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

05/03/04

CERTIFIED MAIL

RE: Final Title V Chapter 3745-77 permit

14-31-15-0060
General Electric Aircraft Engines, Evendale Plant
Robert J. Drexelius
One Neumann Way
Mail Drop N123
Cincinnati, OH 45215-1988

Dear Robert J. Drexelius:

Enclosed is the Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully.

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Review Appeals Commission within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. It is also requested by the Director that a copy of the appeal be served upon the Environmental Enforcement Section of the Office of the Attorney General. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, Ohio 43215

If you have any questions, please contact Hamilton County Dept. of Environmental Services.

Sincerely,

Michael W. Ahern

Michael W. Ahern
Permit Issuance and Data Management Section
Division of Air Pollution Control

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

State of Ohio Environmental Protection Agency

FINAL TITLE V PERMIT

Issue Date: **05/03/04**	Effective Date: **05/24/04**	Expiration Date: **05/24/09**

This document constitutes issuance of a Title V permit for Facility ID: 14-31-15-0060 to:
General Electric Aircraft Engines, Evendale Plant
One Neumann Way
Cincinnati, OH 45215

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

B001 (EA-004-A)
100 MBH Natural Gas-fired Boiler 10

B007 (EA-019-B)
142 MBH Dual-fuel Boiler 5

B008 (EA-019-C)
142 MBH Dual-fuel Boiler 6

B009 (EA-019-D)
142 MBH Dual-fuel Boiler 8

B010 (EA-004-B)
100 MBH Natural Gas-fired Boiler 9

B011 (EA-201)
ATF LM1500 A, Natural Gas-fired Turbine

B012 (EA-202)
ATF LM1500 B, Natural Gas-fired Turbine

B013 (EA-203)
ATF LM1500 C, Natural Gas-fired Turbine

B014 (EA-204)
ATF Waukesha A, Internal Combustion Engine

B015 (EA-205)
ATF Waukesha B, Internal Combustion Engine

B016 (EA-206)
ATF Waukesha C, Internal Combustion Engine

B017 (EA-207)
ATF Coen Air Preheater

B018 (EA-219)
Struther-Wells 28 MBH Air Preheater (Cell A6)

B020 (EA-217)
BS&B 37.5 MBH Natural Gas-fired Air Preheater B (South)

B024 (EA-218)
PetroChem 164 MBH Natural Gas-fired Air Preheater

B026 (EA-212)
Stahl-Farrier 87.5 MBH Air Preheater A

B027 (EA-213)
Stahl-Farrier 87.5 MBH Air Preheater B

B028 (EA-214)
Stahl-Farrier 87.5 MBH Air Preheater C

B029 (EA-215)
Stahl-Farrier 87.5 MBH Air Preheater D

B030 (EA-250)
80 MBH Air Preheater (Cell 41 Core)

B031 (EA-251)
80 MBH Air Preheater (Cell 41 Fan)

B042 (EA-381)
T-Thermal 21.7 MBH Preheater (Bldg. 304, Cell A5)

B043 (EA-212-A)
Stahl-Farrier 23.5 MBH Natural Gas-fired Air Preheater E

B044 (EA-212-B)
Stahl-Farrier 23.5 MBH Natural Gas-fired Air Preheater F

B045 (EA-375)
Coen 117 MBH Air Preheater (Cell 7)

B046 (EA-376)
Coen 117 MBH Air Preheater (Cell 6)

B047 (EA-377)
Coen 117 MBH Air Preheater (Cell 38)

B048 (EA-382)
Stahl-Farrier 185 MBH Natural Gas-fired Air Preheater G (Bldg. 303)

F003 (EA-005-A)
Engine and Component Test Cell 6

F004 (EA-005-F)
Engine and Component Test Cell 44

F005 (EA-005-E)
Engine and Component Test Cell 43

F006 (EA-005-C)
Engine and Component Test Cell 37

F007 (EA-005-D)
Engine and Component Test Cell 40

F008 (EA-005-B)
Engine and Component Test Cell 7

F009 (EA-015-G)
Engine and Component Test Cell 46

F010 (EA-232)
Engine and Component Test Cell 11

F013 (EA-220)
Engine and Component Test Cell A1

F014 (EA-235)
Engine and Component Test Cell A2

F015 (EA-221)
Engine and Component Test Cell A3

F016 (EA-222)
Engine and Component Test Cell 306

F017 (EA-223)
Engine and Component Test Cell 307

F018 (EA-224)
Engine and Component Test Cell 301

F019 (EA-210)
Engine and Component Test Cell A18

F020 (EA-211)
Engine and Component Test Cell A19

F021 (EA-373)
Engine and Component Test Cell A11

K017 (EA-010-G)
Coatings Application Booth

P013 (EA-015-A)
Engine and Component Test Cell 3

P014 (EA-015-E)
Engine and Component Test Cell 38

P015 (EA-015-D)
Engine and Component Test Cell 35

P016 (EA-015-C)
Engine and Component Test Cell 34

P017 (EA-015-H)
Engine and Component Test Cell 2

P018 (EA-015-I)
Engine and Component Test Cell 5

P019 (EA-015-B)
Engine and Component Test Cell 4

P020 (EA-015-F)
Engine and Component Test Cell 45

P075 (EA-057)
Engine and Component Test Cell A5

P188 (EA-199)
Robotic Spray Coatings Application System 3B

P231 (EA-271-A)
1600 kW Diesel Peak Shaving Generator 601

P234 (EA-271-B)
1600 kW Diesel Peak Shaving Generator 801

P235 (EA-271-C)

1600 kW Diesel Peak Shaving Generator 901

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 3745-77-08(E) 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

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, i.e., in Section A.III of Part III of this Title V permit, 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. **All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:**

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 OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted by January 31, April 30, July 31, and October 31 of each year in accordance with General Term and Condition A.1.c.ii below; and each report shall cover the previous calendar quarter.

In accordance with OAC rule 3745-15-06, a malfunction constitutes a violation of an emission limitation (or control requirement) and, therefore, is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) 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. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

ii. **Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.IV of Part III of this Title V permit or, in some cases, in Part II of this Title V permit, all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written reports shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. OAC rule 3745-77-07(A)(3)(c) is not fully satisfied until the permittee addresses all other deviations of the federally enforceable requirements specified in the permit.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement overrides the reporting requirements specified in this General Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this General Term and Condition.

See B.6 below if no deviations occurred during the quarter.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

iii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with General Term and Condition A.1.c.ii above shall be submitted in the following manner:**

Written reports that identify all other deviations of the federally enforceable requirements contained in this permit, including the monitoring, record keeping, and reporting requirements, which are not reported in accordance with General Term and Condition A.1.c.ii above shall be

submitted to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months.

In identifying each deviation, the permittee shall specify the federally enforceable 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 reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with General Term and Condition A.1.c.ii above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such 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))

v. 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))

2. Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance 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). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in General Term and Condition A.1.c.i above.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. Risk Management Plans

If applicable, the permittee shall 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"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

a. a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or

b. as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management 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. 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.
(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))

21. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification by the responsible official of the date on which the emissions unit was permanently shut down. Authorization to operate the affected part or activity of the stationary source shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

If an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any monitoring, record keeping, reporting, or testing requirements, applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

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 <u>Federally Enforceable</u> Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation 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 by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

a. where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in General Term and Condition A.1.c.ii;

b. where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; and

c. where the company's responsible official has certified that an emissions unit has been permanently shut down.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforceable Section

1. The permittee is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Engine Test Cells/Stands, 40 CFR Part 63, Subpart PPPPP. The Maximum Achievable Control Technology (MACT) standard applies to both existing and new engine test cells/stands for testing combustion turbine engines.

In accordance with 40 CFR Parts 63.9290(b) and 63.9290(d), existing engine test cells/stands and new or reconstructed engine test cells/stands located at a major source which is used exclusively for testing combustion turbine engines, respectively, do not have to meet the requirements of 40 CFR Part 63, Subpart PPPPP and of 40 CFR Part 63, Subpart A.

2. The permittee is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Combustion Turbines, 40 CFR Part 63, Subpart YYYY. However in accordance with 40 CFR 63.6090 (b) (4), existing Stationary Combustion Turbines do not have to meet the requirements of 40 CFR Part 63, Subpart YYYY and of 40 CFR Part 63, Subpart A.

3.a The permittee may be subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial/Commercial/Institutional Boilers and Process Heaters, 40 CFR 63 Subpart DDDDD and Stationary Reciprocating Internal Combustion Engines, 40 CFR 63 Subpart ZZZZ. U.S. EPA failed to promulgate these standards by May 15, 2002, the Maximum Achievable Control Technology (MACT) hammer date. In accordance with 40 CFR Part 63, Subpart B (40 CFR Parts 63.50 through 63.56), the permittee shall submit an application to revise the permit to include equivalent emission limitations as a result of a case-by-case MACT determination. The application shall be submitted in two parts. The deadline to submit the Part I application, as specified in 40 CFR Part 63.53, was May 15, 2002.

3.b If the final NESHAP standard is not promulgated by the deadline specified by U.S. EPA, the permittee shall submit the Part II application as specified in 40 CFR Part 63.53. The Part II application shall be submitted within 60 days after the deadline to promulgate the respective standard or by May 15, 2003, whichever is later. It must contain the following information, unless otherwise specified by future U.S. EPA regulations:

i. for a new affected source, the anticipated date of startup of operation;
ii. the hazardous air pollutants (HAPs) emitted by each affected source in the relevant source category and an estimated total uncontrolled and controlled emission rate for HAPs from the affected source;
iii. any existing federal, State, or local limitations or requirements applicable to the affected source;
iv. for each affected emission point or group of affected emission points, an identification of control technology in place;
v. information relevant to establishing the MACT floor (or MACT emission limitation), and, at the option of the permittee, a recommended MACT floor; and
vi. any other information reasonably needed by the permitting authority including, at the discretion of the permitting authority, information required pursuant to Subpart A of 40 CFR Part 63.

3.c The Part II application for a MACT determination may, but is not required to, contain the following information:

i. recommended emission limitations for the affected source and support information (the permittee may recommend a specific design, equipment, work practice, or operational standard, or combination thereof, as an emission limitation);
ii. a description of the control technologies that would be applied to meet the emission limitation, including technical information on the design, operation, size, estimated control efficiency and any other information deemed appropriate by the permitting authority, and identification of the affected sources to which the control technologies must be applied; and
iii. relevant parameters to be monitored and frequency of monitoring to demonstrate continuous compliance with the MACT emission limitation over the applicable reporting period.

A. State and Federally Enforceable Section (continued)

3.d If the NESHAP is promulgated before the Part II application is due for the relevant source category, the permittee may be subject to the rule as an existing major source with a compliance date as specified in the NESHAP. If subject, the permittee shall submit the following notifications:

i. Unless otherwise specified in the relevant Subpart, within 120 days after promulgation of a 40 CFR Part 63 Subpart to which the source is subject, the permittee shall submit an Initial Notification Report that contains the following information, in accordance with 40 CFR Part 63.9(b)(2):

(a) the name and mailing address of the permittee;

(b) the physical location of the source if it is different from the mailing address;

(c) identification of the relevant MACT standard and the source's compliance date;

(d) a brief description of the nature, design, size, and method of operation of the source, and an identification of the types of emission points within the affected source subject to the relevant standard and the types of HAPs emitted; and

(e) a statement confirming the facility is a major source for HAPs.

ii. Unless otherwise specified in the relevant Subpart, within 60 days following completion of any required compliance demonstration activity specified in the relevant Subpart, the permittee shall submit a notification of compliance status that contains the following information:

(a) the methods used to determine compliance;

(b) the results of any performance tests, visible emission observations, continuous monitoring systems performance evaluations, and/or other monitoring procedures or methods that were conducted;

(c) the methods that will be used for determining continuous compliance, including a description of monitoring and reporting requirements and test methods;

(d) the type and quantity of HAPs emitted by the source, reported in units and averaging times in accordance with the test methods specified in the relevant Subpart;

(e) an analysis demonstrating whether the affected source is a major source or an area source;

(f) a description of the air pollution control equipment or method for each emission point, including each control device or method for each HAP and the control efficiency (percent) for each control device or method; and

(g) a statement of whether or not the permittee has complied with the requirements of the relevant Subpart.

A. State and Federally Enforceable Section (continued)

4. For each new or existing cleaning operation subject to 40 CFR Part 63, Subpart GG, the permittee shall comply with the requirements below unless the cleaning solvent used is identified in 40 CFR 63.744 Table 1, or contains HAP or VOC below the de minimis levels specified in 40 CFR 63.741(f):

a. place cleaning solvent-laden cloth, paper, or any other absorbent applicators used for cleaning in bags or other closed containers upon completing their use. Ensure that these bags and containers are kept closed at all times except when depositing or removing these materials from the container. Use bags and containers of such design so as to contain the vapors of the cleaning solvent. Cotton tipped swabs used for very small cleaning operations are exempt from this requirement. [40 CFR 63.744(a)(1)]

b. store fresh and spent cleaning solvents, except semi-aqueous solvent cleaners, used in aerospace cleaning operations in closed containers. [40 CFR 63.744(a)(2)]

c. conduct the handling and transfer of cleaning solvents to or from enclosed systems, vats, waste containers, and other cleaning operation equipment that hold or store fresh or spent cleaning solvents in such a manner that minimizes spills. [40 CFR 63.744(a)(3)]

5. For each new or existing hand-wipe cleaning operation (excluding cleaning of spray gun equipment) subject to 40 CFR Part 63, Subpart GG, the permittee shall use cleaning solvents that meet one of the requirements specified in (a), (b) or (c) below. Solvent cleaning solutions that contain HAP and VOC below the de minimis levels specified in 40 CFR 63.741(f), and cleaning operations identified in 40 CFR 63.744(e) are exempt from these requirements:

a. meet one of the composition requirements in 40 CFR 63.744 Table 1 [40 CFR 63.744(b)(1)];

b. have a composite vapor pressure of 45 mm Hg (24.1 in. H2O) or less at 20 degrees C (68 degrees F) [40 CFR 63.744(b)(2)]; or

c. demonstrate that the volume of hand-wipe cleaning solvents used in cleaning operations has been reduced by at least 60 percent from a baseline adjusted for production. The baseline shall be established as part of an approved alternative plan administered by Ohio EPA. The alternative plan shall be submitted by Ohio EPA under section 112(l) of the Federal Clean Air Act and approved by the Administrator of the U.S. EPA, and shall demonstrate that the 60 percent volume reduction in cleaning solvents provides equivalent reductions to the requirements in paragraphs 4.a and 4.b above [40 CFR 63.744(b)(3)].

6. For each new or existing flush cleaning operation subject to 40 CFR Part 63, Subpart GG (excluding those in which a solvent identified in 40 CFR 63.744 Table 1, or a semi-aqueous cleaning solvent is used), the permittee shall empty the used cleaning solvent each time aerospace parts or assemblies, or components of a coating unit (with the exception of spray guns) are flush cleaned into an enclosed container or collection system that is kept closed when not in use or into a system with equivalent emission control [40 CFR 63.744(d)].

7. Except as provided for in 40 CFR 63.741(e), the permittee shall conduct the handling and transfer of waste containing HAP to or from containers, tanks, vats, vessels, and piping systems in such a manner that minimizes spills [40 CFR 63.748].

A. State and Federally Enforceable Section (continued)

8. For each new or existing cleaning operation subject to 40 CFR Part 63, Subpart GG, the permittee shall record the information listed below, as appropriate [40 CFR 63.752(b)]:

a. the name, vapor pressure, and documentation showing the organic HAP constituents of each cleaning solvent used for the affected cleaning operations at the facility [40 CFR 63.752(b)(1)];

b. for each cleaning solvent used in hand-wipe cleaning operations that complies with the composition requirements specified in 40 CFR 63.744(b)(1), or for semi-aqueous cleaning solvents used for flush cleaning operations:

i. the name of each cleaning solvent used [40 CFR 63.752(b)(2)(i)];
ii. all data and calculations that demonstrate that the cleaning solvent complies with one of the composition requirements [40 CFR 63.752(b)(2)(ii)]; and
iii. annual records of the volume of each solvent used, as determined from facility purchase records or usage records [40 CFR 63.752(b)(2)(iii)].

c. for each cleaning solvent used in hand-wipe cleaning operations that does not comply with the composition requirements in 40 CFR 63.744(b)(1), but does comply with the vapor pressure requirements in 40 CFR 63.744(b)(2):

i. the name of each cleaning solvent used [40 CFR 63.752(b)(3)(i)];
ii. the composite vapor pressure of each cleaning solvent used [40 CFR 63.752(b)(3)(ii)];
iii. all vapor pressure test results, data, and calculations used to determine the composite vapor pressure of each cleaning solvent [40 CFR 63.752(b)(3)(iii)]; and
iv. the amount (in gallons) of each cleaning solvent used each month at each operation [40 CFR 63.752(b)(3)(iv)].

d. for each cleaning solvent used for the exempt hand-wipe cleaning operations specified in 40 CFR 63.744(e) that does not conform to the vapor pressure or composition requirements of 40 CFR 63.744(b):

i. the identity and amount (in gallons) of each cleaning solvent used each month at each operation [40 CFR 63.752(b)(4)(i)]; and
ii. a list of the processes set forth in 40 CFR 63.744(e) to which the cleaning operation applies [40 CFR 63.752(b)(4)(ii)].

