



State of Ohio Environmental Protection Agency

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P.O. Box 1049  
Columbus, OH 43216-1049

08/31/01

**RE: Proposed Title V Chapter 3745-77 Permit  
14-31-14-0861  
Ford Motor Company**

Attn: Genevieve Damico AR-18J  
United States Environmental Protection Agency  
Region V  
77 West Jackson Blvd.  
Chicago, IL 60604-3590

Dear Ms. Damico:

The proposed issuance of the Title V permit for Ford Motor Company, has been created in Ohio EPA's State Air Resources System (STARS) on 08/31/01, for review by USEPA. This proposed action is identified in STARS as  3-Title V Proposed Permit T+C covering the facility specific terms and conditions, and  Title V Proposed Permit covering the general terms and conditions. This proposed permit will be processed for issuance as a final action after forty-five (45) days from USEPA's receipt of this certified letter if USEPA does not object to the proposed permit. Please contact Mike Ahern, DAPC Permit Management Unit supervisor at (614) 644-3631 by the end of the forty-five (45) day review period if you wish to object to the proposed permit.

Very truly yours,

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: Hamilton County Dept. of Environmental Services  
File, DAPC PMU



State of Ohio Environmental Protection Agency

**PROPOSED TITLE V PERMIT**

Issue Date: 08/31/01	Effective Date: To be entered upon final issuance	Expiration Date: To be entered upon final issuance
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This document constitutes issuance of a Title V permit for Facility ID: 14-31-14-0861 to:  
 Ford Motor Company  
 3000 Sharon Road  
 Cincinnati, OH 45241

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

B002 (Boiler #2) Boiler #2, 97.5 MMBtu/Hr	B023 (Boiler #1A) Boiler #1A, 34.5 MMBtu/Hr
B003 (Boiler #3) Boiler #3, 146.5 MMBtu/Hr	B024 (Boiler #1B) Boiler #1B, 34.5 MMBtu/Hr

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. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal 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:

Hamilton County Dept. of Environmental Services  
 250 William Howard Taft Rd  
 Cincinnati, OH 45219-2660  
 (513) 946-7777

**OHIO ENVIRONMENTAL PROTECTION AGENCY**

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Christopher Jones  
 Director

## PART I - GENERAL TERMS AND CONDITIONS

### A. State and Federally Enforceable Section

#### 1. Monitoring and Related Recordkeeping 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.
- 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - i. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (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. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. 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. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.) See B.8 below if no deviations occurred during the quarter.
  - iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, 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. 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, recordkeeping, 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.

- 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 are true, accurate, and complete.

## **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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

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 emission unit(s) that is (are) served by such control system(s).

## **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.

## **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.

## **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.

## **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. 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.

## **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.

## **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.

## **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.

## 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 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.

## 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.

## 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 appropriate Ohio EPA District Office or local air agency 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.

### **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.

#### **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).

#### **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.

#### **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, 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; and
- 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 further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

#### **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.

#### **18. Insignificant Activity**

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

## **B. State Only Enforceable Section**

### **1. 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.

### **2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping 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 (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) 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. 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.)

### **3. 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.

### **4. 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.

**5. 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).

**6. 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.

**7. 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.

**8. 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

None

### B. State Only Enforceable Section

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

B011 gas-fired furnace;  
B020 emergency diesel fire pumps;  
B021 emergency diesel generator;  
B022 pusher furnace;  
F001 coal handling system;  
F002 parking lot and roadways;  
G001 gasoline dispensing facility;  
P030 shot blast machine;  
P066 various machining operations;  
P068 various machining operations;  
P080 through P084 various machining operations;  
P087 through P089 various machining operations;  
P091 various machining operations;  
P098 various machining operations;  
P099 mig welder;  
P100 and P101 various machining operations;  
P106 and P107 various machining operations;  
P111 and P112 welders;  
P113 various machining operations;  
P114 pusher furnace;  
P118 through P123 various machining operations;  
P125 various machining operations;  
P131 various machining operations;  
P133 various machining operations;  
P138 various machining operations;  
P142 through P145 various machining operations;  
P153 and P154 various machining operations;  
P162 and P164 various machining operations;  
P167 cardboard shredder;  
P169 and P170 various machining operations;  
P171 shot blast;

