



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

11/19/04

**CERTIFIED MAIL**

**RE: Final Title V Chapter 3745-77 permit**

02-47-08-0487  
WEST LORAIN PLANT  
Robert E Williams II  
76 S. Main Street  
13th Floor  
Akron, OH 44308-0000

Dear Robert E Williams:

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 Northeast District Office.

Sincerely,

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

cc: Northeast District Office  
File, DAPC PMU



State of Ohio Environmental Protection Agency

**FINAL TITLE V PERMIT**

Issue Date: **11/19/04**

Effective Date: **01/03/05**

Expiration Date: **01/03/10**

This document constitutes issuance of a Title V permit for Facility ID: 02-47-08-0487 to:  
**WEST LORAIN PLANT**  
7101 WEST ERIE AVENUE  
LORAIN, OH 44053-0000

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

B001 (GENERAL ELECTRIC CT-1A) GENERAL ELECTRIC MODEL 7000 COMBUSTION TURBINE	B006 (AUX. BOILER, B) AUX. BOILER, OIL-FIRED STEAM BOILER	P003 (GE CT Unit # 4) GENERAL ELECTRIC COMBUSTION TURBINE MODEL 7EA
B002 (GENERAL ELECTRIC CT-1B) GENERAL ELECTRIC MODEL 7000 COMBUSTION TURBINE	P001 (GE CT Unit # 2) GENERAL ELECTRIC COMBUSTION TURBINE MODEL 7EA	P004 (GE CT Unit # 5) GENERAL ELECTRIC COMBUSTION TURBINE MODEL 7EA
B003 (AUX. BOILER, A) AUX. BOILER, ERIE DISTILLATE OIL-FIRED STEAM BOILER	P002 (GE CT Unit # 3) GENERAL ELECTRIC COMBUSTION TURBINE MODEL 7EA	P005 (GE CT Unit # 6) GENERAL ELECTRIC COMBUSTION TURBINE MODEL 7EA

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:

Northeast District Office  
2110 East Aurora Road  
Twinsburg, OH 44087  
(330) 425-9171

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 Federally Enforceable 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. 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, Subpart M.

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, Subpart M.

2. 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.

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.

3. Emissions units B004 and B005 (General Electric HRSG-1A and HRSG-1B) have not been operated during the past five years. Before these emissions units are granted authorization to operate, the permittee shall comply with all applicable federal and Ohio EPA new source review requirements and federal New Source Performance Standards, and demonstrate compliance with all applicable emission limitations and control requirements by performing emission tests in accordance with approved U.S. EPA methods and procedures.

Emissions units B004 and B005 (General Electric HRSG-1A and HRSG-1B) have not been operated during the past five years. Before these emissions units are granted authorization to operate, the permittee shall comply with all applicable federal and Ohio EPA new source review requirements and federal New Source Performance Standards, and demonstrate compliance with all applicable emission limitations and control requirements by performing emission tests in accordance with approved U.S. EPA methods and procedures.

4. Nitrogen Oxides (NOx) Budget Trading Program

OAC Chapter 3745-14

Nitrogen Oxides (NOx) Budget Trading Program

OAC Chapter 3745-14

- 4.a Office of Regulatory Information System Facility Code - 2869

Office of Regulatory Information System Facility Code - 2869

- 4.b The following regulated electrical generating units are subject to the applicable requirements specified in OAC Chapter 3745-14 and the annual NOx allowance allocations listed below:

Emissions Unit	Annual Allowance for Calendar Years 2004 and 2005	Annual Allowance for Calendar Years 2006 and 2007
B001 - CT1A	0	0
B002 - CT1B	0	0

The following regulated electrical generating units are subject to the applicable requirements specified in OAC Chapter 3745-14 and the annual NOx allowance allocations listed below:

Emissions Unit	Annual Allowance for Calendar Years 2004 and 2005	Annual Allowance for Calendar Years 2006 and 2007
B001 - CT1A	0	0
B002 - CT1B	0	0

- 4.c The emissions units identified in Section A.4.b above are NOx budget units under OAC rule 3745-14-01(C)(1). [OAC rule 3745-14-01(C)(1)(a)(i)]

**A. State and Federally Enforceable Section (continued)**

The emissions units identified in Section A.4.b above are NOx budget units under OAC rule 3745-14-01(C)(1).  
[OAC rule 3745-14-01(C)(1)(a)(i)]

- 4.d** The NOx authorized account representative shall submit a complete NOx budget permit application in accordance with the deadlines specified in paragraphs (B)(2) and (B)(3) of OAC rule 3745-14-03. The NOx authorized account representative shall also submit, in a timely manner, any supplemental information that the Director determines is necessary in order to review a NOx budget permit application and issue or deny a NOx budget permit.  
[OAC rules 3745-14-01(E)(1)(a)(i), 3745-14-01(E)(1)(a)(ii), and 3745-14-03(B)(1)]

The NOx authorized account representative shall submit a complete NOx budget permit application in accordance with the deadlines specified in paragraphs (B)(2) and (B)(3) of OAC rule 3745-14-03. The NOx authorized account representative shall also submit, in a timely manner, any supplemental information that the Director determines is necessary in order to review a NOx budget permit application and issue or deny a NOx budget permit.  
[OAC rules 3745-14-01(E)(1)(a)(i), 3745-14-01(E)(1)(a)(ii), and 3745-14-03(B)(1)]

- 4.e** Beginning May 31, 2004, the owners and operators of each NOx budget source and each NOx budget unit at the source shall hold NOx allowances available for compliance deductions under paragraph (E) of OAC rule 3745-14-06, as of the NOx allowance transfer deadline, in the unit's compliance account and the source's overdraft account in an amount not less than the total NOx emissions for the control period from the unit, as determined in accordance with OAC rule 3745-14-08, plus any amount necessary to account for actual utilization under paragraph (C)(5) of OAC rule 3745-14-05 for the control period.  
[OAC rules 3745-14-01(E)(3)(a) and 3745-14-01(E)(3)(c)]

