of water, while the emissions unit is in operation.

The permittee may petition the Canton City Health Department, Air Pollution Control Division (CCHD, APCD) to reestablish the pressure drop range provided the permittee can demonstrate to the satisfaction of the CCHD, APCD that the operating conditions upon which the pressure drop range was previously established are no longer applicable.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

The permittee shall submit the deviation (excursion) reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.ii.

2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

22.7 pounds per hour of particulate emissions, as a combined limitation for emissions units P029, P030, P032, and P036

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

The tests shall be conducted while emissions units P029 and P030 are operating at or near their maximum capacities, unless otherwise specified or approved by the CCHD, APCD. The results from the emission tests for emissions units P029, P030, P032, and P036 shall summed to determine compliance with the combined particulate emission limitation.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Grit Blaster OB06 (P032)
Activity Description: Pangborn No. 34 mechanical grit blaster

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Pangborn No. 34 mechanical grit blaster with a maximum process weight rate of 2.5 tons per hour controlled by a baghouse (GB1) - Grit Blaster OB06	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B), Figure II	22.7 pounds per hour of particulate emissions, as a combined limitation for emissions units P029, P030, P032, and P036 See A.I.2.a below.

2. Additional Terms and Conditions

- 2.a Emissions units P029, P030, P032, and P036 are similar emissions units; therefore, the total uncontrolled mass rate of emissions (UMRE) from all of the units shall be used to determine the combined allowable emission limitation from Figure II of OAC rule 3745-17-11. The UMRE was calculated using an emission factor found in a document entitled "An Inventory of Iron Foundry Emissions" by Bernard S. Gutow, dated January, 1972. The document provided an emission factor for shot blasting operations of 15.5 pounds of particulates per ton of metal (uncontrolled). Multiplying this factor by the maximum process weight rate for each emissions unit gives a total UMRE of 294.5 pounds per hour of particulates. Using Figure II, the combined allowable emission rate is determined from curve P1 and the equation: $A = 0.5782(U)^{0.6456}$, where "U" is the UMRE.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 8 inches of water, while the emissions unit is in operation.

The permittee may petition the Canton City Health Department, Air Pollution Control Division (CCHD, APCD) to reestablish the pressure drop range provided the permittee can demonstrate to the satisfaction of the CCHD, APCD that the operating conditions upon which the pressure drop range was previously established are no longer applicable.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

The permittee shall submit the deviation (excursion) reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.ii.

2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

22.7 pounds per hour of particulate emissions, as a combined limitation for emissions units P029, P030, P032, and P036

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

The tests shall be conducted while this emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the CCHD, APCD. The results from the emission tests for emissions units P029, P030, P032, and P036 shall summed to determine compliance with the combined particulate emission limitation.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Grinding Area No. 1 (P033)
Activity Description: Hand grinding of forgings

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
hand grindings of forgings with a maximum process weight rate of 2.38 tons per hour controlled by a baghouse (GRND) - Grinding Area No. 1	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-07(B)	Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	The permittee shall minimize or eliminate visible fugitive particulate emissions through the employment of reasonably available control measures (RACM).
	OAC rule 3745-17-11(B)	See A.I.2.a below. 7.33 pounds per hour of particulate emissions See A.I.2.b below.

2. Additional Terms and Conditions

- 2.a The permittee shall use a three-sided booth enclosure with the particulate emissions directed towards the ventilation duct to minimize or eliminate visible fugitive particulate emissions from this emissions unit.

The collection efficiency of the booth ventilation system shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.
- 2.b The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using an emission factor of 1.6 pounds of particulate emissions per ton for grinding operations found in a document entitled "An Inventory of Iron Foundry Emissions" by Bernard S. Gutow, dated January, 1972, Figure II does not apply because the uncontrolled mass rate of emissions (UMRE) was determined to be less than 10 pounds per hour. Therefore, the allowable particulate emission limitation was determined from Table 1, based on the maximum process weight rate of the emissions unit.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 8 inches of water, while the emissions unit is in operation.