9. The permittee shall submit semi-annual reports, every 6 months from the date of the notification of compliance status, that identify:

a. any instance when a non-compliant cleaning solvent is used for a nonexempt hand-wipe cleaning operation [40 CFR 63.753(b)(1)(i)];

b. a list of any new cleaning solvents used for hand-wipe cleaning in the report period and their composite vapor pressures or notification that they comply with the composition requirements specified in 40 CFR 63.744(b)(1) [40 CFR 63.753(b)(1)(ii)];

c. if the operations have been in compliance with (a) and (b) above for the semi-annual period, a statement that the cleaning operations have been in compliance with these requirements. The permittee shall submit a statement of compliance signed by a responsible company official certifying that the facility is in compliance with all applicable requirements [40 CFR 63.753(b)(1)(v)].

10. The permittee shall maintain, service, repair, or dispose of equipment containing any class I or class II substance used as refrigerant in such equipment pursuant to the applicable provisions of 40 CFR Part 82.

11. All asbestos renovation and demolition activities conducted at this facility shall be performed in accordance with the applicable requirements specified in 40 CFR Part 61 and OAC Chapter 3745-20.

A. State and Federally Enforceable Section (continued)

12. 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.

13. Non-applicability determinations

Ohio EPA has determined that the requirements specifically identified in the following list are not applicable as the facility existed on the date of issuance of this permit.

List of Negative Declarations - Ohio and Federal Nonapplicable Requirements

Emissions Unit / Requirement
B017, B045, B046 and B047: OAC rule 3745-17-10

B001, B010, B017, B018, B020, B024, B026, B027, B028, B029, B030, B031, B042, B043, B044, B045, B046, B047 and B048: OAC rule 3745-21-07, OAC rule 3745-21-09, and OAC rule 3745-18-06.

F003, F004, F005, F006, F007, F008, F009, F010, F013, F014, F015, F016, F017, F018, F019, F020, F021, P013, P014, P015, P016, P017, P018, P019, P020, and P075: OAC rule 3745-17-10, OAC rule 3745-17-07(B), OAC rule 3745-17-08, OAC rule 3745-21-07, and 40 CFR Part 60, Subpart GG.

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

B003 - EA-092-K, three 2-MBH air preheaters (permit to install 14-2795);
B036 - EA-092-01, 3.55-MBH natural gas-fired boiler (permit to install 14-3226);
B037 - EA-092-02, 3.55-MBH natural gas-fired boiler (permit to install 14-3226);
F001 - EA-003-B, limestone unloading;
F002 - EA-089, roadways & parking lots;
F012 - EA-234, component test cell 54;
G004 - EA-047-A, gasoline/diesel dispensing facility (permit to install 14-1989);
K001 - EA-009-A, Sermetel spray booth;
K010 - EA-069, tool room support paint spray operation (permit to install 14-1114);
K019 - EA-010-H, Krylon adhesive cement spray booths (3) (permit to install 14-1766);
K022 - EA-010-P, release agent spray booth;
K024 - EA-258, central fluorescent penetrant inspection (permit to install 14-2537);
K026 - EA-272, table-top paint spray hood (permit to install 14-2871);
K028 - EA-092-39, model shop small paint booth (permit to install 14-3099);

A. State and Federally Enforceable Section (continued)

L062 - EA-011-W, cold degreaser (permit to install 14-1209);
L071 - EA-011-BB, M&I cold degreaser (permit to install 14-1364);
L079 - EA-011-FF, casings maintenance cold cleaner;
L080 - EA-011-GG, solvent spray booth (cell 19) (permit to install 14-2063);
L081 - EA-011-HH, cold degreaser;
L090 - EA-092-Y, cold cleaner, area II (permit to install 14-2795);
L098 - EA-092-Q, solvent spray booth (permit to install 14-2795);
L099 - EA-092-26, ultrasonic cleaner (permit to install 14-3099);
N002 - EA-001-B, classified materials incinerator (permit to install 14-0693);
P023 - EA-071, seven grinding benches (permit to install 14-1115);
P024 - EA-067, wax-melting oven (permit to install 14-1116);
P029 - EA-068, three laser drilling machines (permit to install 14-1117);
P038 - EA-062, CODEP/SNECMA vapor phase aluminiding;
P042 - EA-093, sanding & buffing machines (4);
P043 - EA-090, parts preparation for aluminiding;
P044 - EA-063, titanium cleaning line (permit to install 14-1095);
P046 - EA-083, RTV assembly (permit to install 14-1166);
P048 - EA-078, laser drilling lab (permit to install 14-1172);
P050 - EA-091, grind blast & erosion test;

P051 - EA-096, two grit blast cabinets;
P056 - EA-099, thermal spray room nr. 1;
P057 - EA-059, chemical vapor deposition (permit to install 14-1081);
P064 - EA-116, belt grinder for polishing;
P065 - EA-123 & EA-124, CNC grinding machines, nrs. 1 & 2 (permit to install 14-1229);
P067 - EA-115, belt grinder for polishing (permit to install 14-1226);
P072 - EA-122, probe room surface grinders (permit to install 14-1228);
P081 - EA-134, ceramic slurry spray booth & robotic gun (permit to install 14-1312);
P086 - EA-120, two walk-in grit blast booths;
P088 - EA-028-A, chemical cleaning lines (300A/B, 400, 600);
P095 - EA-135, MPED fluidized bed (permit to install 14-1322);
P097 - EA-094, vacuum plasma coating (permit to install 14-1166);
P100 - EA-139, automated plasma/thermal spray nr. 3 (permit to install 14-1368);
P102 - EA-072-A, large chemical line (8 lg. tanks) (permit to install 14-1128);
P103 - EA-028-L, process room salt bath (permit to install 14-1128);
P104 - EA-072-B, medium chemical line (10-12 med. tanks) (permit to install 14-1129);
P105 - EA-053-A, composite press & cure (permit to install 14-1414);
P107 - EA-137, ceramic tape-casting (permit to install 14-1363);
P108 - EA-146, metallography etching (permit to install 14-1477);
P109 - EA-124-A, cutter grind (14 CNC machines);

A. State and Federally Enforceable Section (continued)

P110 - EA-126-A, cutter grind (N);
P111 - EA-128-A, cutter grind (S, 40);
P113 - EA-145, grit blast (permit to install 14-1453);
P115 - EA-148, Rigidax wax-melting pot (permit to install 14-1503);
P117 - EA-150, heat treat/advanced heat treat lab (misc. equipment) (permit to install 14-1505);
P123 - EA-135-A, CVD fluidized bed/retort furnace (permit to install 14-1633);
P124 - EA-010-E, robotic spray coatings application prototype (permit to install 14-2141);
P125 - EA-028-O, sludge volume reducer (permit to install 14-1633);
P132 - EA-062-A, VPA Furnace GE1;
P137 - EA-153-D, grit blast cabinet (SPF/DB) (permit to install 14-1730);
P139 - EA-159, MPED bearings & fuels (torque/tension) lab (permit to install 14-1730);
P144 - EA-160, MPED R&D chemistry labs (permit to install 14-1817);
P145 - EA-164, ceramic slurry formulation (permit to install 14-1817);
P146 - EA-165, MPED shape-molding operation (permit to install 14-1817);
P147 - EA-163, composite surface treatment operation (permit to install 14-1817);
P148 - EA-166, five horizontal braze furnaces (SPF/DB) (permit to install 14-1880);

P149 - EA-167, ceramic/composites sintering operation (permit to install 14-1880);
P150 - EA-168, polymeric cure/ceramic composites lab (permit to install 14-1880);
P155 - EA-171, titanium benching/inspection area (SPF/DB) (permit to install 14-1913);
P157 - EA-174, plasma cleaner (permit to install 14-1981);
P158 - EA-151, powder classifiers (4) & retort furnaces (8) (permit to install 14-2299);
P159 - EA-152, large 2-roll mixing mill (permit to install 14-1981);
P160 - EA-152-A, small 2-roll lab mixing mill (permit to install 14-1981);
P162 - EA-176, abrasive waterjet machining center (permit to install 14-2016);
P163 - EA-177, automated grit blast system (permit to install 14-2042);
P166 - EA-181, four ceramic sintering operation furnaces (permit to install 14-2073);
P172 - EA-178, automated plasma spray system (permit to install 14-2086);
P179 - EA-021-J, 5-axis pneumatic shot-peening system (permit to install 14-2175);
P180 - EA-191, grit blast (permit to install 14-2175);
P184 - EA-197, plasma flame spray (permit to install 14-2194);
P186 - EA-153, grit blast (permit to install 14-2211);
P187 - EA-153-A, grit blast (permit to install 14-2211);
P192 - EA-231, M&I Newall grinder nr. 4 (permit to install 14-2236);
P193 - EA-244, abrasive cutoff & sanding (permit to install 14-2256);
P197 - EA-239, M&I chemical grinder D (permit to install 14-2256);
P200 - EA-243, walk-in grit blast cabinet;
P207 - EA-021-K, 4-axis pneumatic shot-peening system (permit to install 14-2310);
P210 - EA-252, vapor blast (permit to install 14-2413);
P215 - EA-259, groundwater pump & treat system (bldg. 800) (permit to install 14-2544);
P218 - EA-261, groundwater pump & treat system (bldg. 301/306) (permit to install 14-2544);

P221 - EA-062-B, vapor phase aluminiding furnace (GE2) (permit to install 14-2572);
P223 - EA-267, groundwater pump & treat system (air force plant 36) (permit to install 14-2675);
P224 - EA-072-D, small chemical line (~14 tanks) (permit to install 14-2826);
P225 - EA-268, titanium saw room (SPF/DB) (permit to install 14-2690);
P227 - EA-269-A, polymeric debulk operation (permit to install 14-2788);
P228 - EA-092-M, small carpentry shop (bldg. 204) (permit to install 14-2795);
P229 - EA-269-B, tool-cleaning spray booth (permit to install 14-2788);
P236 - EA-257-A, ASC 5x10 autoclave (permit to install 14-2858);
P238 - EA-092-04, two cure ovens (permit to install 14-3099);
P240 - EA-092-32, vapor hone & grit blast booths (permit to install 14-3099);
P245 - EA-092-17, JETS operation propane-fired ovens (permit to install 14-3226);
P247 - EA-257-C, ASC autoclave (permit to install 14-3400);
R009 - EA-010-O, composites spray booth;

A. State and Federally Enforceable Section (continued)

T012 - EA-017-08, 250,000-gallon fuel storage tank NFF-5 (permit to install 14-0734);
T020 - EA-017-BB, 20,000-gallon fiberglass UGST CFF-1 (permit to install 14-1390);
T021 - EA-017-CC, 20,000-gallon fiberglass UGST CFF-2 (permit to install 14-1390);
T022 - EA-017-DD, 20,000-gallon fiberglass UGST CFF-3 (permit to install 14-1390);
T023 - EA-017-EE, 20,000-gallon fiberglass UGST CFF-4 (permit to install 14-1390);
T037 - EA-017-SS, 1,000,000-gallon fuel oil AGST (425) (permit to install 14-1470);
T055 - EA-017-11, 15,000-gallon fuel UGST (421-1) (permit to install 14-2063);
T056 - EA-017-12, 15,000-gallon fuel UGST (421-2) (permit to install 14-2063);
T058 - EA-017-14, 2,500-gallon oil AGST (permit to install 14-2194);
T059 - EA-017-15, 1,500-gallon oil AGST (permit to install 14-2194);

Z035 - EA-298, air preheater (703 roof);
Z036 - EA-299, Stahl-Farrier air preheater (703 roof);
Z037 - EA-095-A, two emergency engines for storm water pumps;
Z038 - EA-095-B, emergency engine for a compressor;
Z039 - EA-095-C, emergency engine for security office;
Z040 - EA-095-D, three emergency engines for storm water pumps;
Z041 - EA-095-E, emergency generator for boiler interlocks;
Z042 - EA-095-F, emergency generator for boiler control room;
Z043 - EA-095-G, three emergency engines for storm water pumps;
Z044 - EA-095-H, emergency engines for wastewater pumps;
Z045 - EA-095-I, emergency generator for water plant lights;
Z046 - EA-095-J, emergency generator for computers;
Z056 - EA-062-D, VPA furnace (SUN1) (permit to install 14-2831, incorrectly listed as P132);
Z059 - EA-293, DMO cold cleaner;
Z079 - EA-433, cell 44 turbine frame air preheater;
Z080 - EA-434, 9.5 MBH cell 44 inflow bleed air preheater;
Z082 - EA-436, carpentry shop; and
Z083 - EA-437, box shop.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, and well as any emission limitations and/or control requirements contained within the identified permit to install for the emissions unit. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more applicable requirements contained in the SIP-approved versions of OAC Chapters 3745-17, 3745-18, and 3745-21.

B. State Only Enforceable Section

1. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirements or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

P001 - EA-002, melt furnace for Kirksite;
P045 - EA-117, ventilation hood for Schantz etch/spot weld;
P226 - EA-245-A, ASC small high-pressure autoclave;
P248 - EA-374, two MPED oxidation furnaces;
T001 - EA-017-N, 150,000-gallon fuel storage tank NFF-2;
T002 - EA-017-M, 150,000-gallon fuel storage tank NFF-1;
T003 - EA-017-L, 250,000-gallon fuel storage tank SFF-4;
T004 - EA-017-K, 567,000-gallon fuel storage tank SFF-3;
T005 - EA-017-J, 567,000-gallon fuel storage tank SFF-2;
T006 - EA-017-I, 567,000-gallon fuel storage tank SFF-1;
T007 - EA-017-P, 150,000-gallon fuel storage tank NFF-4;
T008 - EA-017-O, 150,000-gallon fuel storage tank NFF-3;
T102 - EA-300, 1,000-gallon methanol storage tank;
Z064 - EA-316, 6,000-gallon UGST for peak-shaving generators;
Z065 - EA-095-K, 30-kW emergency generator for computers (bldg. B2);
Z066 - EA-420, laser shock-peen;
Z067 - EA-421, aqueous washer;
Z068 - EA-422, aqueous washer;
Z069 - EA-423, aqueous cleaner;
Z070 - EA-424, high-speed component testing;
Z071 - EA-425, de minimis lubricant application;
Z072 - EA-426, water-drying oven;
Z073 - EA-427, autoclave composite curing;
Z074 - EA-428, de minimis R&D lab furnaces & equipment;
Z075 - EA-429, de minimis main coolant tanks;
Z076 - EA-430, de minimis packaging operation;
Z077 - EA-431, de minimis packaging operation; and
Z078 - EA-432, de minimis packaging operation.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: EA-004-A (B001)

Activity Description: 100 MBH Natural Gas-fired Boiler 10

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
100 MMBtu/hr natural gas-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. Additional Terms and Conditions

2.a This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

V. Testing Requirements (continued)

2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-019-B (B007)

Activity Description: 142 MBH Dual-fuel Boiler 5

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
142 MMBtu/hr natural gas/number 6 oil-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(C)(1)	0.13 lb PE/MMBtu of actual heat input
	OAC rule 3745-18-37(W)	1.52 lbs SO2/MMBtu of actual heat input
	OAC rule 3745-18-06(A)	The lbs SO2/MMBtu emission limitation above shall not apply to this emissions unit when burning only natural gas having a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet during any calendar day.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The quality of the oil received for burning in this emissions unit shall have a combination of heat content and sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.52 pounds of sulfur dioxide/MMBtu of actual heat input.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and 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 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(G)(2).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, 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(G)(2).)

2. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

3. When burning number six fuel oil, the permittee shall perform weekly visible 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. 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 visible emissions 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.

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

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from weekly to biweekly readings if the following conditions are met:

f. for 1 full quarter this emissions unit's visual observations indicate the emissions are representative of normal operations; and

g. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to weekly readings for this emissions unit if the emissions are not representative of normal operations. The permittee may again reduce the frequency of visual observations from weekly to biweekly after obtaining 1 full quarter of observations with visible emissions that are representative of normal operations for this emissions unit.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide 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 appropriate Ohio EPA District Office or local air agency) within 45 days after the deviation occurs.

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 when burning number six fuel oil and (b) describe any corrective actions taken to minimize or eliminate the 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.

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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. Emission Limitation:
0.13 lb PE/MMBtu of actual heat input

Applicable compliance method when burning only natural gas:
For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when burning number six fuel oil:
For the use of number six fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 10 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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 while firing number six fuel oil.