Beginning May 31, 2004, the owners and operators of each NOx budget source and each NOx budget unit at the source shall hold NOx allowances available for compliance deductions under paragraph (E) of OAC rule 3745-14-06, as of the NOx allowance transfer deadline, in the unit's compliance account and the source's overdraft account in an amount not less than the total NOx emissions for the control period from the unit, as determined in accordance with OAC rule 3745-14-08, plus any amount necessary to account for actual utilization under paragraph (C)(5) of OAC rule 3745-14-05 for the control period.  
[OAC rules 3745-14-01(E)(3)(a) and 3745-14-01(E)(3)(c)]

- 4.f** NOx allowances shall be held in, deducted from, or transferred among NOx allowance tracking system accounts in accordance with OAC rules 3745-14-05, 3745-14-06, 3745-14-07, and 3745-14-09.  
[OAC rule 3745-14-01(E)(3)(d)]

NOx allowances shall be held in, deducted from, or transferred among NOx allowance tracking system accounts in accordance with OAC rules 3745-14-05, 3745-14-06, 3745-14-07, and 3745-14-09.  
[OAC rule 3745-14-01(E)(3)(d)]

- 4.g** A NOx allowance shall not be deducted, in order to comply with the requirement under paragraph (E)(3)(a) of OAC rule 3745-14-01, for a control period in a year prior to the year for which the NOx allowance was allocated.  
[OAC rule 3745-14-01(E)(3)(e)]

A NOx allowance shall not be deducted, in order to comply with the requirement under paragraph (E)(3)(a) of OAC rule 3745-14-01, for a control period in a year prior to the year for which the NOx allowance was allocated.  
[OAC rule 3745-14-01(E)(3)(e)]

- 4.h** Each ton of NOx emitted in excess of the NOx budget emission limitation, as defined in OAC rule 3745-14-01(B)(2)(yy), shall constitute a separate violation of OAC Chapter 3745-14, the Clean Air Act, and applicable Ohio law. The owners and operators of a NOx budget unit that has excess emissions in any control period shall surrender the NOx allowances required for deduction under paragraph (E)(4)(a) of OAC rule 3745-14-06 and pay any fine, penalty, or assessment or comply with any other remedy imposed under paragraph (E)(4)(c) of OAC rule 3745-14-06.  
[OAC rules 3745-14-01(E)(3)(b), 3745-14-01(E)(4)(a) and 3745-14-01(E)(4)(b)]

**A. State and Federally Enforceable Section (continued)**

Each ton of NOx emitted in excess of the NOx budget emission limitation, as defined in OAC rule 3745-14-01(B)(2)(yy), shall constitute a separate violation of OAC Chapter 3745-14, the Clean Air Act, and applicable Ohio law. The owners and operators of a NOx budget unit that has excess emissions in any control period shall surrender the NOx allowances required for deduction under paragraph (E)(4)(a) of OAC rule 3745-14-06 and pay any fine, penalty, or assessment or comply with any other remedy imposed under paragraph (E)(4)(c) of OAC rule 3745-14-06.

[OAC rules 3745-14-01(E)(3)(b), 3745-14-01(E)(4)(a) and 3745-14-01(E)(4)(b)]

- 4.i** When recorded by the Administrator pursuant to OAC rules 3745-14-06 and 3745-14-07, every allocation, transfer, or deduction of a NOx allowance to or from a NOx budget unit's compliance account or the overdraft account of the source where the unit is located is deemed to amend automatically, and become a part of, any NOx budget permit of the NOx budget unit by operation of law without any further review.

[OAC rule 3745-14-01(E)(3)(h)]

When recorded by the Administrator pursuant to OAC rules 3745-14-06 and 3745-14-07, every allocation, transfer, or deduction of a NOx allowance to or from a NOx budget unit's compliance account or the overdraft account of the source where the unit is located is deemed to amend automatically, and become a part of, any NOx budget permit of the NOx budget unit by operation of law without any further review.

[OAC rule 3745-14-01(E)(3)(h)]

- 4.j** Except as provided below, the Director shall revise the NOx budget permit, as necessary, in accordance with OAC rule 3745-77-08.

Each NOx budget permit is deemed to incorporate automatically the definitions of terms under paragraph (B) of OAC rule 3745-14-01 and, when recorded by the Administrator, in accordance with OAC rules 3745-14-06 and 3745-14-07, every allocation, transfer, or deduction of a NOx allowance to or from the compliance accounts of the NOx budget units covered by the permit or the overdraft account of the NOx budget source covered by the permit.

[OAC rules 3745-14-03(D)(2) and 3745-14-03(E)(1)]

Except as provided below, the Director shall revise the NOx budget permit, as necessary, in accordance with OAC rule 3745-77-08.

Each NOx budget permit is deemed to incorporate automatically the definitions of terms under paragraph (B) of OAC rule 3745-14-01 and, when recorded by the Administrator, in accordance with OAC rules 3745-14-06 and 3745-14-07, every allocation, transfer, or deduction of a NOx allowance to or from the compliance accounts of the NOx budget units covered by the permit or the overdraft account of the NOx budget source covered by the permit.

[OAC rules 3745-14-03(D)(2) and 3745-14-03(E)(1)]

- 4.k** The owner or operator of a NOx budget unit shall comply with the prohibitions under OAC rule 3745-14-08(A)(5).

[OAC rule 3745-14-08(A)(5)]

The owner or operator of a NOx budget unit shall comply with the prohibitions under OAC rule 3745-14-08(A)(5).

[OAC rule 3745-14-08(A)(5)]

**A. State and Federally Enforceable Section (continued)**

**4.I** The owners and operators of the NOx budget unit shall keep on site at the source each of the following documents for a period of five years from the date the document is created: (This period may be extended for cause, at any time prior to the end of five years, in writing by the Director or Administrator.)

i. the account certificate of representation for the NOx authorized account representative for the NOx budget unit and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with paragraph (D) of OAC rule 3745-14-02, provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new account certificate or representation changing the NOx authorized account representative;

ii. all emission monitoring information, in accordance with OAC rule 3745-14-08;

iii. copies of all reports, compliance certifications, and other submissions and all records made or required under the NOx budget trading program; and

iv. copies of all documents used to complete a NOx budget permit application and any other submission under the NOx budget trading program or to demonstrate compliance with the requirements of the NOx budget trading program.