**B. State Only Enforceable Section (continued)**

T001 and T002 bulk transmission fluid tanks;  
T003 mineral oil tank;  
T004 mineral seal oil tank;  
T005 spindle oil tank;  
T006 and T007 hydraulic oil tanks;  
T008 torque oil tank;  
T009 cutting oil tank;  
T010 lube oil tank;  
T011 soluble oil tank;  
T016 and T017 No. 2 fuel oil tanks;  
T018 bulk transmission fluid tank;  
X001 transfer machines;  
X002 bores group;  
X004 transfer machine;  
X005 bores group;  
Z001 generators;  
Z002 heat treat furnace;  
Z003 oil water separator;  
Z004 lab fume hoods;  
Z005 tank farm;  
Z006 blanker and heavy presses;  
Z007 waste water tanks;  
Z008 emergency diesel generator; and  
Z010 maintenance parts cleaners.

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.

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Boiler #2 (B002)  
**Activity Description:** Boiler #2, 97.5 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>
97.5 MMBtu/hr natural gas-fired boiler with multiclone and fabric filter (backup fuels: No. 2 oil, used oil, and coal as stand-by)	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-10(C)(1)	0.15 lb of particulate emissions (PE)/MMBtu of actual heat input, when fired with coal and/or used oil
	OAC rule 3745-18-37(V)(1)	1.7 lbs of sulfur dioxide (SO <sub>2</sub> ) emissions/MMBtu of actual heat input, except when firing only with natural gas
	OAC rule 3745-17-10(B)(1)	0.020 lb of particulate emissions (PE)/MMBtu of actual heat input, when fired only with natural gas or No. 2 oil

##### 2. Additional Terms and Conditions

None

##### II. Operational Restrictions

- When firing with coal, No. 2 oil, and/or used oil, the total combined heat input from emissions units B002 and B003 shall not exceed a daily average operating rate of 244 MMBtu per hour. This total heat input of 244 MMBtu per hour corresponds to a combined steam load of 200,000 pounds per hour (based upon an average over any calendar day).
- The quality of the coal burned in this emissions unit, on an as-received basis, shall have a combination of sulfur content and heat content that is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.7 lbs of SO<sub>2</sub>/MMBtu of actual heat input.

Compliance with the above-mentioned specifications shall be determined by using the analytical results for the composite sample of coal collected during each calendar month.

- The quality of the No. 2 oil and the used oil burned in this emissions unit shall have a sulfur content that is sufficient to comply with the allowable SO<sub>2</sub> emission limitation specified in section A.I above.

## II. Operational Restrictions (continued)

4. When utilizing coal as a fuel in this emissions unit, the pressure drop across the baghouse shall be maintained within the range of 4 to 6 inches of water column while the emissions unit is in operation.

## III. Monitoring and/or Record Keeping Requirements

1. Coal Sampling and Analysis (when coal is utilized as fuel):

The permittee shall collect a representative sample of each shipment of coal that is received for burning. The coal sampling shall be performed in accordance with ASTM method D2234, Collection of a Gross Sample of Coal. At the end of each calendar month, the representative samples of coal from all shipments of coal that were received during that calendar month shall be combined into one composite sample.

Each monthly composite sample of coal shall be analyzed for sulfur content (percent) and heat content (Btu/pound of coal). The analytical methods for sulfur content and heat content shall be: ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; and ASTM method D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, ASTM method D3286, Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter, or ASTM method D1989, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isotherm Bomb Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval from the Hamilton County Department of Environmental Services.

2. Coal Usage and SO<sub>2</sub> Emissions Record Keeping (when coal is utilized as fuel):

The permittee shall maintain monthly records of the following:

- a. the total quantity of coal received;
  - b. the results of the analyses for sulfur content;
  - c. the results of the analyses for heat content; and
  - d. the average SO<sub>2</sub> emission rate (in lbs/MMBtu) calculated pursuant to the equation in OAC rule 3745-18-04(G)(1).
3. No. 2 Oil and Used Oil Sampling and Analysis:

The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR, Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

4. No. 2 Oil and Used Oil Usages and SO<sub>2</sub> Emissions Record Keeping:

For each shipment of No. 2 oil and/or used 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 and heat content, and the calculated sulfur dioxide emissions (in lbs/MMBtu). The sulfur dioxide emissions shall be calculated in accordance with the equation specified in OAC rule 3745-18-04(F)(2).

5. The permittee shall maintain and operate a continuous monitor and recorder for the steam flow rate for emissions units B002 and B003.
6. When utilizing coal as a fuel, 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 daily basis.