V. Testing Requirements (continued)

3. Emission Limitation:
1.52 lbs SO2/MMBtu of actual heat input

Applicable Compliance Method:
When firing number six fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

When firing natural gas, compliance with this emission limitation may 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, while firing number six fuel oil.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-019-C (B008)

Activity Description: 142 MBH Dual-fuel Boiler 6

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
142 MMBtu/hr natural gas/number 6 oil-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(C)(1)	0.13 lb PE/MMBtu of actual heat input
	OAC rule 3745-18-37(W)	1.52 lbs SO2/MMBtu of actual heat input The combined average operating rate for emissions units B008 and B009 shall not exceed 244 MMBtu/hr for any calendar day.
	OAC rule 3745-18-06(A)	The lbs SO2/MMBtu emission limitation above shall not apply to this emissions unit when burning only natural gas having a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet during any calendar day.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The quality of the oil received for burning in this emissions unit shall have a combination of heat content and sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.52 pounds of sulfur dioxide/MMBtu of actual heat input.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and 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 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(G)(2).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, 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(G)(2).)

2. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

3. When burning number six fuel oil, the permittee shall perform weekly visible 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. 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 visible emissions 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.

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

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from weekly to biweekly readings if the following conditions are met:

f. for 1 full quarter this emissions unit's visual observations indicate the emissions are representative of normal operations; and

g. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to weekly readings for this emissions unit if the emissions are not representative of normal operations. The permittee may again reduce the frequency of visual observations from weekly to biweekly after obtaining 1 full quarter of observations with visible emissions that are representative of normal operations for this emissions unit.

4. The permittee shall monitor and record the actual heat input, in MMBtu per hour, for B008 and B009, combined.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide 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 appropriate Ohio EPA District Office or local air agency) within 45 days after the deviation occurs.

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 when burning number six fuel oil and (b) describe any corrective actions taken to minimize or eliminate the 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. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the combined average operating rate of 244 MMBtu/hr for emissions units B008 and B009.

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. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

V. Testing Requirements (continued)

2. Emission Limitation:
0.13 lb PE/MMBtu of actual heat input

Applicable compliance method when burning only natural gas:
For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when burning number six fuel oil:
For the use of number six fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 10 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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 while firing number six fuel oil.

3. Emission Limitation:
1.52 lbs SO2/MMBtu of actual heat input

Applicable Compliance Method:
When firing number six fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

When firing natural gas, compliance with this emission limitation may 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, while firing number six fuel oil.

4. Compliance with the combined average operating rate of 244 MMBtu/hr for emissions units B008 and B009 shall be demonstrated by the record keeping in A.III.5.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-019-D (B009)

Activity Description: 142 MBH Dual-fuel Boiler 8

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
142 MMBtu/hr natural gas/number 6 oil-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(C)(1)	0.13 lb PE/MMBtu of actual heat input
	OAC rule 3745-18-37(W)	1.52 lbs SO2/MMBtu of actual heat input The combined average operating rate for emissions units B008 and B009 shall not exceed 244 MMBtu/hr for any calendar day.
	OAC rule 3745-18-06(A)	The lbs SO2/MMBtu emission limitation above shall not apply to this emissions unit when burning only natural gas having a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet during any calendar day.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The quality of the oil received for burning in this emissions unit shall have a combination of heat content and sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.52 pounds of sulfur dioxide/MMBtu of actual heat input.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and 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 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(G)(2).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, 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(G)(2).)

2. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

3. When burning number six fuel oil, the permittee shall perform weekly visible 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. 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 visible emissions 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.

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

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from weekly to biweekly readings if the following conditions are met:

f. for 1 full quarter this emissions unit's visual observations indicate the emissions are representative of normal operations; and

g. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to weekly readings for this emissions unit if the emissions are not representative of normal operations. The permittee may again reduce the frequency of visual observations from weekly to biweekly after obtaining 1 full quarter of observations with visible emissions that are representative of normal operations for this emissions unit.

4. The permittee shall monitor and record the actual heat input, in MMBtu per hour, for B008 and B009, combined.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide 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 appropriate Ohio EPA District Office or local air agency) within 45 days after the deviation occurs.

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 when burning number six fuel oil and (b) describe any corrective actions taken to minimize or eliminate the 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. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the combined average operating rate of 244 MMBtu/hr for emissions units B008 and B009.

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. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

V. Testing Requirements (continued)

2. Emission Limitation:
0.13 lb PE/MMBtu of actual heat input

Applicable compliance method when burning only natural gas:
For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when burning number six fuel oil:
For the use of number six fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 10 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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 while firing number six fuel oil.

3. Emission Limitation:
1.52 lbs SO2/MMBtu of actual heat input

Applicable Compliance Method:
When firing number six fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

When firing natural gas, compliance with this emission limitation may 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, while firing number six fuel oil.

4. Compliance with the combined average operating rate of 244 MMBtu/hr for emissions units B008 and B009 shall be demonstrated by the record keeping in A.III.5.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-004-B (B010)

Activity Description: 100 MBH Natural Gas-fired Boiler 9

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
100 MMBtu/hr natural gas-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. Additional Terms and Conditions

2.a This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

V. Testing Requirements (continued)

2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be demonstrated by dividing the AP-42, Table 1.4-2 (7/98) emission factor for natural gas combustion (1.9 lbs of particulates/MMcu.ft) by the conversion factor (1000 MMBtu/MMcu.ft).

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.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-201 (B011)

Activity Description: ATF LM1500 A, Natural Gas-fired Turbine

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
natural gas-fired LM1500 A turbine	OAC rule 3745-31-05(C) (PTI 14-05168)	See A.I.2.a and A.I.2.b below.
	OAC rule 3745-31-05(A)(3) (PTI 14-05168)	0.0104 lb PE/PM10/MMBtu 0.656 lb NOx/MMBtu 0.146 lb CO/MMBtu 0.0042 lb VOC/MMBtu 0.033 lb SO2/MMBtu The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 3745-31-05(D).
	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(4)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(F)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

2.a 15.67 TPY PE/PM10*
93.05 TPY NOx*
119.71 TPY CO*
41.15 TPY VOC*
33.39 TPY SO2*

*Based upon a rolling, 12-month summation. Combined emissions for emissions units B011, B012, B013, B014, B015 and B016.

2.b This emissions unit is physically limited to operating no more than three turbines at any one time. Notwithstanding this limitation, the permittee is authorized to utilize spare turbines as long as they are identical (i.e., same heat input rating) to the ones listed in the permit application and they comply with permit emission limitations.

2.c This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

1. The permittee, for emissions units B011 through B016, shall burn only natural gas and the maximum annual natural gas usage rate associated with those emissions units shall not exceed 260.9 million cubic feet, based upon a rolling, 12-month summation of the natural gas usage rates.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:

a. the quantity of natural gas fired, in million cubic feet in emissions units B011-B013 (turbines);

b. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011-B013 (turbines); and

c. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011, B012, B013, B014, B015 and B016, combined.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the rolling, 12-month PE/PM10, NOx, CO, VOC, and SO2 emission limitations and natural gas usage limitation specified in A.II.1 of this permit.

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.

2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE/PM10, NOx, CO, VOC, and SO2 emissions from emissions units B011, B012, B013, B014, B015 and B016 combined for the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

V. Testing Requirements

1. The permittee shall use the following equation to calculate the rolling, 12-month emissions for PE/PM-10, NOx, SO2, CO, and VOC for emissions units B011, B012, B013, B014, B015 and B016, combined using the emission factors specified below:

E = [(AxB1) + (CxB2)]/2000 lbs/ton

Where:
E = tons of pollutant for emissions units B011, B012, B013, B014, B015 and B016, combined, based on a rolling, 12-month summation of the monthly emissions
A = emission factor for LM 1500 turbine (as specified in PTI 14-05168, dated 12/06/2001)
B1 = actual natural gas usage for B011-B013 (turbines), in MM cu. ft/yr, based upon a rolling, 12-month summation
C = emission factor for Waukesha engine (as specified in PTI 14-05168, dated 12/06/2001)
B2 = actual natural gas usage for B014-B016 (engines), in MM cu. ft/yr, based upon a rolling, 12-month summation

The permittee may use alternate emission factors or heat content values with prior approval from the appropriate Ohio EPA District Office or local air agency. The permittee shall clearly indicate in the reports required in this permit if alternate emission factors or heat contents are used during any reporting period.

1.a Emission Limitations:
15.67 TPY PE/PM10 as a rolling, 12-month summation
0.0104 lb PE/PM10/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 10.39 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 9.5 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.b Emission Limitations:
93.05 TPY NOx as a rolling, 12-month summation
0.656 lb NOx/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 655.86 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 2270 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

1.c Emission Limitations:
119.71 TPY CO as a rolling, 12-month summation
0.146 lb CO/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 145.89 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 3510 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.d Emission Limitations:
41.15 TPY VOC as a rolling, 12-month summation
0.0042 lb VOC/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 4.16 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 358 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.e Emission Limitations:
33.39 TPY SO2 as a rolling, 12-month summation
0.033 lb SO2/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 33.25 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 0.588 lb/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-05168. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-202 (B012)

Activity Description: ATF LM1500 B, Natural Gas-fired Turbine

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
natural gas-fired LM1500 B turbine	OAC rule 3745-31-05(C) (PTI 14-05168)	See A.I.2.a and A.I.2.b below.
	OAC rule 3745-31-05(A)(3) (PTI 14-05168)	0.0104 lb PE/PM10/MMBtu 0.656 lb NOx/MMBtu 0.146 lb CO/MMBtu 0.0042 lb VOC/MMBtu 0.033 lb SO2/MMBtu The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 3745-31-05(D).
	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(4)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(F)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

2.a 15.67 TPY PE/PM10*
93.05 TPY NOx*
119.71 TPY CO*
41.15 TPY VOC*
33.39 TPY SO2*

*Based upon a rolling, 12-month summation. Combined emissions for emissions units B011, B012, B013, B014, B015 and B016.

2.b This emissions unit is physically limited to operating no more than three turbines at any one time. Notwithstanding this limitation, the permittee is authorized to utilize spare turbines as long as they are identical (i.e., same heat input rating) to the ones listed in the permit application and they comply with permit emission limitations.

2.c This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

1. The permittee, for emissions units B011 through B016, shall burn only natural gas and the maximum annual natural gas usage rate associated with those emissions units shall not exceed 260.9 million cubic feet, based upon a rolling, 12-month summation of the natural gas usage rates.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:

a. the quantity of natural gas fired, in million cubic feet in emissions units B011-B013 (turbines);

b. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011-B013 (turbines); and

c. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011, B012, B013, B014, B015 and B016, combined.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the rolling, 12-month PE/PM10, NOx, CO, VOC, and SO2 emission limitations and natural gas usage limitation specified in A.II.1 of this permit.

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.

2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE/PM10, NOx, CO, VOC, and SO2 emissions from emissions units B011, B012, B013, B014, B015 and B016 combined for the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

V. Testing Requirements

1. The permittee shall use the following equation to calculate the rolling, 12-month emissions for PE/PM-10, NOx, SO2, CO, and VOC for emissions units B011, B012, B013, B014, B015 and B016, combined using the emission factors specified below:

E = [(AxB1) + (CxB2)]/2000 lbs/ton

Where:
E = tons of pollutant for emissions units B011, B012, B013, B014, B015 and B016, combined, based on a rolling, 12-month summation of the monthly emissions
A = emission factor for LM 1500 turbine (as specified in PTI 14-05168, dated 12/06/2001)
B1 = actual natural gas usage for B011-B013 (turbines), in MM cu. ft/yr, based upon a rolling, 12-month summation
C = emission factor for Waukesha engine (as specified in PTI 14-05168, dated 12/06/2001)
B2 = actual natural gas usage for B014-B016 (engines), in MM cu. ft/yr, based upon a rolling, 12-month summation

The permittee may use alternate emission factors or heat content values with prior approval from the appropriate Ohio EPA District Office or local air agency. The permittee shall clearly indicate in the reports required in this permit if alternate emission factors or heat contents are used during any reporting period.

1.a Emission Limitations:
15.67 TPY PE/PM10 as a rolling, 12-month summation
0.0104 lb PE/PM10/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 10.39 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 9.5 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.b Emission Limitations:
93.05 TPY NOx as a rolling, 12-month summation
0.656 lb NOx/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 655.86 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 2270 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

1.c Emission Limitations:
119.71 TPY CO as a rolling, 12-month summation
0.146 lb CO/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 145.89 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 3510 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.d Emission Limitations:
41.15 TPY VOC as a rolling, 12-month summation
0.0042 lb VOC/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 4.16 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 358 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.e Emission Limitations:
33.39 TPY SO2 as a rolling, 12-month summation
0.033 lb SO2/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 33.25 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 0.588 lb/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-05168. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-203 (B013)

Activity Description: ATF LM1500 C, Natural Gas-fired Turbine

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
natural gas-fired LM1500 C turbine	OAC rule 3745-31-05(C) (PTI 14-05168)	See A.I.2.a and A.I.2.b below.
	OAC rule 3745-31-05(A)(3) (PTI 14-05168)	0.0104 lb PE/PM10/MMBtu 0.656 lb NOx/MMBtu 0.146 lb CO/MMBtu 0.0042 lb VOC/MMBtu 0.033 lb SO2/MMBtu The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 3745-31-05(D).
	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(4)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(F)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

2.a 15.67 TPY PE/PM10*
93.05 TPY NOx*
119.71 TPY CO*
41.15 TPY VOC*
33.39 TPY SO2*

*Based upon a rolling, 12-month summation. Combined emissions for emissions units B011, B012, B013, B014, B015 and B016.

2.b This emissions unit is physically limited to operating no more than three turbines at any one time. Notwithstanding this limitation, the permittee is authorized to utilize spare turbines as long as they are identical (i.e., same heat input rating) to the ones listed in the permit application and they comply with permit emission limitations.

2.c This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

1. The permittee, for emissions units B011 through B016, shall burn only natural gas and the maximum annual natural gas usage rate associated with those emissions units shall not exceed 260.9 million cubic feet, based upon a rolling, 12-month summation of the natural gas usage rates.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:

a. the quantity of natural gas fired, in million cubic feet in emissions units B011-B013 (turbines);

b. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011-B013 (turbines); and

c. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011, B012, B013, B014, B015 and B016, combined.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the rolling, 12-month PE/PM10, NOx, CO, VOC, and SO2 emission limitations and natural gas usage limitation specified in A.II.1 of this permit.

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.

2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE/PM10, NOx, CO, VOC, and SO2 emissions from emissions units B011, B012, B013, B014, B015 and B016 combined for the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

V. Testing Requirements

1. The permittee shall use the following equation to calculate the rolling, 12-month emissions for PE/PM-10, NOx, SO2, CO, and VOC for emissions units B011, B012, B013, B014, B015 and B016, combined using the emission factors specified below:

E = [(AxB1) + (CxB2)]/2000 lbs/ton

Where:
E = tons of pollutant for emissions units B011, B012, B013, B014, B015 and B016, combined, based on a rolling, 12-month summation of the monthly emissions
A = emission factor for LM 1500 turbine (as specified in PTI 14-05168, dated 12/06/2001)
B1 = actual natural gas usage for B011-B013 (turbines), in MM cu. ft/yr, based upon a rolling, 12-month summation
C = emission factor for Waukesha engine (as specified in PTI 14-05168, dated 12/06/2001)
B2 = actual natural gas usage for B014-B016 (engines), in MM cu. ft/yr, based upon a rolling, 12-month summation

The permittee may use alternate emission factors or heat content values with prior approval from the appropriate Ohio EPA District Office or local air agency. The permittee shall clearly indicate in the reports required in this permit if alternate emission factors or heat contents are used during any reporting period.

1.a Emission Limitations:
15.67 TPY PE/PM10 as a rolling, 12-month summation
0.0104 lb PE/PM10/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 10.39 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 9.5 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.b Emission Limitations:
93.05 TPY NOx as a rolling, 12-month summation
0.656 lb NOx/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 655.86 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 2270 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

1.c Emission Limitations:
119.71 TPY CO as a rolling, 12-month summation
0.146 lb CO/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 145.89 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 3510 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.d Emission Limitations:
41.15 TPY VOC as a rolling, 12-month summation
0.0042 lb VOC/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 4.16 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 358 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.e Emission Limitations:
33.39 TPY SO2 as a rolling, 12-month summation
0.033 lb SO2/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 33.25 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 0.588 lb/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-05168. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-204 (B014)

Activity Description: ATF Waukesha A, Internal Combustion Engine

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
4.72 MMBtu/hr natural gas-fired Waukesha engine A	OAC rule 3745-31-05(C) (PTI 14-05168)	See A.I.2.a and A.I.2.b below.
	OAC rule 3745-31-05(A)(3) (PTI 14-05168)	0.0095 lb PE/PM10/MMBtu 2.27 lbs NOx/MMBtu 3.51 lbs CO/MMBtu 0.36 lb VOC/MMBtu 0.0006 lb SO2/MMBtu The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 3745-31-05(D).
	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(5)(a)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(G)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

2.a 15.67 TPY PE/PM10*
93.05 TPY NOx*
119.71 TPY CO*
41.15 TPY VOC*
33.39 TPY SO2*

*Based upon a rolling, 12-month summation. Combined emissions for emissions units B011, B012, B013, B014, B015 and B016.

2.b This emissions unit is physically limited to operating no more than three engines at any one time. Notwithstanding this limitation, the permittee is authorized to utilize spare engines as long as they are identical (i.e., same heat input rating) to the ones listed in the permit application and they comply with permit emission limitations.