[OAC rule 3745-14-01(E)(5)(a)(i) through (iv)]

The owners and operators of the NOx budget unit shall keep on site at the source each of the following documents for a period of five years from the date the document is created: (This period may be extended for cause, at any time prior to the end of five years, in writing by the Director or Administrator.)

i. the account certificate of representation for the NOx authorized account representative for the NOx budget unit and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with paragraph (D) of OAC rule 3745-14-02, provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new account certificate or representation changing the NOx authorized account representative;

ii. all emission monitoring information, in accordance with OAC rule 3745-14-08;

iii. copies of all reports, compliance certifications, and other submissions and all records made or required under the NOx budget trading program; and

iv. copies of all documents used to complete a NOx budget permit application and any other submission under the NOx budget trading program or to demonstrate compliance with the requirements of the NOx budget trading program.

[OAC rule 3745-14-01(E)(5)(a)(i) through (iv)]

**A. State and Federally Enforceable Section (continued)**

- 4.m** The permittee shall operate and maintain equipment to continuously monitor and record nitrogen oxides emissions from these emissions units in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75.

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software. This includes all systems required to monitor the NO<sub>x</sub> emission rate, NO<sub>x</sub> concentration, heat input rate, and stack flow rate, in accordance with 40 CFR Parts 75.71 and 75.72.

The permittee shall comply with the initial and re-certification procedures of 40 CFR Part 75. The permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous nitrogen oxides monitoring system has been certified in accordance with 40 CFR Part 75. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous nitrogen oxides monitoring system: emissions of nitrogen oxides in lb/mmBtu actual heat input on an hourly average basis, emissions of nitrogen oxides in lbs/hr, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

Whenever the monitoring system fails to meet the quality assurance or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.

[OAC rules 3745-14-01(E)(2)(a), 3745-14-01(E)(5)(a)(ii), 3745-14-08(A)(2)(a) through (A)(2)(d), 3745-14-08(B)(1), and 3745-14-08(C)(1)]

The permittee shall operate and maintain equipment to continuously monitor and record nitrogen oxides emissions from these emissions units in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75.

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software. This includes all systems required to monitor the NO<sub>x</sub> emission rate, NO<sub>x</sub> concentration, heat input rate, and stack flow rate, in accordance with 40 CFR Parts 75.71 and 75.72.

The permittee shall comply with the initial and re-certification procedures of 40 CFR Part 75. The permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous nitrogen oxides monitoring system has been certified in accordance with 40 CFR Part 75. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous nitrogen oxides monitoring system: emissions of nitrogen oxides in lb/mmBtu actual heat input on an hourly average basis, emissions of nitrogen oxides in lbs/hr, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

Whenever the monitoring system fails to meet the quality assurance or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.

[OAC rules 3745-14-01(E)(2)(a), 3745-14-01(E)(5)(a)(ii), 3745-14-08(A)(2)(a) through (A)(2)(d), 3745-14-08(B)(1), and 3745-14-08(C)(1)]

- 4.n** The permittee shall comply with the monitoring plan requirements of 40 CFR Part 75.62, except that the monitoring plan shall also include all of the information required by Subpart H of 40 CFR Part 75. [OAC rule 3745-14-08(E)(2)(a)]

The permittee shall comply with the monitoring plan requirements of 40 CFR Part 75.62, except that the monitoring plan shall also include all of the information required by Subpart H of 40 CFR Part 75. [OAC rule 3745-14-08(E)(2)(a)]

**A. State and Federally Enforceable Section (continued)**

- 4.o** The NOx authorized account representative of the NOx budget unit shall submit the reports and compliance certifications required under the NOx budget trading program, including those under OAC rules 3745-14-04 and 3745-14-08, to the Director and Administrator.  
[OAC rule 3745-14-01(E)(5)(b)]

The NOx authorized account representative of the NOx budget unit shall submit the reports and compliance certifications required under the NOx budget trading program, including those under OAC rules 3745-14-04 and 3745-14-08, to the Director and Administrator.  
[OAC rule 3745-14-01(E)(5)(b)]

- 4.p** Each submission under the NOx budget trading program shall be submitted, signed, and certified by the NOx authorized account representative for each NOx budget source on behalf of which the submission is made. Each such submission shall include the following certification statement by the NOx authorized account representative:

"I am authorized to make this submission on behalf of the owners and operators of the NOx budget sources or NOx budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

If the NOx authorized account representative for a NOx budget unit subject to an acid rain emission limitation who signed and certified any submission that is made under Subpart F or G of 40 CFR Part 75 and which includes data and information required under OAC rule 3745-14-08 or Subpart H of 40 CFR Part 75 is not the same person as the designated representative or the alternate designated representative for the unit under 40 CFR Part 72, then the submission shall also be signed by the designated representative or the alternate designated representative.

[OAC rules 3745-14-02(A)(5) and 3745-14-08(E)(1)(b)]

Each submission under the NOx budget trading program shall be submitted, signed, and certified by the NOx authorized account representative for each NOx budget source on behalf of which the submission is made. Each such submission shall include the following certification statement by the NOx authorized account representative:

"I am authorized to make this submission on behalf of the owners and operators of the NOx budget sources or NOx budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

If the NOx authorized account representative for a NOx budget unit subject to an acid rain emission limitation who signed and certified any submission that is made under Subpart F or G of 40 CFR Part 75 and which includes data and information required under OAC rule 3745-14-08 or Subpart H of 40 CFR Part 75 is not the same person as the designated representative or the alternate designated representative for the unit under 40 CFR Part 72, then the submission shall also be signed by the designated representative or the alternate designated representative.