The permittee may petition the Canton City Health Department, Air Pollution Control Division (CCHD, APCD) to reestablish the pressure drop range provided the permittee can demonstrate to the satisfaction of the CCHD, APCD that the operating conditions upon which the pressure drop range was previously established are no longer applicable.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g. windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

The permittee shall submit the deviation (excursion) reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.ii.

2. The permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 6-minute average, for stack emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible particulate emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

20% opacity as a 3-minute average, for fugitive emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible particulate emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.c Emission Limitation:

7.33 pounds per hour of particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC Rule 3745-17-03(B)(10).

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the CCHD, APCD. The following parameters also shall be monitored and recorded during the emissions testing: the pressure drop across the baghouse and the process weight rate, in tons.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Grinding Area No. 2 (P034)
Activity Description: Hand grinding of forgings

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
hand grindings of forgings with a maximum process weight rate of 2.38 tons per hour controlled by a baghouse (GRND) - Grinding Area No. 2	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-07(B)	Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	The permittee shall minimize or eliminate visible fugitive particulate emissions through the employment of reasonably available control measures (RACM).
	OAC rule 3745-17-11(B)	See A.I.2.a below. 7.33 pounds per hour of particulate emissions See A.I.2.b below.

2. Additional Terms and Conditions

- 2.a The permittee shall use a three-sided booth enclosure with the particulate emissions directed towards the ventilation duct to minimize or eliminate visible fugitive particulate emissions from this emissions unit.

The collection efficiency of the booth ventilation system shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

- 2.b The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using an emission factor of 1.6 pounds of particulate emissions per ton for grinding operations found in a document entitled "An Inventory of Iron Foundry Emissions" by Bernard S. Gutow, dated January, 1972, Figure II does not apply because the uncontrolled mass rate of emissions (UMRE) was determined to be less than 10 pounds per hour. Therefore, the allowable particulate emission limitation was determined from Table 1, based on the maximum process weight rate of the emissions unit.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 8 inches of water, while the emissions unit is in operation.

The permittee may petition the Canton City Health Department, Air Pollution Control Division (CCHD, APCD) to reestablish the pressure drop range provided the permittee can demonstrate to the satisfaction of the CCHD, APCD that the operating conditions upon which the pressure drop range was previously established are no longer applicable.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g. windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

The permittee shall submit the deviation (excursion) reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.ii.

2. The permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 6-minute average, for stack emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible particulate emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

20% opacity as a 3-minute average, for fugitive emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible particulate emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.c Emission Limitation:

7.33 pounds per hour of particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC Rule 3745-17-03(B)(10).

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the CCHD, APCD. The following parameters also shall be monitored and recorded during the emissions testing: the pressure drop across the baghouse and the process weight rate, in tons.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Grinding Area No. 3 (P035)
Activity Description: Hand grinding of forgings

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
hand grindings of forgings with a maximum process weight rate of 2.38 tons per hour controlled by a baghouse (GRND) - Grinding Area No. 3	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-07(B)	Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	The permittee shall minimize or eliminate visible fugitive particulate emissions through the employment of reasonably available control measures (RACM).
	OAC rule 3745-17-11(B)	See A.I.2.a below. 7.33 pounds per hour of particulate emissions See A.I.2.b below.

2. Additional Terms and Conditions

- 2.a The permittee shall use a three-sided booth enclosure with the particulate emissions directed towards the ventilation duct to minimize or eliminate visible fugitive particulate emissions from this emissions unit.

The collection efficiency of the booth ventilation system shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

- 2.b The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using an emission factor of 1.6 pounds of particulate emissions per ton for grinding operations found in a document entitled "An Inventory of Iron Foundry Emissions" by Bernard S. Gutow, dated January, 1972, Figure II does not apply because the uncontrolled mass rate of emissions (UMRE) was determined to be less than 10 pounds per hour. Therefore, the allowable particulate emission limitation was determined from Table 1, based on the maximum process weight rate of the emissions unit.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 8 inches of water, while the emissions unit is in operation.