2.c This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

1. The permittee, for emissions units B011 through B016, shall burn only natural gas and the maximum annual natural gas usage rate associated with those emissions units shall not exceed 260.9 million cubic feet, based upon a rolling, 12-month summation of the natural gas usage rates.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:

a. the quantity of natural gas fired, in million cubic feet in emissions units B014-B016 (engines);

b. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B014-B016 (engines); and

c. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011, B012, B013, B014, B015 and B016, combined.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the rolling, 12-month PE/PM10, NOx, CO, VOC, and SO2 emission limitations and natural gas usage limitation specified in A.II.1 of this permit.

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.

2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE/PM10, NOx, CO, VOC, and SO2 emissions from emissions units B011, B012, B013, B014, B015 and B016 combined for the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

V. Testing Requirements

1. The permittee shall use the following equation to calculate the rolling, 12-month emissions for PE/PM-10, NOx, SO2, CO, and VOC for emissions units B011, B012, B013, B014, B015 and B016, combined using the emission factors specified below:

E = [(AxB1) + (CxB2)]/2000 lbs/ton

Where:
E = tons of pollutant for emissions units B011, B012, B013, B014, B015 and B016, combined, based on a rolling, 12-month summation of the monthly emissions
A = emission factor for LM 1500 turbine (as specified in PTI 14-05168, dated 12/06/2001)
B1 = actual natural gas usage for B011-B013 (turbines), in MM cu. ft/yr, based upon a rolling, 12-month summation
C = emission factor for Waukesha engine (as specified in PTI 14-05168, dated 12/06/2001)
B2 = actual natural gas usage for B014-B016 (engines), in MM cu. ft/yr, based upon a rolling, 12-month summation

The permittee may use alternate emission factors or heat content values with prior approval from the appropriate Ohio EPA District Office or local air agency. The permittee shall clearly indicate in the reports required in this permit if alternate emission factors or heat contents are used during any reporting period.

1.a Emission Limitations:
15.67 TPY PE/PM10 as a rolling, 12-month summation
0.0095 lb PE/PM10/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 10.39 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 9.5 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.b Emission Limitations:
93.05 TPY NOx as a rolling, 12-month summation
2.27 lbs NOx/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 655.86 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 2270 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

1.c Emission Limitations:
119.71 TPY CO as a rolling, 12-month summation
3.51 lbs CO/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 145.89 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 3510 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.d Emission Limitations:
41.15 TPY VOC as a rolling, 12-month summation
0.36 lb VOC/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 4.16 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 358 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.e Emission Limitations:
33.39 TPY SO2 as a rolling, 12-month summation
0.0006 lb SO2/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 33.25 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 0.588 lb/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-05168. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-205 (B015)

Activity Description: ATF Waukesha B, Internal Combustion Engine

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
4.72 MMBtu/hr natural gas-fired Waukesha engine B	OAC rule 3745-31-05(C) (PTI 14-05168)	See A.I.2.a and A.I.2.b below.
	OAC rule 3745-31-05(A)(3) (PTI 14-05168)	0.0095 lb PE/PM10/MMBtu 2.27 lbs NOx/MMBtu 3.51 lbs CO/MMBtu 0.36 lb VOC/MMBtu 0.0006 lb SO2/MMBtu The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 3745-31-05(D).
	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(5)(a)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(G)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

2.a 15.67 TPY PE/PM10*
93.05 TPY NOx*
119.71 TPY CO*
41.15 TPY VOC*
33.39 TPY SO2*

*Based upon a rolling, 12-month summation. Combined emissions for emissions units B011, B012, B013, B014, B015 and B016.

2.b This emissions unit is physically limited to operating no more than three engines at any one time. Notwithstanding this limitation, the permittee is authorized to utilize spare engines as long as they are identical (i.e., same heat input rating) to the ones listed in the permit application and they comply with permit emission limitations.

2.c This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

1. The permittee, for emissions units B011 through B016, shall burn only natural gas and the maximum annual natural gas usage rate associated with those emissions units shall not exceed 260.9 million cubic feet, based upon a rolling, 12-month summation of the natural gas usage rates.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:

a. the quantity of natural gas fired, in million cubic feet in emissions units B014-B016 (engines);

b. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B014-B016 (engines); and

c. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011, B012, B013, B014, B015 and B016, combined.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the rolling, 12-month PE/PM10, NOx, CO, VOC, and SO2 emission limitations and natural gas usage limitation specified in A.II.1 of this permit.

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.

2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE/PM10, NOx, CO, VOC, and SO2 emissions from emissions units B011, B012, B013, B014, B015 and B016 combined for the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

V. Testing Requirements

1. The permittee shall use the following equation to calculate the rolling, 12-month emissions for PE/PM-10, NOx, SO2, CO, and VOC for emissions units B011, B012, B013, B014, B015 and B016, combined using the emission factors specified below:

E = [(AxB1) + (CxB2)]/2000 lbs/ton

Where:
E = tons of pollutant for emissions units B011, B012, B013, B014, B015 and B016, combined, based on a rolling, 12-month summation of the monthly emissions
A = emission factor for LM 1500 turbine (as specified in PTI 14-05168, dated 12/06/2001)
B1 = actual natural gas usage for B011-B013 (turbines), in MM cu. ft/yr, based upon a rolling, 12-month summation
C = emission factor for Waukesha engine (as specified in PTI 14-05168, dated 12/06/2001)
B2 = actual natural gas usage for B014-B016 (engines), in MM cu. ft/yr, based upon a rolling, 12-month summation

The permittee may use alternate emission factors or heat content values with prior approval from the appropriate Ohio EPA District Office or local air agency. The permittee shall clearly indicate in the reports required in this permit if alternate emission factors or heat contents are used during any reporting period.

1.a Emission Limitations:
15.67 TPY PE/PM10 as a rolling, 12-month summation
0.0095 lb PE/PM10/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 10.39 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 9.5 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.b Emission Limitations:
93.05 TPY NOx as a rolling, 12-month summation
2.27 lbs NOx/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 655.86 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 2270 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

1.c Emission Limitations:
119.71 TPY CO as a rolling, 12-month summation
3.51 lbs CO/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 145.89 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 3510 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.d Emission Limitations:
41.15 TPY VOC as a rolling, 12-month summation
0.36 lb VOC/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 4.16 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 358 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.e Emission Limitations:
33.39 TPY SO2 as a rolling, 12-month summation
0.0006 lb SO2/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 33.25 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 0.588 lb/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-05168. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-206 (B016)

Activity Description: ATF Waukesha C, Internal Combustion Engine

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
4.72 MMBtu/hr natural gas-fired Waukesha engine C	OAC rule 3745-31-05(C) (PTI 14-05168)	See A.I.2.a and A.I.2.b below.
	OAC rule 3745-31-05(A)(3) (PTI 14-05168)	0.0095 lb PE/PM10/MMBtu 2.27 lbs NOx/MMBtu 3.51 lbs CO/MMBtu 0.36 lb VOC/MMBtu 0.0006 lb SO2/MMBtu The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 3745-31-05(D).
	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(5)(a)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(G)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

2.a 15.67 TPY PE/PM10*
93.05 TPY NOx*
119.71 TPY CO*
41.15 TPY VOC*
33.39 TPY SO2*

*Based upon a rolling, 12-month summation. Combined emissions for emissions units B011, B012, B013, B014, B015 and B016.

2.b This emissions unit is physically limited to operating no more than three engines at any one time. Notwithstanding this limitation, the permittee is authorized to utilize spare engines as long as they are identical (i.e., same heat input rating) to the ones listed in the permit application and they comply with permit emission limitations.

2.c This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

1. The permittee, for emissions units B011 through B016, shall burn only natural gas and the maximum annual natural gas usage rate associated with those emissions units shall not exceed 260.9 million cubic feet, based upon a rolling, 12-month summation of the natural gas usage rates.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:

a. the quantity of natural gas fired, in million cubic feet in emissions units B014-B016 (engines);

b. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B014-B016 (engines); and

c. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011, B012, B013, B014, B015 and B016, combined.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the rolling, 12-month PE/PM10, NOx, CO, VOC, and SO2 emission limitations and natural gas usage limitation specified in A.II.1 of this permit.

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.

2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE/PM10, NOx, CO, VOC, and SO2 emissions from emissions units B011, B012, B013, B014, B015 and B016 combined for the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

V. Testing Requirements

1. The permittee shall use the following equation to calculate the rolling, 12-month emissions for PE/PM-10, NOx, SO2, CO, and VOC for emissions units B011, B012, B013, B014, B015 and B016, combined using the emission factors specified below:

E = [(AxB1) + (CxB2)]/2000 lbs/ton

Where:
E = tons of pollutant for emissions units B011, B012, B013, B014, B015 and B016, combined, based on a rolling, 12-month summation of the monthly emissions
A = emission factor for LM 1500 turbine (as specified in PTI 14-05168, dated 12/06/2001)
B1 = actual natural gas usage for B011-B013 (turbines), in MM cu. ft/yr, based upon a rolling, 12-month summation
C = emission factor for Waukesha engine (as specified in PTI 14-05168, dated 12/06/2001)
B2 = actual natural gas usage for B014-B016 (engines), in MM cu. ft/yr, based upon a rolling, 12-month summation

The permittee may use alternate emission factors or heat content values with prior approval from the appropriate Ohio EPA District Office or local air agency. The permittee shall clearly indicate in the reports required in this permit if alternate emission factors or heat contents are used during any reporting period.

1.a Emission Limitations:
15.67 TPY PE/PM10 as a rolling, 12-month summation
0.0095 lb PE/PM10/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 10.39 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 9.5 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.b Emission Limitations:
93.05 TPY NOx as a rolling, 12-month summation
2.27 lbs NOx/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 655.86 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 2270 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

1.c Emission Limitations:
119.71 TPY CO as a rolling, 12-month summation
3.51 lbs CO/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 145.89 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 3510 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.d Emission Limitations:
41.15 TPY VOC as a rolling, 12-month summation
0.36 lb VOC/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 4.16 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 358 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

1.e Emission Limitations:
33.39 TPY SO2 as a rolling, 12-month summation
0.0006 lb SO2/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 33.25 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 0.588 lb/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-05168. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-207 (B017)

Activity Description: ATF Coen Air Preheater

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
125 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. Additional Terms and Conditions

2.a This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

V. Testing Requirements (continued)

2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-219 (B018)

Activity Description: Struther-Wells 28 MBH Air Preheater (Cell A6)

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
28 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. Additional Terms and Conditions

2.a This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

V. Testing Requirements (continued)

2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-217 (B020)

Activity Description: BS&B 37.5 MBH Natural Gas-fired Air Preheater B (South)

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
37.5 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(A)(3) (PTI 14-2236)	0.02 lb PE/MMBtu of actual heat input* 0.14 lb NOx/MMBtu of actual heat input* 0.20 lb SO2/MMBtu of actual heat input* 0.04 lb CO/MMBtu of actual heat input* 0.006 lb OC/MMBtu of actual heat input* This lb(s)/MMBtu emission limitation is based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation. See A.II.1. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	None, see A.I.2.a below.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-23-06(B)	None, see A.I.2.b below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2236.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2236.

2.c This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

1. The annual operating hours for this emissions unit shall not exceed 1100 hrs/yr.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the operating hours for this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit annual reports that specify the annual operating hours for this emissions unit. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

V. Testing Requirements

1. Emission Limitations:
0.02 lb PE/MMBtu of actual heat input
0.14 lb NOx/MMBtu of actual heat input
0.20 lb SO2/MMBtu of actual heat input
0.04 lb CO/MMBtu of actual heat input
0.006 lb OC/MMBtu of actual heat input

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

2. Compliance with the annual operating hours limitation shall be based upon the record keeping in A.III.1.

V. Testing Requirements (continued)

3. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2236. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-218 (B024)

Activity Description: PetroChem 164 MBH Natural Gas-fired Air Preheater

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
164 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. Additional Terms and Conditions

2.a This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

V. Testing Requirements (continued)

2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-212 (B026)

Activity Description: Stahl-Farrier 87.5 MBH Air Preheater A

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
87.5 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(C) (PTI 14-2332)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-2332)	0.0006 lb SO2/MMBtu of actual heat input* 0.17 lb CO/MMBtu of actual heat input* 0.006 lb OC/MMBtu of actual heat input* 0.14 lb NOx/MMBtu of actual heat input* 0.020 lb PE/MMBtu of actual heat input* This lb(s)/MMBtu emission limitation is based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation. The requirements of this rule also include compliance with the requirements of OAC rule OAC rule 3745-31-05(D), 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-21-08(B)	None, see A.I.2.b below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.

2. Additional Terms and Conditions

2.a The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:

1.08 TPY PE, based on a rolling, 12-month summation;
0.04 TPY SO2, based on a rolling, 12-month summation;
1.2 TPY CO, based on a rolling, 12-month summation;
0.32 TPY OC, based on a rolling, 12-month summation; and
7.6 TPY NOX, based on a rolling, 12-month summation.

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.

2.d This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

1. The total natural gas usage for this emissions unit shall not exceed 1,300,000 lbs per year, based on a rolling, 12-month summation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:

a. the total natural gas usage, in lbs, for this emissions unit; and

b. the total rolling, twelve-month summation of the natural gas usage, in lbs, for this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month natural gas usage limitation for this emissions unit.

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.

IV. Reporting Requirements (continued)

2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE, SO2, CO, OC and NOx emissions from emissions units B026, B027, B028, and B029, combined, for each month during the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

V. Testing Requirements

1. Emission Limitations:
The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:

1.08 TPY PE, based on a rolling, 12-month summation;
0.04 TPY SO2, based on a rolling, 12-month summation;
1.2 TPY CO, based on a rolling, 12-month summation;
0.32 TPY OC, based on a rolling, 12-month summation; and
7.6 TPY NOX, based on a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation of the natural gas usage, in lbs, for emissions units B026 - B029, combined (from section A.III.1) by the conversion factor of 24.06 cubic feet natural gas/lb, multiplying by the appropriate pollutant emission factors (lb/MMBtu) below*, multiplying by the conversion factor for natural gas of 1000 Btu/MMcu. ft, and dividing by 2000 lbs/ton.

*emission factors
PE: 1.9 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
SO2: 0.6 lb/MMBtu (AP-42, Table 1.4-2, 7/98)
OC: 5.5 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
NOx: 83 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)
CO: 61 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)

2. Compliance with the rolling, 12-month natural gas usage limitation for this emissions unit shall be based upon the record keeping in A.III.1.

3. Emission Limitations:
0.0006 lb SO2/MMBtu of actual heat input
0.17 lb CO/MMBtu of actual heat input
0.006 lb OC/MMBtu of actual heat input
0.14 lb NOx/MMBtu of actual heat input
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

4. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2332. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-213 (B027)

Activity Description: Stahl-Farrier 87.5 MBH Air Preheater B

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
87.5 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(C) (PTI 14-2332)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-2332)	0.0006 lb SO2/MMBtu of actual heat input* 0.17 lb CO/MMBtu of actual heat input* 0.006 lb OC/MMBtu of actual heat input* 0.14 lb NOx/MMBtu of actual heat input* 0.020 lb PE/MMBtu of actual heat input* This lb(s)/MMBtu emission limitation is based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation. The requirements of this rule also include compliance with the requirements of OAC rule OAC rule 3745-31-05(D), 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-21-08(B)	None, see A.I.2.b below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.

2. Additional Terms and Conditions

2.a The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:

1.08 TPY PE, based on a rolling, 12-month summation;
0.04 TPY SO2, based on a rolling, 12-month summation;
1.2 TPY CO, based on a rolling, 12-month summation;
0.32 TPY OC, based on a rolling, 12-month summation; and
7.6 TPY NOX, based on a rolling, 12-month summation.

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.

2.d This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

1. The total natural gas usage for this emissions unit shall not exceed 1,300,000 lbs per year, based on a rolling, 12-month summation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:

a. the total natural gas usage, in lbs, for this emissions unit; and

b. the total rolling, twelve-month summation of the natural gas usage, in lbs, for this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month natural gas usage limitation for this emissions unit.

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.

IV. Reporting Requirements (continued)

2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE, SO2, CO, OC and NOx emissions from emissions units B026, B027, B028, and B029, combined, for each month during the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

V. Testing Requirements

1. Emission Limitations:
The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:

1.08 TPY PE, based on a rolling, 12-month summation;
0.04 TPY SO2, based on a rolling, 12-month summation;
1.2 TPY CO, based on a rolling, 12-month summation;
0.32 TPY OC, based on a rolling, 12-month summation; and
7.6 TPY NOX, based on a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation of the natural gas usage, in lbs, for emissions units B026 - B029, combined (from section A.III.1) by the conversion factor of 24.06 cubic feet natural gas/lb, multiplying by the appropriate pollutant emission factors (lb/MMBtu) below*, multiplying by the conversion factor for natural gas of 1000 Btu/MMcu. ft, and dividing by 2000 lbs/ton.

*emission factors
PE: 1.9 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
SO2: 0.6 lb/MMBtu (AP-42, Table 1.4-2, 7/98)
OC: 5.5 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
NOx: 83 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)
CO: 61 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)

2. Compliance with the rolling, 12-month natural gas usage limitation for this emissions unit shall be based upon the record keeping in A.III.1.