[OAC rules 3745-14-02(A)(5) and 3745-14-08(E)(1)(b)]

- 4.q** The NOx authorized account representative shall submit quarterly reports that include all of the data and information required in Subpart H of 40 CFR Part 75 for each NOx budget unit (or group of units using a common stack) and the data and information in Subpart G of 40 CFR Part 75. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30 and October 30 of each year and shall be submitted in the manner specified in Subpart H of 40 CFR Part 75 and 40 CFR Part 75.64.  
[OAC rules 3745-14-08(E)(4)(a) and 3745-14-08(E)(4)(c)(i)]

**A. State and Federally Enforceable Section (continued)**

The NOx authorized account representative shall submit quarterly reports that include all of the data and information required in Subpart H of 40 CFR Part 75 for each NOx budget unit (or group of units using a common stack) and the data and information in Subpart G of 40 CFR Part 75. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30 and October 30 of each year and shall be submitted in the manner specified in Subpart H of 40 CFR Part 75 and 40 CFR Part 75.64.  
[OAC rules 3745-14-08(E)(4)(a) and 3745-14-08(E)(4)(c)(i)]

**4.r** The NOx authorized account representative shall submit to the Administrator a compliance certification in support of each quarterly report based on a reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The compliance certification shall state that:

i. the monitoring data submitted were recorded in accordance with the applicable requirements of OAC rule 3745-14-08 and 40 CFR Part 75, including the quality assurance procedures and specifications; and

ii. for a unit with add-on NOx emission controls and for all hours where data are substituted in accordance with 40 CFR Part 75.34(a)(1), the add-on emission control were operating within the range of parameters listed in the quality assurance program under Appendix B of 40 CFR Part 75 and the substitute values do not systematically underestimate the NOx emissions.  
[OAC rule 3745-14-08(E)(4)(d)(i) and (ii)]

The NOx authorized account representative shall submit to the Administrator a compliance certification in support of each quarterly report based on a reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The compliance certification shall state that:

i. the monitoring data submitted were recorded in accordance with the applicable requirements of OAC rule 3745-14-08 and 40 CFR Part 75, including the quality assurance procedures and specifications; and

ii. for a unit with add-on NOx emission controls and for all hours where data are substituted in accordance with 40 CFR Part 75.34(a)(1), the add-on emission control were operating within the range of parameters listed in the quality assurance program under Appendix B of 40 CFR Part 75 and the substitute values do not systematically underestimate the NOx emissions.  
[OAC rule 3745-14-08(E)(4)(d)(i) and (ii)]

**4.s** The NOx authorized account representative for a NOx budget unit shall submit written notice of monitoring system certification and re-certification test dates to the Director and the Administrator in accordance with 40 CFR Part 75.61. The NOx authorized account representative shall submit a certification application to the Administrator, U.S. EPA, Region V Office, and the Director within forty-five days after completing all initial or re-certification tests required under paragraph (B) of OAC rule 3745-14-08, including the information required under Subpart H of 40 CFR Part 75.  
[OAC rules 3745-14-08(D) and 3745-14-08(E)(3)]

The NOx authorized account representative for a NOx budget unit shall submit written notice of monitoring system certification and re-certification test dates to the Director and the Administrator in accordance with 40 CFR Part 75.61. The NOx authorized account representative shall submit a certification application to the Administrator, U.S. EPA, Region V Office, and the Director within forty-five days after completing all initial or re-certification tests required under paragraph (B) of OAC rule 3745-14-08, including the information required under Subpart H of 40 CFR Part 75.  
[OAC rules 3745-14-08(D) and 3745-14-08(E)(3)]

**A. State and Federally Enforceable Section (continued)**

**4.t** For each control period in which one or more NOx budget units at a source are subject to the NOx budget emission limitation, the NOx authorized account representative of the source shall submit to the Director and the Administrator, by November 30 of that year, a compliance certification report for each source covering all such units.

The NOx authorized account representative shall include the following elements in the compliance certification report, in a format prescribed by the Administrator, concerning each unit at the source and subject to the NOx budget emission limitation for the control period covered by the report:

- i. identification of each NOx budget unit;
- ii. at the NOx authorized account representative's option, the serial numbers of the NOx allowances that are to be deducted from each unit's compliance account under paragraph (E) of OAC rule 3745-14-06 for the control period;
- iii. at the NOx authorized account representative's option, for units sharing a common stack and having NOx emissions that are not monitored separately or apportioned in accordance with OAC rule 3745-14-08, the percentage of allowances that is to be deducted from each unit's compliance account under paragraph (E)(5) of OAC rule 3745-14-06; and
- iv. the compliance certification under paragraph (A)(3) of OAC rule 3745-14-04.  
[OAC rules 3745-14-04(A)(1) and 3745-14-04(A)(2)]

For each control period in which one or more NOx budget units at a source are subject to the NOx budget emission limitation, the NOx authorized account representative of the source shall submit to the Director and the Administrator, by November 30 of that year, a compliance certification report for each source covering all such units.

The NOx authorized account representative shall include the following elements in the compliance certification report, in a format prescribed by the Administrator, concerning each unit at the source and subject to the NOx budget emission limitation for the control period covered by the report:

- i. identification of each NOx budget unit;
- ii. at the NOx authorized account representative's option, the serial numbers of the NOx allowances that are to be deducted from each unit's compliance account under paragraph (E) of OAC rule 3745-14-06 for the control period;
- iii. at the NOx authorized account representative's option, for units sharing a common stack and having NOx emissions that are not monitored separately or apportioned in accordance with OAC rule 3745-14-08, the percentage of allowances that is to be deducted from each unit's compliance account under paragraph (E)(5) of OAC rule 3745-14-06; and
- iv. the compliance certification under paragraph (A)(3) of OAC rule 3745-14-04.  
[OAC rules 3745-14-04(A)(1) and 3745-14-04(A)(2)]