The permittee may petition the Canton City Health Department, Air Pollution Control Division (CCHD, APCD) to reestablish the pressure drop range provided the permittee can demonstrate to the satisfaction of the CCHD, APCD that the operating conditions upon which the pressure drop range was previously established are no longer applicable.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g. windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

The permittee shall submit the deviation (excursion) reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.ii.

2. The permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 6-minute average, for stack emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible particulate emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

20% opacity as a 3-minute average, for fugitive emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible particulate emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.c Emission Limitation:

7.33 pounds per hour of particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC Rule 3745-17-03(B)(10).

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the CCHD, APCD. The following parameters also shall be monitored and recorded during the emissions testing: the pressure drop across the baghouse and the process weight rate, in tons.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Shot Blaster OB08 (P036)
Activity Description: Wheelabrator Super II Tumblast shot cleaner

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Wheelabrator Super II Tumblast shot cleaner with a maximum process weight rate of 12.5 tons per hour controlled by a baghouse (SB2) - Shot Blaster OB08	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B), Figure II	22.7 pounds per hour of particulate emissions, as a combined limitation for emissions units P029, P030, P032, and P036 See A.I.2.a below.

2. Additional Terms and Conditions

- 2.a Emissions units P029, P030, P032, and P036 are similar emissions units; therefore, the total uncontrolled mass rate of emissions (UMRE) from all of the units shall be used to determine the combined allowable emission limitation from Figure II of OAC rule 3745-17-11. The UMRE was calculated using an emission factor found in a document entitled "An Inventory of Iron Foundry Emissions" by Bernard S. Gutow, dated January, 1972. The document provided an emission factor for shot blasting operations of 15.5 pounds of particulates per ton of metal (uncontrolled). Multiplying this factor by the maximum process weight rate for each emissions unit gives a total UMRE of 294.5 pounds per hour of particulates. Using Figure II, the combined allowable emission rate is determined from curve P1 and the equation: $A = 0.5782(U)^{0.6456}$, where "U" is the UMRE.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 8 inches of water, while the emissions unit is in operation.

The permittee may petition the Canton City Health Department, Air Pollution Control Division (CCHD, APCD) to reestablish the pressure drop range provided the permittee can demonstrate to the satisfaction of the CCHD, APCD that the operating conditions upon which the pressure drop range was previously established are no longer applicable.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

The permittee shall submit the deviation (excursion) reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.ii.

2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.b Emission Limitation:

22.7 pounds per hour of particulate emissions, as a combined limitation for emissions units P029, P030, P032, and P036

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

The tests shall be conducted while this emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the CCHD, APCD. The results from the emission tests for emissions units P029, P030, P032, and P036 shall summed to determine compliance with the combined particulate emission limitation.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Box Furnace FB10 (P038)

Activity Description: Natural gas and No. 6 fuel oil fired Canton Drop Forge box furnace, maximum heat input 3.20 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas and No. 6 oil-fired Canton Drop Forge box furnace, with a maximum heat input of 3.20 mmBtu per hour - Furnace FB10	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.
	OAC rule 3745-31-05(A)(3) (PTI 15-197)	See A.I.2.f and A.II.2 below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.

2. Additional Terms and Conditions (continued)

- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 20.0 pounds per hour.
- 2.f Compliance with this rule also includes compliance with OAC rules 3745-17-07(B), 3745-17-08(B), and 3745-18-06(E)(1).

II. Operational Restrictions

- 1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.
- 2. The sulfur content of the No. 6 fuel oil burned in this emissions unit shall not exceed 1%, by weight.

III. Monitoring and/or Record Keeping Requirements

- 1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- 2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content.

The permittee shall perform or require the supplier to perform the analyses for sulfur content, heat content and density of the oil in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods. Alternative, USEPA-approved methods may be used upon written approval from the Canton City Health Department, Air Pollution Control Division (CCHD, APCD).