3. Emission Limitations:
0.0006 lb SO2/MMBtu of actual heat input
0.17 lb CO/MMBtu of actual heat input
0.006 lb OC/MMBtu of actual heat input
0.14 lb NOx/MMBtu of actual heat input
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

4. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2332. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-214 (B028)

Activity Description: Stahl-Farrier 87.5 MBH Air Preheater C

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
87.5 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(C) (PTI 14-2332)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-2332)	0.0006 lb SO2/MMBtu of actual heat input* 0.17 lb CO/MMBtu of actual heat input* 0.006 lb OC/MMBtu of actual heat input* 0.14 lb NOx/MMBtu of actual heat input* 0.020 lb PE/MMBtu of actual heat input* This lb(s)/MMBtu emission limitation is based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation. The requirements of this rule also include compliance with the requirements of OAC rule OAC rule 3745-31-05(D), 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-21-08(B)	None, see A.I.2.b below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.

2. Additional Terms and Conditions

2.a The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:

1.08 TPY PE, based on a rolling, 12-month summation;
0.04 TPY SO2, based on a rolling, 12-month summation;
1.2 TPY CO, based on a rolling, 12-month summation;
0.32 TPY OC, based on a rolling, 12-month summation; and
7.6 TPY NOX, based on a rolling, 12-month summation.

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.

2.d This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

1. The total natural gas usage for this emissions unit shall not exceed 1,300,000 lbs per year, based on a rolling, 12-month summation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:

a. the total natural gas usage, in lbs, for this emissions unit; and

b. the total rolling, twelve-month summation of the natural gas usage, in lbs, for this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month natural gas usage limitation for this emissions unit.

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.

IV. Reporting Requirements (continued)

2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE, SO2, CO, OC and NOx emissions from emissions units B026, B027, B028, and B029, combined, for each month during the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

V. Testing Requirements

1. Emission Limitations:
The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:

1.08 TPY PE, based on a rolling, 12-month summation;
0.04 TPY SO2, based on a rolling, 12-month summation;
1.2 TPY CO, based on a rolling, 12-month summation;
0.32 TPY OC, based on a rolling, 12-month summation; and
7.6 TPY NOX, based on a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation of the natural gas usage, in lbs, for emissions units B026 - B029, combined (from section A.III.1) by the conversion factor of 24.06 cubic feet natural gas/lb, multiplying by the appropriate pollutant emission factors (lb/MMBtu) below*, multiplying by the conversion factor for natural gas of 1000 Btu/MMcu. ft, and dividing by 2000 lbs/ton.

*emission factors
PE: 1.9 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
SO2: 0.6 lb/MMBtu (AP-42, Table 1.4-2, 7/98)
OC: 5.5 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
NOx: 83 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)
CO: 61 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)

2. Compliance with the rolling, 12-month natural gas usage limitation for this emissions unit shall be based upon the record keeping in A.III.1.

3. Emission Limitations:
0.0006 lb SO2/MMBtu of actual heat input
0.17 lb CO/MMBtu of actual heat input
0.006 lb OC/MMBtu of actual heat input
0.14 lb NOx/MMBtu of actual heat input
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

4. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2332. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-215 (B029)

Activity Description: Stahl-Farrier 87.5 MBH Air Preheater D

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
87.5 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(C) (PTI 14-2332)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-2332)	0.0006 lb SO2/MMBtu of actual heat input* 0.17 lb CO/MMBtu of actual heat input* 0.006 lb OC/MMBtu of actual heat input* 0.14 lb NOx/MMBtu of actual heat input* 0.020 lb PE/MMBtu of actual heat input* This lb(s)/MMBtu emission limitation is based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation. The requirements of this rule also include compliance with the requirements of OAC rule OAC rule 3745-31-05(D), 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-21-08(B)	None, see A.I.2.b below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.

2. Additional Terms and Conditions

2.a The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:

1.08 TPY PE, based on a rolling, 12-month summation;
0.04 TPY SO2, based on a rolling, 12-month summation;
1.2 TPY CO, based on a rolling, 12-month summation;
0.32 TPY OC, based on a rolling, 12-month summation; and
7.6 TPY NOX, based on a rolling, 12-month summation.

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.

2.d This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

1. The total natural gas usage for this emissions unit shall not exceed 1,300,000 lbs per year, based on a rolling, 12-month summation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:

a. the total natural gas usage, in lbs, for this emissions unit; and

b. the total rolling, twelve-month summation of the natural gas usage, in lbs, for this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month natural gas usage limitation for this emissions unit.

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.

IV. Reporting Requirements (continued)

2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE, SO2, CO, OC and NOx emissions from emissions units B026, B027, B028, and B029, combined, for each month during the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

V. Testing Requirements

1. Emission Limitations:
The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:

1.08 TPY PE, based on a rolling, 12-month summation;
0.04 TPY SO2, based on a rolling, 12-month summation;
1.2 TPY CO, based on a rolling, 12-month summation;
0.32 TPY OC, based on a rolling, 12-month summation; and
7.6 TPY NOX, based on a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation of the natural gas usage, in lbs, for emissions units B026 - B029, combined (from section A.III.1) by the conversion factor of 24.06 cubic feet natural gas/lb, multiplying by the appropriate pollutant emission factors (lb/MMBtu) below*, multiplying by the conversion factor for natural gas of 1000 Btu/MMcu. ft, and dividing by 2000 lbs/ton.

*emission factors
PE: 1.9 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
SO2: 0.6 lb/MMBtu (AP-42, Table 1.4-2, 7/98)
OC: 5.5 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
NOx: 83 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)
CO: 61 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)

2. Compliance with the rolling, 12-month natural gas usage limitation for this emissions unit shall be based upon the record keeping in A.III.1.

3. Emission Limitations:
0.0006 lb SO2/MMBtu of actual heat input
0.17 lb CO/MMBtu of actual heat input
0.006 lb OC/MMBtu of actual heat input
0.14 lb NOx/MMBtu of actual heat input
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

4. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2332. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-250 (B030)

Activity Description: 80 MBH Air Preheater (Cell 41 Core)

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
80 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. Additional Terms and Conditions

2.a This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

V. Testing Requirements (continued)

2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-251 (B031)

Activity Description: 80 MBH Air Preheater (Cell 41 Fan)

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
80 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. Additional Terms and Conditions

2.a This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

V. Testing Requirements (continued)

2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-381 (B042)

Activity Description: T-Thermal 21.7 MBH Preheater (Bldg. 304, Cell A5)

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
21.7 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(A)(3) (PTI 14-3714)	0.006 lb PE/MMBtu of actual heat input* and 0.59 TPY* 0.14 lb NOx/MMBtu of actual heat input* and 13.31 TPY* 0.0006 lb SO2/MMBtu of actual heat input* and 0.06 TPY* 0.035 lb CO/MMBtu of actual heat input* and 3.33 TPY* 0.0058 lb OC/MMBtu of actual heat input* and 0.55 TPY* *These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	None, see A.I.2.a below.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-23-06(B)	None, see A.I.2.b below.

2. Additional Terms and Conditions

2.a The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3714.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3714.

2.c This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Emission Limitations:
0.006 lb PE/MMBtu of actual heat input and 0.59 TPY
0.14 lb NOx/MMBtu of actual heat input and 13.31 TPY
0.0006 lb SO2/MMBtu of actual heat input and 0.06 TPY
0.035 lb CO/MMBtu of actual heat input and 3.33 TPY
0.0058 lb OC/MMBtu of actual heat input and 0.55 TPY

Applicable Compliance Methods:
If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

The annual emission limitations were established by multiplying the lb/MMBtu emission limitations by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr), multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-3714. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-212-A (B043)

Activity Description: Stahl-Farrier 23.5 MBH Natural Gas-fired Air Preheater E

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
23.5 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(C) (PTI 14-3451)	3.1 lbs NOx/hr* *The lbs/hr NOx emission limitation is based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation. The total combined emissions of NOx from emissions units B043 and B044 shall not exceed 1.86 TPY based on a rolling, 12-month summation. See A.I.2.a and A.II.1.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-31-05(A)(3) (PTI 14-3451)	0.0006 lb SO2/MMBtu of actual heat input** 1.03 lbs CO/hr** 0.006 lb OC/MMBtu of actual heat input** **These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input
	OAC rule 3745-21-08(B)	None, see A.I.2.b below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.

2. Additional Terms and Conditions

2.a The following combined emission limitations for emissions units B043 and B044 shall not be exceeded:

0.28 TPY PE, as a rolling, 12-month summation;
0.0084 TPY SO2, as a rolling, 12-month summation;
0.62 TPY CO, as a rolling, 12-month summation; and
0.084 TPY OC, as a rolling, 12-month summation.

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3451.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3451.

2. Additional Terms and Conditions (continued)

2.d This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

1. The total combined hours of operation for emissions units B043 and B044 shall not exceed 1,200 hours per year based on a rolling, 12-month summation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the total operating hours for this emissions unit on a monthly basis.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined.

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. Emission Limitation:
3.1 lbs NOx/hr

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 4 and 7.

2. Emission Limitations:
The total combined emissions of NOx from emissions units B043 and B044 shall not exceed:
1.86 TPY based on a rolling, 12-month summation; and
0.62 TPY CO, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the rolling, 12-month operating hours for emissions units B043 and B044 combined (from section A.III.1) by the emission limitation of 3.1 lbs NOx/hr and dividing by 2000 lbs/ton.

Therefore, compliance with the TPY limitations shall be assumed provided the permittee maintains compliance with the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined, the hourly NOx emission limitation of 3.1 lbs NOx/hr and the hourly CO emission limitation of 1.03 lbs CO/hr.

V. Testing Requirements (continued)

3. Emission Limitations:
The following combined emission limitations for emissions units B043 and B044 shall not be exceeded:

0.28 TPY PE, as a rolling, 12-month summation;
0.0084 TPY SO2, as a rolling, 12-month summation;
0.62 TPY CO, as a rolling, 12-month summation; and
0.084 TPY OC, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the rolling, 12-month operating hours for emissions units B043 and B044 combined (from section A.III.1) by the lb/MMBtu emission limitations in section A.I.1, multiplying by the maximum hourly heat input capacity of the emissions unit, and dividing by 2000 lbs/ton.

Therefore, compliance with the TPY limitations shall be assumed provided the permittee maintains compliance with the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined and the lb/MMBtu emission limitations for SO2, OC, and PE.

4. Compliance with the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined shall be based upon the record keeping in A.III.1.

5. Emission Limitations:
0.0006 lb SO2/MMBtu of actual heat input
1.03 lbs CO/hr
0.006 lb OC/MMBtu of actual heat input
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

6. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-3451. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-212-B (B044)

Activity Description: Stahl-Farrier 23.5 MBH Natural Gas-fired Air Preheater F

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
23.5 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(C) (PTI 14-3451)	3.1 lbs NOx/hr* *The lbs/hr NOx emission limitation is based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation. The total combined emissions of NOx from emissions units B043 and B044 shall not exceed 1.86 TPY based on a rolling, 12-month summation. See A.I.2.a and A.II.1.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-31-05(A)(3) (PTI 14-3451)	0.0006 lb SO2/MMBtu of actual heat input** 1.03 lbs CO/hr** 0.006 lb OC/MMBtu of actual heat input** **These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input
	OAC rule 3745-21-08(B)	None, see A.I.2.b below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.

2. Additional Terms and Conditions

2.a The following combined emission limitations for emissions units B043 and B044 shall not be exceeded:

0.28 TPY PE, as a rolling, 12-month summation;
0.0084 TPY SO2, as a rolling, 12-month summation;
0.62 TPY CO, as a rolling, 12-month summation; and
0.084 TPY OC, as a rolling, 12-month summation.

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3451.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3451.

2. Additional Terms and Conditions (continued)

2.d This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

1. The total combined hours of operation for emissions units B043 and B044 shall not exceed 1,200 hours per year based on a rolling, 12-month summation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the total operating hours for this emissions unit on a monthly basis.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined.

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. Emission Limitation:
3.1 lbs NOx/hr

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 4 and 7.

2. Emission Limitations:
The total combined emissions of NOx from emissions units B043 and B044 shall not exceed:
1.86 TPY based on a rolling, 12-month summation; and
0.62 TPY CO, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the rolling, 12-month operating hours for emissions units B043 and B044 combined (from section A.III.1) by the emission limitation of 3.1 lbs NOx/hr and dividing by 2000 lbs/ton.

Therefore, compliance with the TPY limitations shall be assumed provided the permittee maintains compliance with the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined, the hourly NOx emission limitation of 3.1 lbs NOx/hr and the hourly CO emission limitation of 1.03 lbs CO/hr.

V. Testing Requirements (continued)

3. Emission Limitations:
The following combined emission limitations for emissions units B043 and B044 shall not be exceeded:

0.28 TPY PE, as a rolling, 12-month summation;
0.0084 TPY SO2, as a rolling, 12-month summation;
0.62 TPY CO, as a rolling, 12-month summation; and
0.084 TPY OC, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the rolling, 12-month operating hours for emissions units B043 and B044 combined (from section A.III.1) by the lb/MMBtu emission limitations in section A.I.1, multiplying by the maximum hourly heat input capacity of the emissions unit, and dividing by 2000 lbs/ton.

Therefore, compliance with the TPY limitations shall be assumed provided the permittee maintains compliance with the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined and the lb/MMBtu emission limitations for SO2, OC, and PE.

4. Compliance with the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined shall be based upon the record keeping in A.III.1.

5. Emission Limitations:
0.0006 lb SO2/MMBtu of actual heat input
1.03 lbs CO/hr
0.006 lb OC/MMBtu of actual heat input
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

6. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-3451. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-375 (B045)

Activity Description: Coen 117 MBH Air Preheater (Cell 7)

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
117 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. Additional Terms and Conditions

2.a This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

V. Testing Requirements (continued)

2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-376 (B046)

Activity Description: Coen 117 MBH Air Preheater (Cell 6)

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
117 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. Additional Terms and Conditions

2.a This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

V. Testing Requirements (continued)

2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-377 (B047)

Activity Description: Coen 117 MBH Air Preheater (Cell 38)

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
117 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. Additional Terms and Conditions

2.a This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

V. Testing Requirements (continued)

2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-382 (B048)

Activity Description: Stahl-Farrier 185 MBH Natural Gas-fired Air Preheater G (Bldg. 303)

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
185 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(C) (PTI 14-4157)	55.5 lbs NOx/hr* *The lbs/hr NOx emission limitation is based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation. 39.5 TPY NOx based on a rolling, 12-month summation See A.I.2.a and A.II.1.
	OAC rule 3745-31-05(A)(3) (PTI 14-4157)	0.0006 lb SO2/MMBtu of actual heat input** 32.5 lbs CO/hr** 0.006 lb OC/MMBtu of actual heat input** **These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input
	OAC rule 3745-21-08(B)	None, see A.I.2.b below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.

2. Additional Terms and Conditions

2.a The following emission limitations shall not be exceeded:

2.63 TPY PE/PM-10, as a rolling, 12-month summation;
0.08 TPY SO2, as a rolling, 12-month summation;
23.1 TPY CO, as a rolling, 12-month summation; and
0.22 TPY OC, as a rolling, 12-month summation.

2.b The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4157.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4157.

2.d This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

II. Operational Restrictions

1. The total hours of operation for this emissions unit shall not exceed 1,423 hours per year based on a rolling, 12-month summation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:

a the total operating hours for this emissions unit; and

b. the rolling, 12-month operating hours for this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month operating hours limitation.

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. Emission Limitation:
55.5 lbs NOx/hr

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 4 and 7.

2. Emission Limitations:
39.5 TPY NOx based on a rolling, 12-month summation
23.1 TPY CO, as a rolling, 12-month summation

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the rolling, 12-month operating hours for this emissions unit by the emission limitation of 55.5 lbs NOx/hr and the emission limitation of 32.5 lbs CO/hr, respectively and dividing by 2000 lbs/ton.

Therefore, compliance with the TPY limitations shall be assumed provided the permittee maintains compliance with the rolling, 12-month operating hours limitation and the hourly NOx and CO emission limitations.

3. Emission Limitations:
The following emission limitations shall not be exceeded:

2.63 TPY PE/PM-10, as a rolling, 12-month summation;
0.08 TPY SO2, as a rolling, 12-month summation; and
0.22 TPY OC, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the rolling, 12-month operating hours for this emissions unit by the lb/MMBtu emission limitations in section A.I.1, multiplying by the maximum hourly heat input capacity of the emissions unit, and dividing by 2000 lbs/ton.

Therefore, compliance with the TPY limitations shall be assumed provided the permittee maintains compliance with the rolling, 12-month operating hours limitation for this emissions unit and the lb/MMBtu emission limitations for SO2, OC, and PE.