**A. State and Federally Enforceable Section (continued)**

**4.u** In the compliance certification report under Section A.4.t.iv above, the NOx authorized account representative shall certify, based upon reasonable inquiry of those persons with the primary responsibility for operating the source and the NOx budget units at the source in compliance with the NOx budget trading program, whether each NOx budget unit for which the compliance certification is submitted was operated during the calendar year covered by the report in compliance with the requirements of the NOx budget trading program applicable to the unit, including all the following:

- i. whether the unit was operated in compliance with the NOx budget emission limitation;
- ii. whether the monitoring plan that governs the unit has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute NOx emissions to the unit, in accordance with OAC rule 3745-14-08;
- iii. whether all the NOx emissions from the unit, or group of units (including the unit) using a common stack, were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported in the quarterly reports in accordance with OAC rule 3745-14-08, and if conditional data were reported, the permittee shall indicate whether the status of all conditional data has been resolved and all necessary quarterly report submissions have been made; and
- iv. whether the facts that form the basis for certification under OAC rule 3745-14-08 of each monitor at the unit or group of units (including the unit) using a common stack, or for using an excepted monitoring method or alternative monitoring method approved under OAC rule 3745-14-08, if any, have changed.

If a change is required to be reported under Section A.4.u.iv above, specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor re-certification.

[OAC rule 3745-14-04(A)(3)]

In the compliance certification report under Section A.4.t.iv above, the NOx authorized account representative shall certify, based upon reasonable inquiry of those persons with the primary responsibility for operating the source and the NOx budget units at the source in compliance with the NOx budget trading program, whether each NOx budget unit for which the compliance certification is submitted was operated during the calendar year covered by the report in compliance with the requirements of the NOx budget trading program applicable to the unit, including all the following:

- i. whether the unit was operated in compliance with the NOx budget emission limitation;
- ii. whether the monitoring plan that governs the unit has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute NOx emissions to the unit, in accordance with OAC rule 3745-14-08;
- iii. whether all the NOx emissions from the unit, or group of units (including the unit) using a common stack, were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported in the quarterly reports in accordance with OAC rule 3745-14-08, and if conditional data were reported, the permittee shall indicate whether the status of all conditional data has been resolved and all necessary quarterly report submissions have been made; and
- iv. whether the facts that form the basis for certification under OAC rule 3745-14-08 of each monitor at the unit or group of units (including the unit) using a common stack, or for using an excepted monitoring method or alternative monitoring method approved under OAC rule 3745-14-08, if any, have changed.

If a change is required to be reported under Section A.4.u.iv above, specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor re-certification.

[OAC rule 3745-14-04(A)(3)]

**A. State and Federally Enforceable Section (continued)**

- 4.v** The NOx authorized account representative shall submit a complete NOx budget permit renewal application for the NOx budget source covering the NOx budget units at the source in accordance with paragraph (E) of OAC rule 3745-77-08.  
[OAC rule 3745-14-03(B)(3)(a)]

The NOx authorized account representative shall submit a complete NOx budget permit renewal application for the NOx budget source covering the NOx budget units at the source in accordance with paragraph (E) of OAC rule 3745-77-08.  
[OAC rule 3745-14-03(B)(3)(a)]

- 4.w** The emission measurements recorded and reported in accordance with OAC rule 3745-14-08 shall be used to determine compliance by the unit with the NOx budget emission limitation under paragraph (E)(3) of OAC rule 3745-14-01.  
[OAC rule 3745-14-01(E)(2)(b)]

The emission measurements recorded and reported in accordance with OAC rule 3745-14-08 shall be used to determine compliance by the unit with the NOx budget emission limitation under paragraph (E)(3) of OAC rule 3745-14-01.  
[OAC rule 3745-14-01(E)(2)(b)]

- 4.x** The permittee shall develop and maintain a written quality assurance/quality control plan for each continuous NOx monitoring system designed to ensure continuous valid and representative readings of NOx emissions in units of the applicable standard. The plan shall follow the requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook dedicated to the continuous NOx monitoring system must be kept on-site and available for inspection during regular office hours.  
[OAC rules 3745-14-08(A)(2)(c) and 3745-14-08(A)(2)(d)]

The permittee shall develop and maintain a written quality assurance/quality control plan for each continuous NOx monitoring system designed to ensure continuous valid and representative readings of NOx emissions in units of the applicable standard. The plan shall follow the requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook dedicated to the continuous NOx monitoring system must be kept on-site and available for inspection during regular office hours.  
[OAC rules 3745-14-08(A)(2)(c) and 3745-14-08(A)(2)(d)]

- 5.** The permittee shall comply with all applicable provisions specified in 40 CFR Part 82, Subparts B and F as related to the operations at this facility.

The permittee shall comply with all applicable provisions specified in 40 CFR Part 82, Subparts B and F as related to the operations at this facility.

- 6.** The following insignificant emissions units are located at this facility:

T001 - No. 2 fuel oil storage tank (3.4 million-gallon) [PTI 02-0000];  
Z005 - 1A peaker lube oil reservoir (1700-gallon);  
Z006 - 1B peaker lube oil reservoir (1700-gallon);  
Z007 - 1C peaker lube oil reservoir;  
Z008 - main unit peakers lube oil storage tank;  
Z009 - E.H.C. oil tank; and  
Z011 - 1C lube oil vapor extractor.

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 of the applicable requirements contained in the federally-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21.

**A. State and Federally Enforceable Section (continued)**

The following insignificant emissions units are located at this facility:

T001 - No. 2 fuel oil storage tank (3.4 million-gallon) [PTI 02-0000];  
Z005 - 1A peaker lube oil reservoir (1700-gallon);  
Z006 - 1B peaker lube oil reservoir (1700-gallon);  
Z007 - 1C peaker lube oil reservoir;  
Z008 - main unit peakers lube oil storage tank;  
Z009 - E.H.C. oil tank; and  
Z011 - 1C lube oil vapor extractor.