#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each period during which the sulfur content and heat content of the fuels, as monitored pursuant to sections A.III.2 and A.III.4, did not comply with the SO<sub>2</sub> emission limitation.
2. The permittee shall submit deviation (excursion) reports that identify any exceedance of the 200,000 pounds of steam per hour limitation (based upon a daily average). This report shall be submitted to the Hamilton County Department of Environmental Services within five business days after the exceedance and shall contain the following information:
  - a. the date of the exceedance;
  - b. the time interval over which the exceedance occurred;
  - c. the value of the exceedance;
  - d. the cause(s) of the exceedance;
  - e. the corrective action(s) which has (have) been or will be taken to prevent similar exceedances in the future; and
  - f. a copy of the steam chart that shows the exceedance.
3. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse, when utilizing coal as a fuel in this emissions unit, did not comply with the allowable range specified above.
4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c.ii.

#### V. Testing Requirements

1. Visible Particulate Emission Limitation:

If required, compliance shall be determined 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).

2. Particulate Emission Limitation (when utilizing coal as fuel):

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 3 months of activating this emissions unit for firing with coal.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emissions of 0.15 lb of PE/MMBtu of actual heat input, when burning coal.
- c. The following test method shall be employed to demonstrate compliance with the allowable mass emissions:

Method 5 of 40 CFR, Part 60, Appendix A.

- d. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Department of Environmental Services. 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, and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Hamilton County Department of Environmental Services' refusal to accept the results of the emission test.

## **V. Testing Requirements (continued)**

Personnel from the Hamilton County Department of Environmental Services shall be permitted to witness the test, 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 emissions test shall be signed by the person or persons responsible for the test and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the test.

### **3. Sulfur Dioxide Emission Limitation:**

a. Except as otherwise provided in section A.V.3.b, compliance with OAC rule 3745-18-37(V)(1) shall be determined by the record keeping requirements in sections A.III.2 and A.III.4 and the methods specified in OAC rules 3745-18-04(F)(2) and 3745-18-04(G)(1).

b. If testing is required to demonstrate compliance with the allowable emission limitation of 1.7 lbs of SO<sub>2</sub>/MMBtu of actual heat input, then testing shall be conducted using the following method:

Method 6 of 40 CFR, Part 60, Appendix A.

## **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>
97.5 MMBtu/hr natural gas-fired boiler with multiclone and fabric filter (backup fuels: No. 2 oil, used oil, and coal as stand-by)	none	none

**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

- Prior to combusting used oil this emissions unit, the permittee shall perform the reporting requirements in section B.IV.1 of this permit.
- All recycled, used oil burned in this emissions unit shall meet the following specifications:

Contaminant/Property	Allowable Specification
arsenic	5 ppm, maximum
cadmium	2 ppm, maximum
chromium	15 ppm, maximum
lead	100 ppm, maximum
PCBs	10 ppm, maximum*
total halogens	6000 ppm, maximum**
mercury	1 ppm, maximum
flash point	100 degrees F, minimum
heat content	120,000 Btu/gallon, minimum

\* If the permittee is burning used oil with any quantifiable level (i.e., 2 ppm) of PCBs, then the permittee is subject to the notification requirements of 40 CFR 279.62.

\*\* Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under 40 CFR, Part 266.40(c) and OAC Chapter 3745-279. Therefore, the permittee may burn used oil exceeding 1000 ppm of total halogens (but less than 6000 ppm, maximum) only if the permittee has demonstrated to the Ohio EPA's Division of Hazardous Waste Management that the used oil does not contain any hazardous waste.

### **III. Monitoring and/or Record Keeping Requirements**

**1. Used Oil Analysis:**

The permittee shall receive a chemical analysis with each shipment of used oil received and shall maintain records of all such analyses. Each analysis shall identify the name and address of the supplier, the supplier's USEPA identification number, and the following information:

- a. quantity of used oil received;
- b. the Btu value of the used oil;
- c. the flash point of the used oil;
- d. the arsenic content;
- e. the cadmium content;
- f. the chromium content;
- g. the lead content;
- h. the PCB content;
- i. the total halogen content; and
- j. the mercury content.

### **IV. Reporting Requirements**

- 1.** The permittee shall notify USEPA and Ohio EPA if any of the used oil exceeds the used oil specifications found in section B.II.2 and OAC rule 3745-279-11. If the permittee is burning used oil that exceeds the specifications found in OAC rule 3745-279-11, the permittee is subject to that rule and must comply with all provisions of that rule.