4. Compliance with the rolling, 12-month operating hours limitation shall be based upon the record keeping in A.III.1.

5. Emission Limitations:
0.0006 lb SO2/MMBtu of actual heat input
0.006 lb OC/MMBtu of actual heat input
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

6. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-4157. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-005-A (F003)

Activity Description: Engine and Component Test Cell 6

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 6 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-005-F (F004)

Activity Description: Engine and Component Test Cell 44

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 44 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-005-E (F005)

Activity Description: Engine and Component Test Cell 43

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 43 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-005-C (F006)

Activity Description: Engine and Component Test Cell 37

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 37 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-005-D (F007)

Activity Description: Engine and Component Test Cell 40

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 40 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-005-B (F008)

Activity Description: Engine and Component Test Cell 7

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 7 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-015-G (F009)

Activity Description: Engine and Component Test Cell 46

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 46 (stack emissions only)	OAC rule 3745-31-05(C) (PTI 14-04488)	See A.I.2.a below.
	OAC rule 3745-31-05(A)(3) (PTI 14-04488)	951 lbs NOx/hr* 9.0 lbs PE/hr* 83.2 lbs SO2/hr* 200.0 lbs CO/hr* 200 lbs OC/hr* *These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-11(B)	None, see A.I.2.b below.
	OAC rule 3745-17-07(A)	None, see A.I.2.c below.
	OAC rule 3745-18-06(E)	See A.I.2.d below.
	OAC rule 3745-21-08(B)	None, see A.I.2.e below.
	OAC rule 3745-23-06(B)	None, see A.I.2.f below.

2. Additional Terms and Conditions

2.a The following emission limitations shall not be exceeded:

10.2 TPY PE, as a rolling, 12-month summation;
21.2 TPY SO2, as a rolling, 12-month summation;
58.4 TPY CO, as a rolling, 12-month summation;
43.3 TPY OC, as a rolling, 12-month summation; and
52.3 TPY NOx, as a rolling, 12-month summation.

2.b The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.c 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.d The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.e The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4488.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.f The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4488.

II. Operational Restrictions

1. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. However, there are periods of time when other fuels are burned. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

III. Monitoring and/or Record Keeping Requirements

1. When this emissions unit is in operation and burns fuels other than naphtha and kerosene-based distillate fuel or natural gas, the permittee shall perform daily checks, when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate 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 minimize or eliminate the visible particulate emissions.

If visible particulate 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 (b) 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 particulate emissions were believed to be less than the allowable emission limitation, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate in compliance with the allowable emission limitation, or specify the corrective actions that were taken to minimize or eliminate the visible particulate emissions.

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from daily to weekly readings if the following conditions are met:

d. for 1 full quarter this emissions unit's visual observations indicate no visible emissions; and

e. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings for this emissions unit if visible emissions are observed. The permittee may again reduce the frequency of visual observations from daily to weekly after obtaining 1 full quarter of observations with no visible emissions for this emissions unit.

2. The permittee shall calculate the NOx, CO, OC, SO2 and PE emissions from each engine test at this emissions unit by employing either the "Fuel Flow or Time at 3-Band Throttle Settings" methods or the "Instantaneous Emissions Tracking" system developed by General Electric Aircraft Engines.

3. The permittee shall collect and record the following information monthly when the "Fuel Flow or Time at 3-Band Throttle Settings" methods for calculating NOx, CO, OC, SO2 and PE emissions from an engine test are used:

a. the type(s) and amount(s) of fuel used during each test;

b. the total hours of engine testing;

c. the total NOx, CO, OC, SO2 and PE emitted during each test (by employing the predefined emission curves for the type of engine being tested); and

d. the total monthly NOx, CO, OC, SO2 and PE emissions, in tons (the summation of the emission totals contained in line (c) for all tests performed during the month).

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

4. The permittee shall collect and record the following information when the "Instantaneous Emissions Tracking" system for calculating NOx, CO, OC, SO2 and PE emissions from an engine test is used:

a. the type(s) and amount(s) of fuel used during each test;

b. the total hours of engine testing;

c. the total NOx, CO, OC, SO2 and PE emitted during each test (by employing the predefined emission curves for the type of engine being tested; and

d. the total monthly NOx, CO, OC, SO2 and PE emissions, in tons (the summation of the emission totals contained in line (c) for all tests performed during the month).

5. The permittee shall collect and record the following information on a monthly basis:

a. the total monthly emissions of NOx, CO, OC, SO2 and PE, in tons (the summation of the NOx, CO, OC, SO2 and PE emissions recorded pursuant to A.III.3 and A.III.4 for each month); and

b. the rolling, twelve-month summation of NOx, CO, OC, SO2 and PE emissions (the current month's NOx, CO, OC, SO2 and PE emissions added to the previous eleven monthly totals for NOx, CO, OC, SO2 and PE emissions).

IV. Reporting Requirements

1. 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 minimize or eliminate the 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.

2. The permittee shall submit quarterly deviation (excursion) reports for any monthly record showing an exceedance of the rolling, twelve-month emission limitations for NOx, CO, OC, SO2 and PE listed in section A.I.2.a.

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.

3. The permittee shall submit annual reports that lists the monthly emission totals and the rolling, twelve-month summations for NOx, CO, OC, SO2 and PE. These reports shall be submitted by January 31 of each year and cover the previous calendar year's operation.

V. Testing Requirements

1. Emission Limitations:
10.2 TPY PE, as a rolling, 12-month summation;
21.2 TPY SO2, as a rolling, 12-month summation;
58.4 TPY CO, as a rolling, 12-month summation;
43.3 TPY OC, as a rolling, 12-month summation; and
52.3 TPY NOx, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be shall be based upon the record keeping in A.III.5.

V. Testing Requirements (continued)

2. Emission Limitations:
951 lbs NOx/hr
9.0 lbs PE/hr
83.2 lbs SO2/hr
200.0 lbs CO/hr
200 lbs OC/hr

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-04488. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

2. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-232 (F010)

Activity Description: Engine and Component Test Cell 11

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 11 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-220 (F013)

Activity Description: Engine and Component Test Cell A1

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell A1 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-235 (F014)

Activity Description: Engine and Component Test Cell A2

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell A2 (stack emissions only)	OAC rule 3745-31-05(C) (PTI 14-4156)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-4156)	433 lbs NOx/hr* 313 lbs SO2/hr* 71.1 lbs CO/hr* 15.5 lbs OC/hr* 37.9 lbs PE/hr* ** *These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations. **The lbs/hr particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3) is greater than the uncontrolled mass rate of emission (UMRE) for this emissions unit. See A.I.2.b and A.VI.2 below. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-11(B)	None, see A.I.2.b below.
	OAC rule 3745-17-07(A)	None, see A.I.2.c below.
	OAC rule 3745-18-06(E)	See A.I.2.d below.
	OAC rule 3745-21-08(B)	None, see A.I.2.e below.
	OAC rule 3745-23-06(B)	None, see A.I.2.f below.

2. Additional Terms and Conditions

2.a The total combined emissions from F014 and F015 shall not exceed the following, based on a rolling, 12-month summation:

3.88 TPY PE
7.57 TPY SO2
44.27 TPY NOX
11.27 TPY CO
2.06 TPY OC

These annual emission limitations were established in PTI 14-4156 based on total combined fuel usages for emissions units F014 and F015 of 6,000,000 lbs per year of natural gas and 1,700,000 lbs per year of liquid fuels. Should the company find it necessary to adjust the amount or type of fuel, they may do so as long as the annual emission limitations specified above are not exceeded.

2.b The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.c 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.d The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.e The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4156.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.f The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4156.

II. Operational Restrictions

1. Test Cell A2 (F014), and Test Cell A3 (F015) shall not operate simultaneously.

II. Operational Restrictions (continued)

2. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. However, there are periods of time when other fuels are burned. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:

a. the total natural gas usage, in lbs, and the liquid fuels usage, in lbs, based on rolling, 12-month summations of the natural gas and liquid fuels usages, for emissions units F014 and F015, combined; and

b. the total rolling, twelve-month summations for the natural gas and liquid fuels usages, in lbs, for emissions units F014 and F015, combined.

2. The permittee shall maintain monthly records of the individual operating hours for F014 and F015 (i.e., the specific operating hours of the month that each emissions unit operated during the month) for the purpose of demonstrating that the emissions units did not operate simultaneously as required in A.II.1 above.

3. When this emissions unit is in operation and burns fuels other than naphtha and kerosene-based distillate fuel or natural gas, the permittee shall perform daily checks, when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate 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 minimize or eliminate the visible particulate emissions.

If visible particulate 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 (b) 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 particulate emissions were believed to be less than the allowable emission limitation, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate in compliance with the allowable emission limitation, or specify the corrective actions that were taken to minimize or eliminate the visible particulate emissions.

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from daily to weekly readings if the following conditions are met:

d. for 1 full quarter this emissions unit's visual observations indicate no visible emissions; and

e. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings for this emissions unit if visible emissions are observed. The permittee may again reduce the frequency of visual observations from daily to weekly after obtaining 1 full quarter of observations with no visible emissions for this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit annual reports that identify the following:

a. the total combined monthly fuel usages, in lbs, for emissions units F014 and F015, combined; and

b. the total monthly rolling, twelve-month summations for the amounts of fuels used, in lbs, for emissions units F014 and F015 combined.

These reports shall be submitted by January 31 of each year and cover the previous year's operation.

2. The permittee shall submit deviation (excursion) reports that identify all periods of time when F014 and F015 operated simultaneously. Each report shall be submitted within 30 days after the deviation occurs.

3. 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 minimize or eliminate the 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.

V. Testing Requirements

1. Emission Limitations:
3.88 TPY PE, as a rolling, 12-month summation;
7.57 TPY SO2, as a rolling, 12-month summation;
44.27 TPY NOX, as a rolling, 12-month summation;
11.27 TPY CO, as a rolling, 12-month summation; and
2.06 TPY OC, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation for the amounts of fuel used, in lbs, for emissions units F014 and F015, combined (from section A.III.1) by the confidential General Electric Aircraft Engine emission factors, in lbs pollutant/1000 lbs fuel combusted, multiplying by actual hours of operation/yr, and dividing by 2000 lbs/ton.

2. Emission Limitations:
433 lbs NOx/hr
313 lbs SO2/hr
71.1 lbs CO/hr
15.5 lbs OC/hr
37.9 lbs PE/hr

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-4156. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

VI. Miscellaneous Requirements (continued)

2. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-221 (F015)

Activity Description: Engine and Component Test Cell A3

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell A3 (stack emissions only)	OAC rule 3745-31-05(C) (PTI 14-4156)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-4156)	433 lbs NOx/hr* 313 lbs SO2/hr* 71.1 lbs CO/hr* 15.5 lbs OC/hr* 37.9 lbs PE/hr* ** *These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations. **The lbs/hr particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3) is greater than the uncontrolled mass rate of emission (UMRE) for this emissions unit. See A.I.2.b and A.VI.2 below. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-11(B)	None, see A.I.2.b below.
	OAC rule 3745-17-07(A)	None, see A.I.2.c below.
	OAC rule 3745-18-06(E)	See A.I.2.d below.
	OAC rule 3745-21-08(B)	None, see A.I.2.e below.
	OAC rule 3745-23-06(B)	None, see A.I.2.f below.

2. Additional Terms and Conditions

2.a The total combined emissions from F014 and F015 shall not exceed the following, based on a rolling, 12-month summation:

3.88 TPY PE
7.57 TPY SO2
44.27 TPY NOX
11.27 TPY CO
2.06 TPY OC

These annual emission limitations were established in PTI 14-4156 based on total combined fuel usages for emissions units F014 and F015 of 6,000,000 lbs per year of natural gas and 1,700,000 lbs per year of liquid fuels. Should the company find it necessary to adjust the amount or type of fuel, they may do so as long as the annual emission limitations specified above are not exceeded.

2.b The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.c 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.d The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.e The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4156.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.f The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4156.

II. Operational Restrictions

1. Test Cell A2 (F014), and Test Cell A3 (F015) shall not operate simultaneously.

II. Operational Restrictions (continued)

2. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. However, there are periods of time when other fuels are burned. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:

a. the total natural gas usage, in lbs, and the liquid fuels usage, in lbs, based on rolling, 12-month summations of the natural gas and liquid fuels usages, for emissions units F014 and F015, combined; and

b. the total rolling, twelve-month summations for the natural gas and liquid fuels usages, in lbs, for emissions units F014 and F015, combined.

2. The permittee shall maintain monthly records of the individual operating hours for F014 and F015 (i.e., the specific operating hours of the month that each emissions unit operated during the month) for the purpose of demonstrating that the emissions units did not operate simultaneously as required in A.II.1 above.

3. When this emissions unit is in operation and burns fuels other than naphtha and kerosene-based distillate fuel or natural gas, the permittee shall perform daily checks, when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate 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 minimize or eliminate the visible particulate emissions.

If visible particulate 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 (b) 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 particulate emissions were believed to be less than the allowable emission limitation, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate in compliance with the allowable emission limitation, or specify the corrective actions that were taken to minimize or eliminate the visible particulate emissions.

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from daily to weekly readings if the following conditions are met:

d. for 1 full quarter this emissions unit's visual observations indicate no visible emissions; and

e. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings for this emissions unit if visible emissions are observed. The permittee may again reduce the frequency of visual observations from daily to weekly after obtaining 1 full quarter of observations with no visible emissions for this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit annual reports that identify the following:

a. the total combined monthly fuel usages, in lbs, for emissions units F014 and F015, combined; and

b. the total monthly rolling, twelve-month summations for the amounts of fuels used, in lbs, for emissions units F014 and F015 combined.

These reports shall be submitted by January 31 of each year and cover the previous year's operation.

2. The permittee shall submit deviation (excursion) reports that identify all periods of time when F014 and F015 operated simultaneously. Each report shall be submitted within 30 days after the deviation occurs.

3. 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 minimize or eliminate the 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.

V. Testing Requirements

1. Emission Limitations:
3.88 TPY PE, as a rolling, 12-month summation;
7.57 TPY SO2, as a rolling, 12-month summation;
44.27 TPY NOX, as a rolling, 12-month summation;
11.27 TPY CO, as a rolling, 12-month summation; and
2.06 TPY OC, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation for the amounts of fuel used, in lbs, for emissions units F014 and F015, combined (from section A.III.1) by the confidential General Electric Aircraft Engine emission factors, in lbs pollutant/1000 lbs fuel combusted, multiplying by actual hours of operation/yr, and dividing by 2000 lbs/ton.

2. Emission Limitations:
433 lbs NOx/hr
313 lbs SO2/hr
71.1 lbs CO/hr
15.5 lbs OC/hr
37.9 lbs PE/hr

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-4156. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

VI. Miscellaneous Requirements (continued)

2. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-222 (F016)

Activity Description: Engine and Component Test Cell 306

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 306 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-223 (F017)

Activity Description: Engine and Component Test Cell 307

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 307 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-224 (F018)

Activity Description: Engine and Component Test Cell 301

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 301 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-210 (F019)

Activity Description: Engine and Component Test Cell A18

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell A18 (stack emissions only)	OAC rule 3745-31-05(C) (PTI 14-3965)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-3965)	5.0 lbs NOx/MMBtu* 0.44 lb SO2/MMBtu* 5.0 lbs CO/MMBtu* 0.1 lb OC/MMBtu* 0.71 lb PE/MMBtu* *These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-11(B)	None, see A.I.2.b below.
	OAC rule 3745-17-07(A)	None, see A.I.2.c below.
	OAC rule 3745-18-06(E)	See A.I.2.d below.
	OAC rule 3745-21-08(B)	None, see A.I.2.e below.
	OAC rule 3745-23-06(B)	None, see A.I.2.f below.

2. Additional Terms and Conditions

2.a The total combined emissions from F019 and F020 shall not exceed the following, based on a rolling, 12-month summation:

8.4 TPY PE
2.44 TPY SO2
23.7 TPY NOX
16.23 TPY CO
3.3 TPY OC

2.b The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.c 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.d The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.e The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3965.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.f The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3965.

II. Operational Restrictions

1. The total combined fuel usage for emissions units F019 and F020 shall not exceed 768,000 lbs per month and 3,840,000 lbs per year, based on a rolling, 12-month summation.

2. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. However, there are periods of time when other fuels are burned. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:

a. the total fuel usage, in lbs, for emissions units F019 and F020, combined; and

b. the total rolling, twelve-month summation for the amount of fuel used, in lbs, for emissions units F019 and F020, combined.

2. When this emissions unit is in operation and burns fuels other than naphtha and kerosene-based distillate fuel or natural gas, the permittee shall perform daily checks, when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate 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 minimize or eliminate the visible particulate emissions.

If visible particulate 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 (b) 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 particulate emissions were believed to be less than the allowable emission limitation, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate in compliance with the allowable emission limitation, or specify the corrective actions that were taken to minimize or eliminate the visible particulate emissions.

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from daily to weekly readings if the following conditions are met:

d. for 1 full quarter this emissions unit's visual observations indicate no visible emissions; and

e. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings for this emissions unit if visible emissions are observed. The permittee may again reduce the frequency of visual observations from daily to weekly after obtaining 1 full quarter of observations with no visible emissions for this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the fuel usage limitations specified in A.II.1 of this permit.

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.