- 3. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

- 1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

IV. Reporting Requirements (continued)

2. The permittee shall notify the Director (the CCHD, APCD) in writing of any record which shows a deviation of the allowable sulfur content limitation based upon the sulfur content for each shipment of oil from section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the CCHD, APCD) within 45 days after the deviation occurs.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
4. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

- 1.b Emission Limitation:

SO₂ emissions shall not exceed 20.0 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=the No. 6 fuel oil sulfur content from section A.III, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (21.3 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Box Furnace FB14 (P039)

Activity Description: Natural gas and No. 6 fuel oil fired Canton Drop Forge box furnace, maximum heat input 4.57 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas and No. 6 oil-fired Canton Drop Forge box furnace, with a maximum heat input of 4.57 mmBtu per hour - Furnace FB14	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.
	OAC rule 3745-31-05(A)(3) (PTI 15-197)	See A.I.2.f and A.II.2 below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.

2. Additional Terms and Conditions (continued)

- 2.e** Sulfur dioxide (SO₂) emissions shall not exceed 20.0 pounds per hour.
- 2.f** Compliance with this rule also includes compliance with OAC rules 3745-17-07(B), 3745-17-08(B), and 3745-18-06(E)(1).

II. Operational Restrictions

- 1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.
- 2. The sulfur content of the No. 6 fuel oil burned in this emissions unit shall not exceed 1%, by weight.

III. Monitoring and/or Record Keeping Requirements

- 1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- 2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content.

The permittee shall perform or require the supplier to perform the analyses for sulfur content, heat content and density of the oil in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods. Alternative, USEPA-approved methods may be used upon written approval from the Canton City Health Department, Air Pollution Control Division (CCHD, APCD).

- 3. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

- 1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

IV. Reporting Requirements (continued)

2. The permittee shall notify the Director (the CCHD, APCD) in writing of any record which shows a deviation of the allowable sulfur content limitation based upon the sulfur content for each shipment of oil from section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the CCHD, APCD) within 45 days after the deviation occurs.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
4. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

- 1.b Emission Limitation:

SO₂ emissions shall not exceed 20.0 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=the No. 6 fuel oil sulfur content from section A.III, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (30.5 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Heat Treat Furnace OF09 (P040)

Activity Description: Natural gas fired Hagan pusher type quench and draw furnace, maximum heat input 13 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas-fired Hagan pusher type draw furnace, with a maximum heat input of 13 mmBtu per hour - Furnace OF09	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factor of 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 20.7 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 20.7 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

Compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Rotary Furnace FR11 (P041)

Activity Description: 17 ft. natural gas and No. 6 fuel oil fired Hagan rotary furnace, maximum heat input 21.56 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
17-foot, natural gas and No. 6 fuel oil-fired Hagan rotary furnace, maximum heat input 21.56 mmBtu per hour - Furnace FR11	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.
	OAC rule 3745-31-05(A)(3) (PTI 15-291)	Particulate emissions shall not exceed 0.02 pound per mmBtu actual heat input and 0.438 ton per year. Sulfur dioxide (SO ₂) emissions shall not exceed 0.15 pound per mmBtu actual heat input and 0.05 ton per year. See A.I.2.f below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.

2. Additional Terms and Conditions (continued)

2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.

2.e The SO₂ emission limitation specified by this rule is less stringent than the SO₂ emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

2.f Compliance with this rule also includes compliance with OAC rules 3745-17-07(B) and 3745-17-08(B).

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:

- a. the location and color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

3. The permittee shall maintain annual records of the amount of natural gas (in mmscf) and No. 6 fuel oil (in gallons) burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. The permittee shall also submit annual reports that specify the total particulate and SO₂ emissions from this emissions unit for the previous calendar year. The reports shall be submitted by January 31 of each year.
4. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

V. Testing Requirements (continued)

1.b Emission Limitations:

Particulate emissions shall not exceed 0.02 pound per mmBtu actual heat input and 0.438 ton per year.