### **V. Testing Requirements**

- 1.** Compliance with the used oil specifications shall be determined by the record keeping requirements in section B.III of these terms and conditions.

### **VI. Miscellaneous Requirements**

- 1.** When utilizing coal as a fuel in such a manner that this emissions unit is no longer considered "stand-by" as defined in OAC rule 3745-17-01(B)(20), within 45 days after the declassification, the permittee shall demonstrate compliance with the requirements specified in 40 CFR, Part 60, Appendices A and F.

## Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Boiler #3 (B003)  
**Activity Description:** Boiler #3, 146.5 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>
146.5 MMBtu/hr natural gas-fired boiler with multiclone and fabric filter (backup fuels: No. 2 oil, used oil, and coal as stand-by)	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-10(C)(1)	0.15 lb of particulate emissions (PE)/MMBtu of actual heat input, when fired with coal and/or used oil
	OAC rule 3745-18-37(V)(1)	1.7 lbs of sulfur dioxide (SO <sub>2</sub> ) emissions/MMBtu of actual heat input, except when firing only with natural gas
	OAC rule 3745-17-10(B)(1)	0.020 lb particulate emissions (PE)/MMBtu of actual heat input, when fired only with natural gas or No. 2 oil

#### 2. Additional Terms and Conditions

None

#### II. Operational Restrictions

1. When firing with coal, No. 2 oil, and/or used oil, the total combined heat input from emissions units B002 and B003 shall not exceed a daily average operating rate of 244 MMBtu per hour. This total heat input of 244 MMBtu per hour corresponds to a combined steam load of 200,000 pounds per hour (based upon an average over any calendar day).
2. The quality of the coal burned in this emissions unit, on an as-received basis, shall have a combination of sulfur content and heat content that is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.7 lbs of SO<sub>2</sub>/MMBtu of actual heat input.

Compliance with the above-mentioned specifications shall be determined by using the analytical results for the composite sample of coal collected during each calendar month.

3. The quality of the No. 2 oil and used oil burned in this emissions unit shall have a sulfur content that is sufficient to comply with the allowable SO<sub>2</sub> emission limitation specified in section A.I above.

## II. Operational Restrictions (continued)

4. When utilizing coal as a fuel, the pressure drop across the baghouse shall be maintained within the range of 4 to 6 inches of water column while the emissions unit is in operation.

## III. Monitoring and/or Record Keeping Requirements

1. Coal Sampling and Analysis (when coal is utilized as fuel):

The permittee shall collect a representative sample of each shipment of coal that is received for burning. The coal sampling shall be performed in accordance with ASTM method D2234, Collection of a Gross Sample of Coal. At the end of each calendar month, the representative samples of coal from all shipments of coal that were received during that calendar month shall be combined into one composite sample.

Each monthly composite sample of coal shall be analyzed for sulfur content (percent) and heat content (Btu/pound of coal). The analytical methods for sulfur content and heat content shall be: ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; and ASTM method D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, ASTM method D3286, Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter, or ASTM method D1989, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isotherm Bomb Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval from the Hamilton County Department of Environmental Services.

2. Coal Usage and SO<sub>2</sub> Emissions Record Keeping (when coal is utilized as fuel):

The permittee shall maintain monthly records of the following:

- a. the total quantity of coal received;
  - b. the results of the analyses for sulfur content;
  - c. the results of the analyses for heat content; and
  - d. the average SO<sub>2</sub> emission rate (in lbs/MMBtu) calculated pursuant to the equation in OAC rule 3745-18-04(G)(1).
3. No. 2 Oil and Used Oil Sampling and Analysis:

The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of No. 2 oil and/or used oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR, Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

4. No. 2 Oil and Used Oil Usages and SO<sub>2</sub> Emissions Record Keeping:

For each shipment of No. 2 oil and/or used 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 and heat content, and the calculated sulfur dioxide emissions (in lbs/MMBtu). The sulfur dioxide emissions shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)(2).

5. The permittee shall maintain and operate a continuous monitor and recorder for the steam flow rate for emissions units B002 and B003.
6. When utilizing coal as a fuel, 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 daily basis.