IV. Reporting Requirements (continued)

2. The permittee shall submit annual reports that identify the following:

a. the total combined monthly fuel usages, in lbs, for emissions units F019 and F020, combined; and

b. the total monthly rolling, twelve-month summations for the amount of fuel used, in lbs, for emissions units F019 and F020 combined.

These reports shall be submitted by January 31 of each year and cover the previous year's operation.

3. 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 minimize or eliminate the 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.

V. Testing Requirements

1. Emission Limitations:
8.4 TPY PE, as a rolling, 12-month summation;
2.44 TPY SO2, as a rolling, 12-month summation;
16.23 TPY CO, as a rolling, 12-month summation;
3.3 TPY OC, as a rolling, 12-month summation; and
23.7 TPY NOx, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation for the amount of fuel used, in lbs, for emissions units F019 and F020, combined (from section A.III.1) by the confidential General Electric Aircraft Engine emission factors specified in the permit to install application for this emissions unit, in lbs pollutant/1000 lbs fuel combusted, multiplying by 8760 hrs/yr, and dividing by 2000 lbs/ton.

2. Emission Limitations:
5.0 lbs NOx/MMBtu
0.44 lb SO2/MMBtu
5.0 lbs CO/MMBtu
0.1 lb OC/MMBtu
0.71 lb PE/MMBtu

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

3. Compliance with the fuel usage limitations for emissions units F019 and F020 combined shall be based upon the record keeping in A.III.1.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-3965. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

VI. Miscellaneous Requirements (continued)

2. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-211 (F020)

Activity Description: Engine and Component Test Cell A19

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell A19 (stack emissions only)	OAC rule 3745-31-05(C) (PTI 14-3965)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-3965)	5.0 lbs NOx/MMBtu* 0.44 lb SO2/MMBtu* 5.0 lbs CO/MMBtu* 0.1 lb OC/MMBtu* 0.71 lb PE/MMBtu* *These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-11(B)	None, see A.I.2.b below.
	OAC rule 3745-17-07(A)	None, see A.I.2.c below.
	OAC rule 3745-18-06(E)	See A.I.2.d below.
	OAC rule 3745-21-08(B)	None, see A.I.2.e below.
	OAC rule 3745-23-06(B)	None, see A.I.2.f below.

2. Additional Terms and Conditions

2.a The total combined emissions from F019 and F020 shall not exceed the following, based on a rolling, 12-month summation:

8.4 TPY PE
2.44 TPY SO2
23.7 TPY NOX
16.23 TPY CO
3.3 TPY OC

2.b The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.c 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.d The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.e The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3965.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.f The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3965.

II. Operational Restrictions

1. The total combined fuel usage for emissions units F019 and F020 shall not exceed 768,000 lbs per month and 3,840,000 lbs per year, based on a rolling, 12-month summation.

2. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. However, there are periods of time when other fuels are burned. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:

a. the total fuel usage, in lbs, for emissions units F019 and F020, combined; and

b. the total rolling, twelve-month summation for the amount of fuel used, in lbs, for emissions units F019 and F020, combined.

2. When this emissions unit is in operation and burns fuels other than naphtha and kerosene-based distillate fuel or natural gas, the permittee shall perform daily checks, when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate 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 minimize or eliminate the visible particulate emissions.

If visible particulate 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 (b) 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 particulate emissions were believed to be less than the allowable emission limitation, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate in compliance with the allowable emission limitation, or specify the corrective actions that were taken to minimize or eliminate the visible particulate emissions.

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from daily to weekly readings if the following conditions are met:

d. for 1 full quarter this emissions unit's visual observations indicate no visible emissions; and

e. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings for this emissions unit if visible emissions are observed. The permittee may again reduce the frequency of visual observations from daily to weekly after obtaining 1 full quarter of observations with no visible emissions for this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the fuel usage limitations specified in A.II.1 of this permit.

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.

IV. Reporting Requirements (continued)

2. The permittee shall submit annual reports that identify the following:

a. the total combined monthly fuel usages, in lbs, for emissions units F019 and F020, combined; and

b. the total monthly rolling, twelve-month summations for the amount of fuel used, in lbs, for emissions units F019 and F020 combined.

These reports shall be submitted by January 31 of each year and cover the previous year's operation.

3. 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 minimize or eliminate the 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.

V. Testing Requirements

1. Emission Limitations:
8.4 TPY PE, as a rolling, 12-month summation;
2.44 TPY SO2, as a rolling, 12-month summation;
16.23 TPY CO, as a rolling, 12-month summation;
3.3 TPY OC, as a rolling, 12-month summation; and
23.7 TPY NOx, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation for the amount of fuel used, in lbs, for emissions units F019 and F020, combined (from section A.III.1) by the confidential General Electric Aircraft Engine emission factors specified in the permit to install application for this emissions unit, in lbs pollutant/1000 lbs fuel combusted, multiplying by 8760 hrs/yr, and dividing by 2000 lbs/ton.

2. Emission Limitations:
5.0 lbs NOx/MMBtu
0.44 lb SO2/MMBtu
5.0 lbs CO/MMBtu
0.1 lb OC/MMBtu
0.71 lb PE/MMBtu

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

3. Compliance with the fuel usage limitations for emissions units F019 and F020 combined shall be based upon the record keeping in A.III.1.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-3965. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

VI. Miscellaneous Requirements (continued)

2. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-373 (F021)

Activity Description: Engine and Component Test Cell A11

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell A11 (stack emissions only)	OAC rule 3745-31-05(C) (PTI 14-05321)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-05321)	0.013 lb PE/MMBtu of actual heat input* 1.24 lbs NOx/MMBtu of actual heat input* 0.043 lb SO2/MMBtu of actual heat input* 0.753 lb CO/MMBtu of actual heat input* 0.054 lb OC/MMBtu of actual heat input* *These emission limitations are based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-17-07(B), 3745-17-08, 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-11(B)	None, see A.I.2.b below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.d below.
	OAC rule 3745-21-08(B)	None, see A.I.2.e below.
	OAC rule 3745-23-06(B)	None, see A.I.2.f below.

2. Additional Terms and Conditions

2.a The following emission limitations shall not be exceeded:

0.042 TPY PE, as a rolling, 12-month summation;
0.133 TPY SO2, as a rolling, 12-month summation;
2.32 TPY CO, as a rolling, 12-month summation;
0.17 TPY OC, as a rolling, 12-month summation; and
3.82 TPY NOx, as a rolling, 12-month summation.

2.b The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.c 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.d The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.e The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-05321.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.f The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-05321.

II. Operational Restrictions

1. The amount of jet fuel burned in this emissions unit shall not exceed 50,000 gallons per year, based on a rolling, 12-month summation.

2. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. However, there are periods of time when other fuels are burned. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:

a. the total fuel usage, in lbs, for emissions unit F021; and

b. the total rolling, twelve-month summation for the amount of fuel used, in lbs, for emissions unit F021.

2. When this emissions unit is in operation and burns fuels other than naphtha and kerosene-based distillate fuel or natural gas, the permittee shall perform daily checks, when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate 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 minimize or eliminate the visible particulate emissions.

If visible particulate 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 (b) 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 particulate emissions were believed to be less than the allowable emission limitation, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate in compliance with the allowable emission limitation, or specify the corrective actions that were taken to minimize or eliminate the visible particulate emissions.

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from daily to weekly readings if the following conditions are met:

d. for 1 full quarter this emissions unit's visual observations indicate no visible emissions; and

e. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings for this emissions unit if visible emissions are observed. The permittee may again reduce the frequency of visual observations from daily to weekly after obtaining 1 full quarter of observations with no visible emissions for this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the fuel usage limitation specified in A.II.1 of this permit.

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.

2. The permittee shall submit annual reports that identify the following:

a. the monthly fuel usage, in lbs, for emissions unit F021; and

b. the total monthly rolling, twelve-month summation for the amount of fuel used, in lbs, for emissions unit F021.

These reports shall be submitted by January 31 of each year and cover the previous year's operation.

IV. Reporting Requirements (continued)

3. 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 minimize or eliminate the 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.

V. Testing Requirements

1. Emission Limitations:
0.042 TPY PE, as a rolling, 12-month summation;
0.133 TPY SO2, as a rolling, 12-month summation;
2.32 TPY CO, as a rolling, 12-month summation;
0.17 TPY OC, as a rolling, 12-month summation; and
3.82 TPY NOx, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation for the amount of fuel used, in lbs, for emissions unit F021 (from section A.III.1) by the confidential General Electric Aircraft Engine emission factors specified in the permit to install application for this emissions unit, in lbs pollutant/1000 lbs fuel combusted, multiplying by 8760 hrs/yr, and dividing by 2000 lbs/ton.

2. Emission Limitations:
0.013 lb PE/MMBtu of actual heat input
1.24 lbs NOx/MMBtu of actual heat input
0.043 lb SO2/MMBtu of actual heat input
0.753 lb CO/MMBtu of actual heat input
0.054 lb OC/MMBtu of actual heat input

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

3. Compliance with the fuel usage limitation shall be based upon the record keeping in A.III.1.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-05321. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

2. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-010-G (K017)

Activity Description: Coatings Application Booth

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
coatings application booth with exhaust filters for control of PE	OAC rule 3745-31-05(A)(3) (PTI 14-1653)	1.3 TPY VOC from coatings 0.13 TPY VOC from cleanup material See A.I.2.a below. The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(U), 3745-21-07(G)(2), 3745-17-07(A), and 3745-17-11(B)(1).
	OAC rule 3745-21-09(U)(2)(e)(ii)	See A.I.2.b and A.II.1 below.
	OAC rule 3745-21-07(G)(2)	8 lbs/hour and 40 lbs/day of organic compounds (OC)
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	PE shall not exceed 0.551 lb/hr, based on Table I.
	40 CFR Part 63, Subpart GG	See A.I.2.c.

2. Additional Terms and Conditions

2.a i. Coating usage shall not exceed 388 gallons per year.
ii. The VOC content of any coating shall not exceed 6.7 lbs VOC/gallon of coating, as applied.
iii. Cleanup material usage shall not exceed 40 gallons/yr.

2.b Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally-approved SIP (for the Cincinnati ozone area). The rule has been revised to reflect an exemption level (3 gallons per day) that is acceptable to USEPA. Therefore, the 3 gallons per day usage restriction shall apply as the exemption level while OAC rule 3745-21-09(U) is being approved by USEPA, as well as after USEPA approval.

2. Additional Terms and Conditions (continued)

2.c This emissions unit currently employs only coatings meeting the definition of "exempt specialty coating" as defined in 40 CFR 63, Subpart GG. It is, therefore, exempt from all emission limitations and control requirements contained in 40 CFR 63, Subpart GG.

The permittee may employ coatings not meeting the definition of "exempt specialty coating" as provided in A.IV.5 below.

II. Operational Restrictions

1. The permittee shall employ not more than 3 gallons of coating in any one day in this emissions unit to miscellaneous metal parts and products.

2. The permittee shall operate and maintain the exhaust filters when this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each coating and cleanup material used in this emissions unit:

a. the name and identification number of each coating and cleanup material employed;

b. an identification of whether each coating employed meets the definition of an "exempt specialty coating" per 40 CFR 63, Subpart GG;

c. the OC content, in pounds/gallon, of each coating employed; and

d. the OC content, in pounds/gallon, of each cleanup material employed.

2. The permittee shall collect and record the following information each day for this emissions unit:

a. the name and identification number of each coating and cleanup material employed;

b. for each coating, an identification of whether the coating was applied to metal parts or nonmetal parts;

c. the volume, in gallons, of each coating employed;

d. the total volume, in gallons, of all the coatings employed for the metal parts;

e. the volume, in gallons, of each cleanup material employed;

f. the total OC emission rate for all coatings and cleanup materials employed [summation of (A.III.1.c x A.III.2.c) + (A.III.1.d x A.III.2.e)], in pounds per day;

g. the total number of hours the emissions unit was in operation and coatings were applied; and

h. the OC emission rate for all coatings and cleanup materials [(A.III.2.f/A.III.2.g], in pounds per hour (average).

3. The permittee shall maintain records of the annual coating usage for this emissions unit.

4. The permittee shall maintain records of the annual cleanup material usage for this emissions unit.

5. The permittee shall document any time period when the exhaust filters were not in service when this emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the appropriate Ohio EPA District Office or local air agency in writing of any daily record showing that:

a. the emissions unit employs more than 3 gallons of coating in any one day to miscellaneous metal parts and products; and

b. the VOC content of any coating employed in this emissions unit exceeds 6.7 lbs VOC/gallon of coating.

The notification shall include a copy of such record and shall be sent to the appropriate Ohio EPA District Office or local air agency within 45 days after the exceedance occurs.

2. The permittee shall submit quarterly deviation (excursion) reports that identify:

a. each day during which the average hourly organic compound emissions exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and

b. each day during which the organic compound emissions exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

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.

3. The permittee shall submit annual reports that specify the annual coating usage for the emissions unit. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

4. The permittee shall submit annual reports that specify the annual VOC emissions from cleanup materials from this emissions unit. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

5. Prior to employing any coating not meeting the definition of an "exempt specialty coating" as defined in 40 CFR 63, Subpart GG, the permittee shall provide written notification to the appropriate Ohio EPA District Office or local air agency. Such notification shall include information sufficient to determine compliance with the VOC content limitations specified in 40 CFR 63, Subpart GG. This notification, at a minimum, shall include the company identification and VOC content of the new coating to be employed.

6. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing that the exhaust filters were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

V. Testing Requirements

1. Compliance with the lbs/hr and lbs/day organic compound emission limitations in A.I.1, the coating and cleanup material usage limitations in A.I.2.a, the VOC content limitation in A.I.2.a and the coating usage restriction in A.II.1 shall be based upon the record keeping in A.III.

2. USEPA Method 24 shall be used to determine the VOC contents of the coatings. USEPA Method 24 or formulation data shall be used to determine the VOC contents of the cleanup materials. The permittee may rely on USEPA Method 24 data provided by material suppliers.

3. Emission Limitation:
1.3 TPY VOC from coatings

Applicable Compliance Method:
This emission limitation was established by multiplying the annual coating usage limitation (388 gallons per year) by the coating VOC content limitation (6.7 lbs VOC/gallon) and dividing by 2000 lbs/ton. Therefore, compliance with the annual limitation will be assumed provided compliance is maintained with the annual coating usage limitation and the coating VOC content limitation.

V. Testing Requirements (continued)

4. Emission Limitation:
0.13 TPY VOC from cleanup materials

Applicable Compliance Method:
Compliance with this emission limitation shall be demonstrated by multiplying the VOC content of each cleanup material by the number of gallons of each cleanup material employed in this emission unit during each day, summing the daily emissions for the calendar year and dividing by 2000 lbs/ton.

5. Emission Limitation:
0.551 lb PE/hr

Applicable Compliance Method:
To determine the actual worst case particulate emission rate (E), the following equation shall be used for the paint spraying operations:

E = particulate matter emission rate (lbs/hr)

E = maximum coating solids usage rate in pounds per hour X (1-TE) X (1-CE), where

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, expressed as a decimal fraction, and

CE = control efficiency of the control equipment, expressed as a decimal fraction.

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.

6. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-1653. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-015-A (P013)

Activity Description: Engine and Component Test Cell 3

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 3 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-015-E (P014)

Activity Description: Engine and Component Test Cell 38

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 38 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-015-D (P015)

Activity Description: Engine and Component Test Cell 35

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 35 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-015-C (P016)

Activity Description: Engine and Component Test Cell 34

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 34 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-015-H (P017)

Activity Description: Engine and Component Test Cell 2

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 2 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-015-I (P018)

Activity Description: Engine and Component Test Cell 5

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 5 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-015-B (P019)

Activity Description: Engine and Component Test Cell 4

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 4 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-015-F (P020)

Activity Description: Engine and Component Test Cell 45

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell 45 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-057 (P075)

Activity Description: Engine and Component Test Cell A5

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
engine and component test cell A5 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions from this emissions unit is 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.

2.b 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.c The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

2.d The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-199 (P188)

Activity Description: Robotic Spray Coatings Application System 3B

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
spray coatings application system with exhaust filters for control of PE	OAC rule 3745-31-05(A)(3) (PTI 14-3732)	63.7 lbs VOC/day and 3.35 TPY of VOC from coatings and cleanup materials employed See A.I.2.a below. 0.016 lb PE/hr and 0.071 TPY of PE The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(U), 3745-21-07(G)(2) and 3745-17-07(A).
	OAC rule 3745-21-09(U)(2)(e)(ii)	See A.I.2.b and A.II.1 below.
	OAC rule 3745-21-07(G)(2)	8 lbs/hour and 40 lbs/day of organic compounds (OC)
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursunt to OAC rule 3745-31-05(A)(3).
	40 CFR Part 63, Subpart GG	See A.I.2.c.

2. Additional Terms and Conditions

2.a i. Coating usage shall not exceed 10 gallons per day and 1000 gallons per year.
ii. The VOC content of each coating employed shall not exceed 5.7 lbs VOC/gallon of coating, as applied.
iii. The permittee shall not employ more than 1 gallon per day and 150 gallons per year of cleanup materials.