Applicable Compliance Method:

The particulate emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the heating process.

When firing No. 6 fuel oil, compliance may be determined by multiplying an emission factor of $[9.19(S) + 3.22]$ pounds of particulates/1000 gallons of oil fired, where $S=1.75\%$, by the emissions unit's maximum hourly fuel oil firing capacity (143.7 gallons per hour) and dividing by the emissions unit's rated heat input capacity (21.56 mmBtu per hour). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).

When firing natural gas, compliance may be determined by multiplying an emission factor of 1.9 pounds of particulates/mm standard cu. ft. by the emissions unit's maximum hourly natural gas firing capacity (.0205 mm standard cu. ft./hr) and dividing by the emissions unit's rated heat input capacity (21.56 mmBtu per hour). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

Compliance with the annual emission limitation shall be demonstrated by summing the total particulate emissions from the burning of natural gas and No. 6 fuel oil. The total particulate emissions from the burning of natural gas and No. 6 fuel oil shall be determined using the AP-42 emission factors cited above and the fuel usage records required pursuant to section A.III.

If required, the permittee shall demonstrate compliance with the pound per mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5, while firing No. 6 fuel oil.

1.c Emission Limitations:

SO₂ emissions shall not exceed 0.15 pound per mmBtu actual heat input and 0.05 ton per year.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with these limitations will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with the pound per mmBtu limitation may be determined by multiplying the AP-42 emission factor of $157(S)$ pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where $S=1.75\%$ for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (143.7 gallons per hour), and dividing by the emissions unit's maximum heat input capacity (21.56 mmBtu per hour).

Compliance with the annual emission limitation shall be determined using the AP-42 emission factor cited above and the fuel usage records required pursuant to section A.III.

If required, the permittee shall demonstrate compliance with the pound per mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Shot Blaster OB09 (P045)
Activity Description: Wheelabrator Super II Tumblast shot cleaner

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Wheelabrator Super II Tumblast shot cleaner with a maximum process weight rate of 12.5 tons per hour controlled by a baghouse (SB2) - Shot Blaster OB09	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-11(B)	See A.I.2.a below.
	OAC rule 3745-31-05(A)(3) (PTI 15-421)	1.0 pound per hour of particulate emissions or no visible particulate emissions from the exhaust stack 4.38 tons per year of particulate emissions

2. Additional Terms and Conditions

- 2.a The emission limitation(s) specified in this rule is (are) less stringent than the emission limitation(s) established pursuant to the best available technology determination required by OAC rule 3745-31-05(A)(3).

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 8 inches of water, while the emissions unit is in operation.

The permittee may petition the Canton City Health Department, Air Pollution Control Division (CCHD, APCD) for reestablishment of the pressure drop range provided the permittee can demonstrate to the satisfaction of the CCHD, APCD that the operating conditions upon which the pressure drop range was previously established are no longer applicable.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

The permittee shall submit the deviation (excursion) reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.ii.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the CCHD, APCD) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall also submit annual reports that specify the total particulate emissions from this emissions unit for the previous calendar year. The reports shall be submitted by January 31 of each year.
4. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

1.0 pound per hour of particulate emissions or no visible particulate emissions from the exhaust stack

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the pound per hour particulate emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5; otherwise, compliance shall be demonstrated by the absence of any visible emissions from the baghouse serving this emissions unit in accordance with 40 CFR Part 60, Appendix A, Method 22.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the CCHD, APCD. The following parameters shall also be monitored and recorded during the emission testing: the pressure drop across the baghouse and the process weight rate, in tons.

1.b Emission Limitation:

4.38 tons per year of particulate emissions

Applicable Compliance Method:

This emission limitation was established by multiplying the allowable hourly emission limitation by the maximum annual hours of operation (8760 hours per year), and then dividing by 2000 pounds per ton. Therefore, compliance with this emission limitation can be assumed provided that the permittee complies with the hourly emission limitation.