#### **IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify each period during which the sulfur content and heat content of the fuels, as monitored pursuant to sections A.III.2 and A.III.4, did not comply with the SO<sub>2</sub> emission limitation.
2. The permittee shall submit deviation (excursion) reports that identify any exceedance of the 200,000 pounds of steam per hour limitation (based upon a daily average). This report shall be submitted to the Hamilton County Department of Environmental Services within five business days after the exceedance and shall contain the following information:
  - a. the date of the exceedance;
  - b. the time interval over which the exceedance occurred;
  - c. the value of the exceedance;
  - d. the cause(s) of the exceedance;
  - e. the corrective action(s) which has (have) been or will be taken to prevent similar exceedances in the future; and
  - f. a copy of the steam chart that shows the exceedance.
3. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse, when utilizing coal as a fuel in this emissions unit, did not comply with the allowable range specified above.
4. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c.ii.

#### **V. Testing Requirements**

1. Visible Particulate Emission Limitation:

If required, compliance shall be determined 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).

2. Particulate Emission Limitation (when utilizing coal as fuel):

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 3 months of activating this emissions unit for firing with coal.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emissions of 0.15 lb of PE/MMBtu of actual heat input, when burning coal.
- c. The following test method shall be employed to demonstrate compliance with the allowable mass emissions:

Method 5 of 40 CFR, Part 60, Appendix A.

- d. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Department of Environmental Services. 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, and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Hamilton County Department of Environmental Services' refusal to accept the results of the emission test.

## **V. Testing Requirements (continued)**

Personnel from the Hamilton County Department of Environmental Services shall be permitted to witness the test, 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 emissions test shall be signed by the person or persons responsible for the test and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the test.

### **3. Sulfur Dioxide Emission Limitation:**

a. Except as otherwise provided in section A.V.3.b, compliance with OAC rule 3745-18-37(V)(1) shall be determined by the record keeping requirements in sections A.III.2 and A.III.4 and the methods specified in OAC rules 3745-18-04(F)(2) and 3745-18-04(G)(1).

b. If testing is required to demonstrate compliance with the allowable emission limitation of 1.7 lbs of SO<sub>2</sub>/MMBtu of actual heat input, then testing shall be conducted using the following method:

Method 6 of 40 CFR, Part 60, Appendix A.

## **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>
146.5 MMBtu/hr natural gas-fired boiler with multiclone and fabric filter (backup fuels: No. 2 oil, used oil, and coal as stand-by)	none	none

**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

- Prior to combusting used oil this emissions unit, the permittee shall perform the reporting requirements in section B.IV.1 of this permit.
- All recycled, used oil burned in this emissions unit shall meet the following specifications:

Contaminant/Property	Allowable Specification
arsenic	5 ppm, maximum
cadmium	2 ppm, maximum
chromium	15 ppm, maximum
lead	100 ppm, maximum
PCBs	10 ppm, maximum*
total halogens	6000 ppm, maximum**
mercury	1 ppm, maximum
flash point	100 degrees F, minimum
heat content	120,000 Btu/gallon, minimum

\* If the permittee is burning used oil with any quantifiable level (i.e., 2 ppm) of PCBs, then the permittee is subject to the notification requirements of 40 CFR 279.62.

\*\* Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under 40 CFR, Part 266.40(c) and OAC Chapter 3745-279. Therefore, the permittee may burn used oil exceeding 1000 ppm of total halogens (but less than 6000 ppm, maximum) only if the permittee has demonstrated to the Ohio EPA's Division of Hazardous Waste Management that the used oil does not contain any hazardous waste.

### **III. Monitoring and/or Record Keeping Requirements**

**1. Used Oil Analysis:**

The permittee shall receive a chemical analysis with each shipment of used oil received and shall maintain records of all such analyses. Each analysis shall identify the name and address of the supplier, the supplier's USEPA identification number, and the following information:

- a. quantity of used oil received;
- b. the Btu value of the used oil;
- c. the flash point of the used oil;
- d. the arsenic content;
- e. the cadmium content;
- f. the chromium content;
- g. the lead content;
- h. the PCB content;
- i. the total halogen content; and
- j. the mercury content.

### **IV. Reporting Requirements**

- 1.** The permittee shall notify USEPA and Ohio EPA if any of the used oil exceeds the used oil specifications found in section B.II.2 and OAC rule 3745-279-11. If the permittee is burning used oil that exceeds the specifications found in OAC rule 3745-279-11, the permittee is subject to that rule and must comply with all provisions of that rule.

### **V. Testing Requirements**

- 1.** Compliance with the used oil specifications shall be determined by the record keeping requirements in section B.III of these terms and conditions.

### **VI. Miscellaneous Requirements**

- 1.** When utilizing coal as a fuel in such a manner that this emissions unit is no longer considered "stand-by" as defined in OAC rule 3745-17-01(B)(20), within 45 days after the declassification, the permittee shall demonstrate compliance with the requirements specified in 40 CFR, Part 60, Appendices A and F.