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 of the applicable requirements contained in the federally-approved versions of OAC Chapters 3745-17, 3745-18, and/or 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 requirement (as defined in OAC rule 3745-77-01(H)) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

T001 - No. 2 fuel oil storage tank (3.4 million-gallon);  
Z005 - 1A peaker lube oil reservoir (1700-gallon);  
Z006 - 1B peaker lube oil reservoir (1700-gallon);  
Z007 - 1C peaker lube oil reservoir;  
Z008 - main unit peakers lube oil storage tank;  
Z009 - E.H.C. oil tank; and  
Z011 - 1C lube oil vapor extractor.

The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirement (as defined in OAC rule 3745-77-01(H)) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

T001 - No. 2 fuel oil storage tank (3.4 million-gallon);  
Z005 - 1A peaker lube oil reservoir (1700-gallon);  
Z006 - 1B peaker lube oil reservoir (1700-gallon);  
Z007 - 1C peaker lube oil reservoir;  
Z008 - main unit peakers lube oil storage tank;  
Z009 - E.H.C. oil tank; and  
Z011 - 1C lube oil vapor extractor.

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

**Emissions Unit ID:** GENERAL ELECTRIC CT-1A (B001)  
**Activity Description:** GENERAL ELECTRIC MODEL 7000 COMBUSTION 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
GE model 7000, distillate oil-fired (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding number 4 fuel oil) combustion turbine, having a nominal capacity of 810.7 mmBtu/hr (CT-1A; B001).	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(4)	Particulate emissions shall not exceed 0.040 lb/mmBtu actual heat input.
	OAC rule 3745-18-06(F)	Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu actual heat input.

##### 2. Additional Terms and Conditions

- 2.a This emissions unit is not currently subject to the requirements specified in 40 CFR Part 60, Subpart GG - Standards of Performance for Stationary Gas Turbines.

##### II. Operational Restrictions

1. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I above.
2. The permittee shall burn only distillate oil in this emissions unit.

### 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(F).) 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(F).)

2. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.
3. For each day during which the permittee burns a prohibited fuel (i.e., one other than distillate 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 notify the Director (the Ohio EPA, Northeast District Office) 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 Ohio EPA, Northeast District Office) within 45 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day when a prohibited fuel (i.e., one other than distillate oil) was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
  - 1.a Emission Limitation-  
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method-

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)**

**1.b** Emission Limitation-  
Particulate emissions shall not exceed 0.040 lb/mmBtu actual heat input.

Applicable Compliance Method-  
Compliance may be based upon an emission factor of 0.0043 lb/mmBtu. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

**1.c** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu actual heat input.

Applicable Compliance Method-  
Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received or each daily sample collected during a calendar month meets the limitation.

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

**VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

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

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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

**Emissions Unit ID:** GENERAL ELECTRIC CT-1B (B002)  
**Activity Description:** GENERAL ELECTRIC MODEL 7000 COMBUSTION 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
GE model 7000, distillate oil-fired (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding number 4 fuel oil) combustion turbine, having a nominal capacity of 810.7 mmBtu/hr (CT-1B; B002).	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(4)	Particulate emissions shall not exceed 0.040 lb/mmBtu actual heat input.
	OAC rule 3745-18-06(F)	Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu actual heat input.

##### 2. Additional Terms and Conditions

- 2.a This emissions unit is not currently subject to the requirements specified in 40 CFR Part 60, Subpart GG - Standards of Performance for Stationary Gas Turbines.

##### II. Operational Restrictions

1. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I above.
2. The permittee shall burn only distillate oil in this emissions unit.

### 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(F).) 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(F).)

2. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.
3. For each day during which the permittee burns a prohibited fuel (i.e., one other than distillate 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 notify the Director (the Ohio EPA, Northeast District Office) 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 Ohio EPA, Northeast District Office) within 45 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day when a prohibited fuel (i.e., one other than distillate oil) was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
  - 1.a Emission Limitation-  
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method-

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)**

- 1.b** Emission Limitation-  
Particulate emissions shall not exceed 0.040 lb/mmBtu actual heat input.

Applicable Compliance Method-

Compliance may be based upon an emission factor of 0.0043 lb/mmBtu. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

- 1.c** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu actual heat input.

Applicable Compliance Method-

Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received or each daily sample collected during a calendar month meets the limitation.

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

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

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

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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

**Emissions Unit ID:** AUX. BOILER, A (B003)

**Activity Description:** AUX. BOILER, ERIE DISTILLATE OIL-FIRED STEAM BOILER

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Erie, distillate oil-fired (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding number 4 fuel oil) steam boiler, having a nominal capacity of 56.6 mmBtu/hr (Aux. Boiler A; B003).	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 lb/mmBtu actual heat input.
	OAC rule 3745-18-53(A)(1)	Sulfur dioxide emissions shall not exceed 2.32 lbs/mmBtu actual heat input.

##### 2. Additional Terms and Conditions

- 2.a This emissions unit is not currently subject to the requirements specified in 40 CFR Part 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.

##### II. Operational Restrictions

1. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I above.
2. The permittee shall burn only distillate oil in this emissions unit.

### 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(F).) 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(F).)

2. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.
3. For each day during which the permittee burns a prohibited fuel (i.e., one other than distillate 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 notify the Director (the Ohio EPA, Northeast District Office) 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 Ohio EPA, Northeast District Office) within 45 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day when a prohibited fuel (i.e., one other than distillate oil) was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
  - 1.a Emission Limitation-  
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method-

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)**

- 1.b** Emission Limitation-  
Particulate emissions shall not exceed 0.020 lb/mmBtu actual heat input.

Applicable Compliance Method-

Compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (410 gallons/hr) by the AP-42 emission factor for distillate oil (2.0 lbs of particulate/1000 gallons - Section 1.3, Table 1.3-1 (9/98)), and dividing by the maximum hourly heat input capacity of the emissions unit (56.6 mmBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

- 1.c** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 2.32 lbs/mmBtu actual heat input.

Applicable Compliance Method-

Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received or each daily sample collected during a calendar month meets the limitation.