Facility Name: **Canton Drop Forge**
Facility ID: **15-76-00-0073**
Emissions Unit: **Shot Blaster OB09 (P045)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Box Furnace FB06 (P046)

Activity Description: Natural gas and No. 6 fuel oil fired Canton Drop Forge box furnace, maximum heat input 5.33 MMBtu/hr

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas and No. 6 oil-fired Canton Drop Forge box furnace, with a maximum heat input of 5.33 mmBtu per hour - Furnace FB06	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	See A.I.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.I.2.e below.

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity as a 3-minute average.
- 2.c No controls are necessary for this emissions unit to satisfy the reasonably available control measure requirements specified in OAC rule 3745-17-08(B), because the process materials (steel billets) employed in this emissions unit do not generate particulate emissions during the charging of the furnace or during the heating process.
- 2.d The permittee shall comply with the more restrictive requirement of either Table 1 or Figure II of OAC rule 3745-17-11. Based on calculations using the AP-42 emission factors of [9.19(S) + 3.22] pound of particulates per 1000 gallons from Section 1.3, Table 1.3-1 (9/98) for fuel oil combustion, and 1.9 pounds of particulates per mmscf from Section 1.4, Table 1.4-2 (7/98) for natural gas combustion, the uncontrolled mass rate of particulate emissions* was determined to be less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

* The burning of natural gas or No. 6 fuel oil is the only source of particulate emissions from this emissions unit.
- 2.e Sulfur dioxide (SO₂) emissions shall not exceed 16.5 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas and No. 6 fuel oil as fuel in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. For each day when No. 6 fuel oil is burned in this emissions unit, the permittee shall perform a daily check when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any non-stack egress point (e.g., windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive particulate emissions shall be noted in an operations log. If visible fugitive particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. For each day during which the permittee burns a fuel other than natural gas or No. 6 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. For days during which No. 6 fuel oil is burned, the permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from any non-stack egress point serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 6 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 3-minute average for visible fugitive particulate emissions

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

For purposes of verifying compliance with this emission limitation, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

1.b Emission Limitation:

SO₂ emissions shall not exceed 16.5 pounds per hour.

Applicable Compliance Method:

The SO₂ emissions generated by this emissions unit are due solely to the combustion of natural gas and No. 6 fuel oil. The process materials (steel billets) employed in this emissions unit do not generate SO₂ emissions during the heating process.

When burning natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

When burning No. 6 fuel oil, compliance with this limitation may be determined by multiplying the AP-42 emission factor of 157(S) pounds of SO₂ per 1000 gallons of fuel oil combusted from Section 1.3, Table 1.3-1 (9/98), where S=1.75% for No. 6 fuel oil, by the emissions unit's maximum hourly No. 6 fuel oil firing rate (35.5 gallons per hour).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Die Washing (Z002)
Activity Description: Cleaning of dies using kerosene and steam

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
cleaning of dies using kerosene and steam	OAC rule 3745-21-07(G)(2)	Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day for the cleaning operation:
 - a. the company identification for each photochemically reactive cleanup material employed;
 - b. the number of gallons of each photochemically reactive cleanup material employed;
 - c. the organic compound content of each photochemically reactive cleanup material, in pounds per gallon;
 - d. the total organic compound emission rate for all photochemically reactive cleanup materials, in pounds;
 - e. the total number of hours the emissions unit was in operation; and
 - f. the average hourly organic compound emission rate for all photochemically reactive cleanup materials, i.e., (d)/(e), in pounds per hour (average).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include the following information:
 - a. an identification of each day during which the average hourly organic compound emissions from the photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - b. an identification of each day during which the organic compound emissions from the photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

The permittee shall submit the deviation (excursion) reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.ii.
2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitations:

Organic compound emissions shall not exceed 8 pounds per hour and 40 pounds per day.

Applicable Compliance Method:

Compliance may be demonstrated based upon the records required pursuant to section A.III.1. If required, the permittee shall demonstrate compliance with the hourly organic compound emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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