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Boiler #1A (B023)  
**Activity Description:** Boiler #1A, 34.5 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>
34.5 MMBtu/hr natural gas and No. 2 oil-fired boiler (No. 1A)	OAC rule 3745-31-05(D) (PTI 14-4486)	See A.I.2.
	40 CFR, Part 60, Subpart Dc	The requirements of this rule also include compliance with the requirements of 40 CFR, Part 60, Subpart Dc and OAC rule 3745-17-10(B)(1).  Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.
	OAC rule 3745-17-07(A)(1)	The visible particulate emission limitation specified in OAC rule 3745-17-07(A)(1) is less stringent than the visible emission limitation specified in 40 CFR, Part 60, Subpart Dc.
	OAC rule 3745-17-10(B)(1)	0.020 lb of particulate emissions (PE)/MMBtu of actual heat input

##### 2. Additional Terms and Conditions

- 2.a Nitrogen oxides (NOx) emissions shall not exceed 0.17 lb/MMBtu of actual heat input when burning No. 2 fuel oil and 0.14 lb/MMBtu of actual heat input when burning only natural gas. Combined annual NOx emissions from the burning of both fuels shall not exceed 21.2 tons per year (TPY).
- 2.b Sulfur dioxide (SO2) emissions shall not exceed 0.33 lb/MMBtu of actual heat input and 49.9 TPY\*.

\*The TPY emission limitation is based on the emissions unit's potential to emit. Therefore, no annual record keeping, reporting, or compliance measures are necessary.

##### II. Operational Restrictions

1. The permittee shall maintain and operate a low-NOx burner capable of meeting the NOx emission limitations of 0.17 lb/MMBtu of actual heat input when burning No. 2 fuel oil, 0.14 lb/MMBtu of actual heat input when burning natural gas, and 21.2 TPY at all times while the emissions unit is in operation.

## II. Operational Restrictions (continued)

2. The sulfur content of fuel oil burned in this emissions unit shall not exceed 0.3 percent by weight or a sulfur content that is sufficient to comply with the allowable SO<sub>2</sub> emission limitation of 0.33 pound of SO<sub>2</sub>/MMBtu of actual heat input.

Compliance with the above-mentioned specifications shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil on an as-received basis.

3. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.
4. The hours of operation when burning No. 2 fuel oil shall not exceed 7,225.5 hours per year.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the total quantity of No. 2 fuel oil (in gallons) and natural gas (in millions of cubic feet ) combusted in this emissions unit.
2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the name of the oil supplier, the total quantity of oil received, in gallons, and the permittee's or oil supplier's analyses for sulfur content and heat content.
3. For each day during which the permittee burns a fuel other than natural gas and/or No. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
4. The permittee shall maintain monthly records of the hours of operation when burning No. 2 fuel oil in this emissions unit.
5. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR, Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

## IV. Reporting Requirements

1. The permittee shall submit quarterly reports concerning the quality and quantity of No. 2 fuel oil received for burning in this emissions unit. These reports shall include the following information for the emissions unit for each calendar month during the calendar quarter:
  - a. the total quantity (gallons) of No. 2 oil received;
  - b. the average sulfur content (percent) of the No. 2 fuel oil received;
  - c. the average heat content (Btu/gallon) of the No. 2 fuel oil received;
  - d. the average SO<sub>2</sub> emission rate (lbs of SO<sub>2</sub>/MMBtu of actual heat input) from the No. 2 fuel oil received; and
  - e. the hours of operation using No. 2 fuel oil.

These quarterly reports shall be submitted by January 30, April 30, July 30 and October 30 of each year and shall cover the data obtained during the previous calendar quarters.

2. The permittee shall submit annual reports that specify the total NO<sub>x</sub> and SO<sub>2</sub> emissions, in tons. These reports shall be submitted by January 31 of each year and cover the previous year's operation.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

## V. Testing Requirements

1. Visible Particulate Emission Limitation:

If required, compliance shall be determined 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).

2. SO<sub>2</sub> Emission Limitations (when burning No. 2 fuel oil or natural gas, the potential annual SO<sub>2</sub> emissions are less than the allowables):

a. Compliance with the lb of SO<sub>2</sub>/MMBtu emission limitations specified in Section A.I.2 may be determined by the record keeping requirements in Section A.III.1 and the methods specified in OAC rule 3745-18-04(G).

b. If testing is required to demonstrate compliance with the allowable emission limitation of 0.33 lb of SO<sub>2</sub>/MMBtu of actual heat input, the testing shall be conducted using the following method:

Method 6 of 40 CFR, Part 60, Appendix A.