2. Additional Terms and Conditions (continued)

2.b Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally-approved SIP (for the Cincinnati ozone area). The rule has been revised to reflect an exemption level (3 gallons per day) that is acceptable to USEPA. Therefore, the 3 gallons per day usage restriction shall apply as the exemption level while OAC rule 3745-21-09(U) is being approved by USEPA, as well as after USEPA approval.

2.c This emissions unit currently employs only coatings meeting the definition of "exempt specialty coating" as defined in 40 CFR 63, Subpart GG. It is, therefore, exempt from all emission limitations and control requirements contained in 40 CFR 63, Subpart GG.

The permittee may employ coatings not meeting the definition of "exempt specialty coating" as provided in A.IV.5 below.

II. Operational Restrictions

1. The permittee shall employ not more than 3 gallons of coating in any one day in this emissions unit to miscellaneous metal parts and products.

2. The permittee shall operate and maintain the exhaust filters when this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each coating and cleanup material used in this emissions unit:

a. the name and identification number of each coating and cleanup material employed;

b. an identification of whether each coating employed meets the definition of an "exempt specialty coating" per 40 CFR 63, Subpart GG;

c. the OC content, in pounds/gallon, of each coating employed; and

d. the OC content, in pounds/gallon, of each cleanup material employed.

2. The permittee shall collect and record the following information each day for this emissions unit:

a. the name and identification number of each coating and cleanup material employed;

b. for each coating, an identification of whether the coating was applied to metal parts or nonmetal parts;

c. the volume, in gallons, of each coating employed;

d. the total volume, in gallons, of all the coatings employed for the metal parts;

e. the volume, in gallons, of each cleanup material employed;

f. the total OC emission rate for all coatings and cleanup materials employed [summation of (A.III.1.c x A.III.2.c) + (A.III.1.d x A.III.2.e)], in pounds per day;

g. the total number of hours the emissions unit was in operation and coatings were applied; and

h. the OC emission rate for all coatings and cleanup materials [(A.III.2.f/A.III.2.g], in pounds per hour (average).

3. The permittee shall maintain records of the annual coating usage for this emissions unit.

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

4. The permittee shall maintain records of the annual cleanup material usage for this emissions unit.

5. The permittee shall maintain records of the annual VOC (OC) emissions from coatings and cleanup materials calculated as the sum of the daily VOC (OC) emissions from coating and cleanup materials in A.III.2.f for the calendar year and dividing by 2000 lbs/ton.

6. The permittee shall document any time period when the exhaust filters were not in service when this emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall notify the appropriate Ohio EPA District Office or local air agency in writing of any daily record showing that:

a. the emissions unit employs more than 3 gallons of coating in any one day to miscellaneous metal parts and products; and

b. the VOC content of any coating employed in this emissions unit exceeds 5.7 lbs VOC/gallon of coating.

The notification shall include a copy of such record and shall be sent to the appropriate Ohio EPA District Office or local air agency within 45 days after the exceedance occurs.

2. The permittee shall submit quarterly deviation (excursion) reports that identify:

a. each day during which the average hourly organic compound emissions exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day;

b. each day during which the organic compound emissions exceeded 40 pounds per day, and the actual organic compound emissions for each such day;

c. each day during which the VOC (OC) emissions from coatings and cleanup materials exceeded the limitation specified in A.I.1;

d. all exceedances of the coating usage limitation of 10 gallons per day; and

e. all exceedances of the cleanup material usage limitation of 1 gallon per day.

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.

3. The permittee shall submit annual reports that specify the annual coating usage for the emissions unit. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

4. The permittee shall submit annual reports that specify the annual cleanup material usage for the emissions unit. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

5. Prior to employing any coating not meeting the definition of an "exempt specialty coating" as defined in 40 CFR 63, Subpart GG, the permittee shall provide written notification to the appropriate Ohio EPA District Office or local air agency. Such notification shall include information sufficient to determine compliance with the VOC content limitations specified in 40 CFR 63, Subpart GG. This notification, at a minimum, shall include the company identification and VOC content of the new coating to be employed.

6. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing that the exhaust filters were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

V. Testing Requirements

1. Compliance with the lbs/hr and lbs/day organic compound emission limitations in A.I.1, the coating and cleanup material usage limitations in A.I.2.a, the VOC content limitation in A.I.2.a and the coating usage restriction in A.II.1 shall be based upon the record keeping in A.III.

2. USEPA Method 24 shall be used to determine the VOC contents of the coatings. USEPA Method 24 or formulation data shall be used to determine the VOC contents of the cleanup materials. The permittee may rely on USEPA Method 24 data provided by material suppliers.

3. Emission Limitation:
63.7 lbs VOC/day from coatings and cleanup materials employed

Applicable Compliance Method:
Compliance shall be based on the record keeping in A.III.2.

4. Emission Limitation:
3.35 TPY of VOC from coatings and cleanup materials employed

Applicable Compliance Method:
Compliance shall be based on the record keeping in A.III.5.

5. Emission Limitation:
0.016 lb PE/hr

Applicable Compliance Method:
To determine the actual worst case particulate emission rate (E), the following equation shall be used for the paint spraying operations:

E = particulate matter emission rate (lbs/hr)

E = maximum coating solids usage rate in pounds per hour X (1-TE) X (1-CE), where

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, expressed as a decimal fraction, and

CE = control efficiency of the control equipment, expressed as a decimal fraction.

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.

6. Emission Limitation:
0.071 TPY of PE

Applicable Compliance Method:
Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760 hrs/yr and then dividing by 2000 lbs/ton).

7. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-3732. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-271-A (P231)

Activity Description: 1600 kW Diesel Peak Shaving Generator 601

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
1600 KW number 2 fuel oil-fired generator (large bore)	OAC rule 3745-31-05(C) (PTI 14-2834)	38.9 TPY* NOx; 0.78 TPY* PE; 6.33 TPY* SO2; 7.59 TPY* CO; and 1.26 TPY* OC See A.II.1 below. *This TPY emission limitation was established based on 8760 hrs/yr of operation for one diesel generator (P231, P234, or P235). Therefore, compliance with the TPY limitation shall be assumed provided compliance is maintained with the rolling, 365-day operating hours limitation for P231, P234, and P235 combined in A.II.1 below.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-31-05(A)(3) (PTI 14-2834)	49.1 lbs NOx/hr**; 0.25 lb PE/MMBtu**; 8.0 lbs SO2/hr**; 9.6 lbs CO/hr**; and 1.6 lbs OC/hr**. **These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), 3745-17-11(B)(5)(b) and 3745-18-06(G).
	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(5)(b)	0.062 lb PE/MMBtu of actual heat input The emission limitation specified by this rule is more stringent than the emission limitation established pursunt to OAC rule 3745-31-05(A)(3). See A.I.2.a below.
	OAC rule 3745-18-06(G)	0.5 lb SO2/MMBtu of actual heat input

2. Additional Terms and Conditions

2.a The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

II. Operational Restrictions

1. The total combined hours of operation for P231, P234, and P235 shall not exceed 1584 hours per year, based on a rolling, 365-day summation.

II. Operational Restrictions (continued)

2. The permittee shall burn only low sulfur, number 2 fuel oil, containing less than 0.05% by weight sulfur, in this emissions unit. This operational restriction was not part of the BAT definition for this emissions unit. It has been added to this permit to ensure ongoing compliance with the emission limitation contained in OAC rule 3745-18-06[G]. Because compliance with this operational restriction will maintain the actual SO2 emission rate well below the emission limitation contained in OAC rule 3745-18-06[G], there is no need for additional fuel sampling and analysis requirements for this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a daily basis:

a. the individual hours of operation for emissions units P231, P234, and P235;

b. the total combined hours of operation for emissions units P231, P234, and P235; and

c. the total combined rolling, 365-day summation of the operating hours for emissions units P231, P234, and P235 combined (the summation of line b for the current day and the previous 364 days of operation).

2. The permittee shall maintain a copy of the contract with the supplier, which calls for low sulfur, number 2 fuel oil meeting the 0.05% by weight specification.

3. For each day during which the permittee burns a fuel other than low sulfur, number 2 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 annual reports to the Director (the appropriate Ohio EPA District Office or local air agency) that includes the total combined hours of operation for emissions units P231, P234, and P235. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year's operation.

2. The permittee shall submit a copy of the contract with the supplier, which calls for low sulfur, number 2 fuel oil meeting the 0.05% by weight specification to the Director (the appropriate Ohio EPA District Office or local air agency) on an annual basis. This information shall be submitted by January 31 of each year and shall cover the previous calendar year's operation.

V. Testing Requirements

1. Compliance with the short term emission limitations specified in A.I.1 may based on the emission factors found in Attachment II of Appendix B contained in PTI application 14-2834 dated October 28, 1992. The emission factors specified in this document were developed from source testing by the manufacturer.

If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

V. Testing Requirements (continued)

3. Emission Limitation:
0.062 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be based on the emission factor of 0.062 lb PE/MMBtu of actual heat input from AP-42, Table 3.4-2 (10/96).

If required, compliance with the lb/MMBtu emission limitation shall be demonstrated 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).

4. Emission Limitation:
0.5 lb SO2/MMBtu of actual heat input

Applicable Compliance Method:
Compliance with the allowable sulfur dioxide emission limitation may be assumed provided the permittee burns only low sulfur, number 2 fuel oil, containing less than 0.05% by weight sulfur in this emissions unit.

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

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2834. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-271-B (P234)

Activity Description: 1600 kW Diesel Peak Shaving Generator 801

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
1600 KW number 2 fuel oil-fired generator (large bore)	OAC rule 3745-31-05(C) (PTI 14-2834)	38.9 TPY* NOx; 0.78 TPY* PE; 6.33 TPY* SO2; 7.59 TPY* CO; and 1.26 TPY* OC See A.II.1 below. *This TPY emission limitation was established based on 8760 hrs/yr of operation for one diesel generator (P231, P234, or P235). Therefore, compliance with the TPY limitation shall be assumed provided compliance is maintained with the rolling, 365-day operating hours limitation for P231, P234, and P235 combined in A.II.1 below.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-31-05(A)(3) (PTI 14-2834)	49.1 lbs NOx/hr**; 0.25 lb PE/MMBtu**; 8.0 lbs SO2/hr**; 9.6 lbs CO/hr**; and 1.6 lbs OC/hr**. **These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), 3745-17-11(B)(5)(b) and 3745-18-06(G).
	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(5)(b)	0.062 lb PE/MMBtu of actual heat input The emission limitation specified by this rule is more stringent than the emission limitation established pursunt to OAC rule 3745-31-05(A)(3). See A.I.2.a below.
	OAC rule 3745-18-06(G)	0.5 lb SO2/MMBtu of actual heat input

2. Additional Terms and Conditions

2.a The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

II. Operational Restrictions

1. The total combined hours of operation for P231, P234, and P235 shall not exceed 1584 hours per year, based on a rolling, 365-day summation.

II. Operational Restrictions (continued)

2. The permittee shall burn only low sulfur, number 2 fuel oil, containing less than 0.05% by weight sulfur, in this emissions unit. This operational restriction was not part of the BAT definition for this emissions unit. It has been added to this permit to ensure ongoing compliance with the emission limitation contained in OAC rule 3745-18-06[G]. Because compliance with this operational restriction will maintain the actual SO2 emission rate well below the emission limitation contained in OAC rule 3745-18-06[G], there is no need for additional fuel sampling and analysis requirements for this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a daily basis:

a. the individual hours of operation for emissions units P231, P234, and P235;

b. the total combined hours of operation for emissions units P231, P234, and P235; and

c. the total combined rolling, 365-day summation of the operating hours for emissions units P231, P234, and P235 combined (the summation of line b for the current day and the previous 364 days of operation).

2. The permittee shall maintain a copy of the contract with the supplier, which calls for low sulfur, number 2 fuel oil meeting the 0.05% by weight specification.

3. For each day during which the permittee burns a fuel other than low sulfur, number 2 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 annual reports to the Director (the appropriate Ohio EPA District Office or local air agency) that includes the total combined hours of operation for emissions units P231, P234, and P235. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year's operation.

2. The permittee shall submit a copy of the contract with the supplier, which calls for low sulfur, number 2 fuel oil meeting the 0.05% by weight specification to the Director (the appropriate Ohio EPA District Office or local air agency) on an annual basis. This information shall be submitted by January 31 of each year and shall cover the previous calendar year's operation.

V. Testing Requirements

1. Compliance with the short term emission limitations specified in A.I.1 may based on the emission factors found in Attachment II of Appendix B contained in PTI application 14-2834 dated October 28, 1992. The emission factors specified in this document were developed from source testing by the manufacturer.

If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

V. Testing Requirements (continued)

3. Emission Limitation:
0.062 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be based on the emission factor of 0.062 lb PE/MMBtu of actual heat input from AP-42, Table 3.4-2 (10/96).

If required, compliance with the lb/MMBtu emission limitation shall be demonstrated 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).

4. Emission Limitation:
0.5 lb SO2/MMBtu of actual heat input

Applicable Compliance Method:
Compliance with the allowable sulfur dioxide emission limitation may be assumed provided the permittee burns only low sulfur, number 2 fuel oil, containing less than 0.05% by weight sulfur in this emissions unit.

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

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2834. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: EA-271-C (P235)

Activity Description: 1600 kW Diesel Peak Shaving Generator 901

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
1600 KW number 2 fuel oil-fired generator (large bore)	OAC rule 3745-31-05(C) (PTI 14-2834)	38.9 TPY* NOx; 0.78 TPY* PE; 6.33 TPY* SO2; 7.59 TPY* CO; and 1.26 TPY* OC See A.II.1 below. *This TPY emission limitation was established based on 8760 hrs/yr of operation for one diesel generator (P231, P234, or P235). Therefore, compliance with the TPY limitation shall be assumed provided compliance is maintained with the rolling, 365-day operating hours limitation for P231, P234, and P235 combined in A.II.1 below.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-31-05(A)(3) (PTI 14-2834)	49.1 lbs NOx/hr**; 0.25 lb PE/MMBtu**; 8.0 lbs SO2/hr**; 9.6 lbs CO/hr**; and 1.6 lbs OC/hr**. **These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), 3745-17-11(B)(5)(b) and 3745-18-06(G).
	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(5)(b)	0.062 lb PE/MMBtu of actual heat input The emission limitation specified by this rule is more stringent than the emission limitation established pursunt to OAC rule 3745-31-05(A)(3). See A.I.2.a below.
	OAC rule 3745-18-06(G)	0.5 lb SO2/MMBtu of actual heat input

2. Additional Terms and Conditions

2.a The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

II. Operational Restrictions

1. The total combined hours of operation for P231, P234, and P235 shall not exceed 1584 hours per year, based on a rolling, 365-day summation.

II. Operational Restrictions (continued)

2. The permittee shall burn only low sulfur, number 2 fuel oil, containing less than 0.05% by weight sulfur, in this emissions unit. This operational restriction was not part of the BAT definition for this emissions unit. It has been added to this permit to ensure ongoing compliance with the emission limitation contained in OAC rule 3745-18-06[G]. Because compliance with this operational restriction will maintain the actual SO2 emission rate well below the emission limitation contained in OAC rule 3745-18-06[G], there is no need for additional fuel sampling and analysis requirements for this emissions unit.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a daily basis:

a. the individual hours of operation for emissions units P231, P234, and P235;

b. the total combined hours of operation for emissions units P231, P234, and P235; and

c. the total combined rolling, 365-day summation of the operating hours for emissions units P231, P234, and P235 combined (the summation of line b for the current day and the previous 364 days of operation).

2. The permittee shall maintain a copy of the contract with the supplier, which calls for low sulfur, number 2 fuel oil meeting the 0.05% by weight specification.

3. For each day during which the permittee burns a fuel other than low sulfur, number 2 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 annual reports to the Director (the appropriate Ohio EPA District Office or local air agency) that includes the total combined hours of operation for emissions units P231, P234, and P235. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year's operation.

2. The permittee shall submit a copy of the contract with the supplier, which calls for low sulfur, number 2 fuel oil meeting the 0.05% by weight specification to the Director (the appropriate Ohio EPA District Office or local air agency) on an annual basis. This information shall be submitted by January 31 of each year and shall cover the previous calendar year's operation.

V. Testing Requirements

1. Compliance with the short term emission limitations specified in A.I.1 may based on the emission factors found in Attachment II of Appendix B contained in PTI application 14-2834 dated October 28, 1992. The emission factors specified in this document were developed from source testing by the manufacturer.

If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
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).

V. Testing Requirements (continued)

3. Emission Limitation:
0.062 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be based on the emission factor of 0.062 lb PE/MMBtu of actual heat input from AP-42, Table 3.4-2 (10/96).

If required, compliance with the lb/MMBtu emission limitation shall be demonstrated 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).

4. Emission Limitation:
0.5 lb SO2/MMBtu of actual heat input

Applicable Compliance Method:
Compliance with the allowable sulfur dioxide emission limitation may be assumed provided the permittee burns only low sulfur, number 2 fuel oil, containing less than 0.05% by weight sulfur in this emissions unit.

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

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2834. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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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