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

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

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

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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

**Emissions Unit ID:** AUX. BOILER, B (B006)  
**Activity Description:** AUX. BOILER, OIL-FIRED STEAM BOILER

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Distillate oil-fired (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding number 4 fuel oil) steam boiler, having a nominal capacity of 10.4 mmBtu/hr (Aux. Boiler B; B006).	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 lb/mmBtu actual heat input.
	OAC rule 3745-18-53(A)(1)	Sulfur dioxide emissions shall not exceed 5.87 lbs/mmBtu actual heat input.
	OAC rule 3745-21-08(B)	See A.1.2.b below.
	OAC rule 3745-23-06(B)	See A.1.2.c below.
	OAC rule 3745-31-05(A)(3) (PTI No. 19-102)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1) and 3745-18-53(A)(1).

##### 2. Additional Terms and Conditions

- This emissions unit is not currently subject to the requirements specified in 40 CFR Part 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.
- The design of the emissions unit and the technology associated with the current operating practices will satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08.

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. Additional Terms and Conditions (continued)

- 2.c The design of the emissions unit and the technology associated with the current operating practices will satisfy the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06.

## II. Operational Restrictions

1. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I above.
2. The permittee shall burn only distillate oil in this emissions unit.

## 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(F).) 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(F).)

2. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.
3. For each day during which the permittee burns a prohibited fuel (i.e., one other than distillate 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 notify the Director (the Ohio EPA, Northeast District Office) 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 Ohio EPA, Northeast District Office) within 45 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day when a prohibited fuel (i.e., one other than distillate oil) was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

## V. Testing Requirements

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

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

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

Applicable Compliance Method-

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).

- 1.b** Emission Limitation-  
Particulate emissions shall not exceed 0.020 lb/mmBtu actual heat input.

Applicable Compliance Method-

Compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (75 gallons/hr) by the AP-42 emission factor for distillate oil (2.0 lbs of particulate/1000 gallons - Section 1.3, Table 1.3-1 (10/96)), and dividing by the maximum hourly heat input capacity of the emissions unit (10.4 mmBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

- 1.c** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 5.87 lbs/mmBtu actual heat input.

Applicable Compliance Method-

Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received or each daily sample collected during a calendar month meets the limitation.

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

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

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

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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

**Emissions Unit ID:** GE CT Unit # 2 (P001)

**Activity Description:** GENERAL ELECTRIC COMBUSTION TURBINE MODEL 7EA

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Simple cycle stationary combustion turbine having a nominal power production rating of 85 MW and a nominal heat input, at full load at ISO standard conditions, of 865.7 mmBtu/hour when firing natural gas and 932.9 mmBtu/hour when firing distillate oil (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding number 4 fuel oil). (P001 - CT Unit #2)	40 CFR Part 52.21 and OAC rules 3745-31-10 through 3745-31-20 (PTI No. 02-13376)	<p>When firing natural gas, particulate/PM10** emissions from this emissions unit shall not exceed 5.0 lbs/hour.</p> <p>When firing distillate oil, particulate/PM10** emissions from this emissions unit shall not exceed 10.0 lbs/hour.</p> <p>Particulate/PM10** emissions from emissions units P001 through P005, combined shall not exceed 75.5 tons per rolling, 12-month period.</p>

\*\*The total PM10 emissions were evaluated and did not trigger any additional federal requirements, therefore, the emissions are being regulated as particulate emissions.

**Operations, Property,  
and/or Equipment**

**Applicable Rules/  
Requirements**

**Applicable Emissions  
Limitations/Control  
Measures**

When firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 9 ppmv at 15% oxygen on a dry basis, as a rolling, 12-month average and 15 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

When firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 42 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

See A.I.2.k below.

Nitrogen oxides emissions from this emissions unit (including startup and shutdown emissions) shall not exceed 125.9 tons per rolling, 12-month period.

Carbon monoxide emissions from this emissions unit shall not exceed 83.0 lbs/hour.

Carbon monoxide emissions from emissions units P001 through P005, combined shall not exceed 499.9 tons per rolling, 12-month period.

When firing natural gas, organic compound emissions from this emissions unit shall not exceed 10.0 lbs/hour.

When firing distillate oil, organic compound emissions from this emissions unit shall not exceed 11.0 lbs/hour.

Organic compound emissions from emissions units P001 through P005, combined shall not exceed 122.0 tons per rolling, 12-month period.

See A.I.2.a below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-31-05(C) (Synthetic minor restrictions to avoid PSD rule requirements.) (PTI No. 02-13376)	When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.007 lb/mmBtu, actual heat input.  When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 0.3 lb/mmBtu, actual heat input.  Sulfur dioxide emissions from emissions units P001 through P005, combined shall not exceed 39.9 tons per rolling, 12-month period.  See A.I.2.b, A.II.1, and A.II.2 below. When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 0.033 lb/mmBtu, actual heat input.  Sulfuric acid mist emissions from emissions units P001 through P005, combined shall not exceed 4.2 tons per rolling, 12-month period.
	OAC rule 3745-31-05(C) (Synthetic minor restrictions to avoid MACT rule requirements.) (PTI No. 02-13376)	When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed .000713 lb/mmBtu, actual heat input.  Formaldehyde emissions from emissions units P001 through P005, combined, shall not exceed 8.5 tons per rolling, 12-month period.
	OAC rule 3745-31-05(A)(3) (PTI No. 02-13376)	See A.I.2.c and A.II.3 below. When firing natural gas, visible particulate emissions from any stack serving this emissions unit shall not exceed 10% opacity as, a 6-minute average.  When firing distillate oil, visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as, a 6-minute average.

**Operations, Property,  
and/or Equipment**

**Applicable Rules/  
Requirements**

**Applicable Emissions  
Limitations/Control  
Measures**

During startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 175.0 lbs/hour.

During non-startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 143.0 lbs/hour.

During startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 235.0 lbs/hour.

During non-startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 215.0 lbs/hour.

When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.6 lb/hour.

When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 339.0 lbs/hour.

When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed 0.617 lb/hour.

When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 35.4 lbs/hour.