3. Nitrogen Oxides Emission Limitations:

a. Compliance with the lb/MMBtu NO<sub>x</sub> emission limitation specified in A.I.2. shall be demonstrated by the emission factor of 0.14 lb NO<sub>x</sub>/MMBtu of actual heat input when burning natural gas and 0.17 lb/MMBtu when burning No. 2 fuel oil. This emission factor was provided by the manufacturer based on stack testing of identical units

b. If testing is required to demonstrate compliance with the allowable emission limitation of 0.14 lb/MMBtu actual heat input when burning natural gas and 0.17 lb/MMBtu when burning No. 2 fuel oil, then testing shall be conducted using the following method:

Method 7 of 40 CFR Part 60, Appendix A.

c. Compliance with the annual emission limitation shall be determined using the emission factors in 3.a, the fuel usage data recorded for section A.III.1, the heat content data for the oil recorded for section A.III.2, and a heat content for natural gas of 1000 Btu/scf.

4. Compliance with the hours of operation limitation when burning No. 2 fuel oil shall be determined by the record keeping required in Section A.III.4.

## 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>
34.5 MMBtu/hr natural gas and No. 2 oil-fired boiler (No. 1A)	OAC rule 3745-31-05(A)(3) (PTI 14-4486)	See Section B.II.2.

**2. Additional Terms and Conditions**

- 2.a** PE and particulate matter emissions less than 10 microns in diameter (PM10) shall each not exceed 0.02 lb/MMBtu of actual heat input and 3.0 TPY.
- 2.b** Carbon monoxide (CO) emissions shall not exceed 0.1 lb/MMBtu of actual heat input and 15.1 TPY.
- 2.c** Volatile organic compound (VOC) emissions shall not exceed 0.006 lb/MMBtu of actual heat input and 0.9 TPY.

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

1. Compliance with the emission limitations specified in Section B.I.2 shall be determined by the emission factors found in AP-42, Chapter 1, External Combustion sources and the fuel usage record keeping requirements found in Section A.III.1.

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Boiler #1B (B024)  
**Activity Description:** Boiler #1B, 34.5 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>
34.5 MMBtu/hr natural gas and No. 2 oil-fired boiler (No. 1B)	OAC rule 3745-31-05(D) (PTI 14-4486)	See A.I.2.
	40 CFR, Part 60, Subpart Dc	The requirements of this rule also include compliance with the requirements of 40 CFR, Part 60, Subpart Dc and OAC rule 3745-17-10(B)(1). Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.
	OAC rule 3745-17-07(A)(1)	The visible particulate emission limitation specified in OAC rule 3745-17-07(A)(1) is less stringent than the visible emission limitation specified in 40 CFR, Part 60, Subpart Dc.
	OAC rule 3745-17-10(B)(1)	0.020 lb of particulate emissions (PE)/MMBtu of actual heat input

##### 2. Additional Terms and Conditions

- Nitrogen oxides (NOx) emissions shall not exceed 0.17 lb/MMBtu of actual heat input when burning No. 2 fuel oil and 0.14 lb/MMBtu of actual heat input when burning only natural gas. Combined annual NOx emissions from the burning of both fuels shall not exceed 21.2 tons per year (TPY).
- Sulfur dioxide (SO2) emissions shall not exceed 0.33 lb/MMBtu of actual heat input and 49.9 TPY\*.

\*The TPY emission limitation is based on the emissions unit's potential to emit. Therefore, no annual record keeping, reporting, or compliance measures are necessary.

##### II. Operational Restrictions

- The permittee shall maintain and operate a low-NOx burner capable of meeting the NOx emission limitations of 0.17 lb/MMBtu of actual heat input when burning No. 2 fuel oil, 0.14 lb/MMBtu of actual heat input when burning natural gas, and 21.2 TPY at all times while the emissions unit is in operation.

## II. Operational Restrictions (continued)

2. The sulfur content of fuel oil burned in this emissions unit shall not exceed 0.3 percent by weight or a sulfur content that is sufficient to comply with the allowable SO<sub>2</sub> emission limitation of 0.33 pound of SO<sub>2</sub>/MMBtu of actual heat input.

Compliance with the above-mentioned specifications shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil on an as-received basis.

3. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.
4. The hours of operation when burning No. 2 fuel oil shall not exceed 7,225.5 hours per year.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the total quantity of No. 2 fuel oil (in gallons) and natural gas (in millions of cubic feet ) combusted in this emissions unit.
2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the name of the oil supplier, the total quantity of oil received, in gallons, and the permittee's or oil supplier's analyses for sulfur content and heat content.
3. For each day during which the permittee burns a fuel other than natural gas and/or No. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
4. The permittee shall maintain monthly records of the hours of operation when burning No. 2 fuel oil in this emissions unit.
5. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR, Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

## IV. Reporting Requirements

1. The permittee shall submit quarterly reports concerning the quality and quantity of No. 2 fuel oil received for burning in this emissions unit. These reports shall include the following information for the emissions unit for each calendar month during the calendar quarter:
  - a. the total quantity (gallons) of No. 2 oil received;
  - b. the average sulfur content (percent) of the No. 2 fuel oil received;
  - c. the average heat content (Btu/gallon) of the No. 2 fuel oil received;
  - d. the average SO<sub>2</sub> emission rate (lbs of SO<sub>2</sub>/MMBtu of actual heat input) from the No. 2 fuel oil received; and
  - e. the hours of operation using No. 2 fuel oil.

These quarterly reports shall be submitted by January 30, April 30, July 30 and October 30 of each year and shall cover the data obtained during the previous calendar quarters.

2. The permittee shall submit annual reports that specify the total NO<sub>x</sub> and SO<sub>2</sub> emissions, in tons. These reports shall be submitted by January 31 of each year and cover the previous year's operation.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

## V. Testing Requirements

1. Visible Particulate Emission Limitation:

If required, compliance shall be determined 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).

2. SO<sub>2</sub> Emission Limitations (when burning No. 2 fuel oil or natural gas, the potential annual SO<sub>2</sub> emissions are less than the allowables):

a. Compliance with the lb of SO<sub>2</sub>/MMBtu emission limitations specified in Section A.I.2 may be determined by the record keeping requirements in Section A.III.1 and the methods specified in OAC rule 3745-18-04(G).

b. If testing is required to demonstrate compliance with the allowable emission limitation of 0.33 lb of SO<sub>2</sub>/MMBtu of actual heat input, the testing shall be conducted using the following method:

Method 6 of 40 CFR, Part 60, Appendix A.

3. Nitrogen Oxides Emission Limitations:

a. Compliance with the lb/MMBtu NO<sub>x</sub> emission limitation specified in A.I.2. shall be demonstrated by the emission factor of 0.14 lb NO<sub>x</sub>/MMBtu of actual heat input when burning natural gas and 0.17 lb/MMBtu when burning No. 2 fuel oil. This emission factor was provided by the manufacturer based on stack testing of identical units

b. If testing is required to demonstrate compliance with the allowable emission limitation of 0.14 lb/MMBtu actual heat input when burning natural gas and 0.17 lb/MMBtu when burning No. 2 fuel oil, then testing shall be conducted using the following method:

Method 7 of 40 CFR Part 60, Appendix A.

c. Compliance with the annual emission limitation shall be determined using the emission factors in 3.a, the fuel usage data recorded for section A.III.1, the heat content data for the oil recorded for section A.III.2, and a heat content for natural gas of 1000 Btu/scf.

4. Compliance with the hours of operation limitation when burning No. 2 fuel oil shall be determined by the record keeping required in Section A.III.4.

## 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>
34.5 MMBtu/hr natural gas and No. 2 oil-fired boiler (No. 1B)	OAC rule 3745-31-05(A)(3) (PTI 14-4486)	See Section B.II.2.

**2. Additional Terms and Conditions**

- 2.a** PE and particulate matter emissions less than 10 microns in diameter (PM10) shall each not exceed 0.02 lb/MMBtu of actual heat input and 3.0 TPY.
- 2.b** Carbon monoxide (CO) emissions shall not exceed 0.1 lb/MMBtu of actual heat input and 15.1 TPY.
- 2.c** Volatile organic compound (VOC) emissions shall not exceed 0.006 lb/MMBtu of actual heat input and 0.9 TPY.

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

1. Compliance with the emission limitations specified in Section B.I.2 shall be determined by the emission factors found in AP-42, Chapter 1, External Combustion sources and the fuel usage record keeping requirements found in Section A.III.1.

**VI. Miscellaneous Requirements**

None

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