See A.I.2.d and A.I.2.e below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	40 CFR Part 60, Subpart GG	<p>The nitrogen oxides emission limitation specified by this rule is less stringent than the nitrogen oxides emission limitations established pursuant to 40 CFR Part 52 and OAC Chapter 3745-31.</p> <p>The sulfur dioxide emission limitation specified by this rule is less stringent than the sulfur dioxide emission limitations established pursuant to OAC rule 3745-31-05(C).</p>
	OAC rule 3745-17-07(A)	<p>See A.I.2.f below.</p> <p>The visible particulate emission limitations specified by this rule are less stringent than the visible particulate emission limitations established pursuant to OAC rule 3745-31-05(A)(3).</p>
	OAC rule 3745-17-11(B)(4)	<p>The particulate emission limitation specified by this rule is less stringent than the particulate/PM10 emission limitations established pursuant to 40 CFR Part 52 and OAC Chapter 3745-31.</p>
	OAC rule 3745-18-06(F)	<p>When firing distillate oil, the sulfur dioxide emission limitation specified by this rule is less stringent than the sulfur dioxide emission limitation established pursuant to OAC rule 3745-31-05(C).</p> <p>When firing natural gas, pursuant to OAC rule 3745-18-06(A), this emissions unit is exempt from the sulfur dioxide emission limitation specified by this rule.</p>
	OAC rule 3745-21-08(B)	<p>See A.I.2.g below.</p>
	OAC rule 3745-23-06(B)	<p>See A.I.2.h below.</p>

## 2. Additional Terms and Conditions

- 2.a** The following Best Available Control Technology (BACT) determinations have been made in accordance with the PSD regulations:

Particulate/PM10 emissions - the BACT determination is the use of only clean burning fuels (i.e., natural gas and distillate oil) in the combustion turbine and compliance with specified emission limitations.

Nitrogen oxides emissions - the BACT determination is the use of dry low-nitrogen oxides burners when firing natural gas, water injection into the combustion zone when firing distillate oil, and compliance with the ppm emission limitations.

Carbon monoxide emissions - the BACT determination is the use of the combustion technology inherent in the design of the combustion turbine.

Organic compound emissions - the BACT determination is the use of the combustion technology inherent in the design of the combustion turbine.

- 2.b** The annual sulfur dioxide emission limitation establishes the synthetic minor restriction which exempts emissions units P001 through P005 from the requirements of the PSD regulations for this pollutant.
- 2.c** The annual formaldehyde emission limitation establishes the synthetic minor restriction which exempts emissions units P001 through P005 from the requirements of the MACT regulations.
- 2.d** The Best Available Technology (BAT) determination required under OAC rule 3745-31-05(A)(3) includes compliance with the specified emission limitations and also includes compliance with the emission limitations and operating requirements specified by 40 CFR Part 52, OAC rules 3745-31-10 through 3745-31-20, and OAC rule 3745-31-05(C).
- 2.e** The hourly nitrogen oxides (non-startup and shutdown), sulfur dioxide, formaldehyde, and sulfuric acid mist emission limitations, established pursuant to OAC rule 3745-31-05(A)(3), reflect the potentials to emit for these pollutants for this emissions unit. Therefore, it is not necessary to develop any additional monitoring, record keeping, and/or reporting requirements to ensure compliance with these emission limitations.
- 2.f** The installation and operation of systems to continuously monitor and record emissions of NOx and the oxygen content of the exhaust gasses may be performed in lieu of continuously monitoring the ratio of water to fuel fired in the turbine and monitoring the nitrogen content of the fuel being fired in the turbine, as required by 40 CFR Part 60.334.
- In lieu of the excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess and emissions reports for this emissions unit in accordance with this permit.
- 2.g** 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 02-13376.
- 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.h** 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 02-13376.
- 2.i** "Full load" shall be defined as the electrical output at the maximum achievable fuel flow rate to the emissions unit for the ambient and equipment conditions during any operating hour. Any actual electrical output within 10% of the calculated electrical output shall be considered full load.

## 2. Additional Terms and Conditions (continued)

- 2.j "Startup/shutdown operation" or "startup and shutdown operation" occurs when the emissions unit is running at less than 50% of the electric output at full load.
- 2.k If the fuel fired in this emissions unit is switched from distillate oil to natural gas during any operating hour, the permittee shall comply with the distillate oil emission limitation for each such operating hour.

## II. Operational Restrictions

1. The sulfur content of the distillate oil fired in emissions units P001 through P005 shall not exceed 0.3%, by weight.
2. The quantity of distillate oil fired in emissions units P001 through P005, combined, shall not exceed 1,873,239 gallons per rolling, 12-month period.

The permittee may fire a greater quantity of distillate oil than is specified above if the distillate oil contains less than 0.3% sulfur, by weight, and compliance with the annual sulfur dioxide limitation (39.9 tons) is maintained. If distillate oil with a sulfur content less than 0.3% is fired, the permittee shall calculate and record the sulfur dioxide emission rate on a daily basis and use the daily emission rates to determine the total monthly sulfur dioxide emissions.

3. To ensure compliance with the annual formaldehyde emission limitation established pursuant to OAC rule 3745-31-05(C), the total operating hours for emissions units P001 through P005, combined, when firing natural gas, shall not exceed 27,155 hours per rolling, 12-month period.
4. The permittee shall only fire natural gas or distillate oil in this emissions unit.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain equipment to continuously monitor and record the nitrogen oxides emissions from this emissions unit in units of the applicable standards. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75.

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain records of the following data obtained by the continuous nitrogen oxides monitoring system: ppmvd at 15% oxygen, at full load (as defined in A.I.2.i), as a 1-hour average (when firing natural gas and distillate oil), ppmvd at 15% oxygen, as a rolling, 12-month average (when firing natural gas), lbs/hour, results of daily zero/span calibration checks, results of quarterly cylinder gas audits, linearity checks or relative accuracy test audits, and magnitude of manual calibration adjustments.

The permittee may conduct the relative accuracy test audits for the continuous nitrogen oxides monitoring system in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B; however, the permittee is still required to provide the audit results in units of the applicable standard(s), in accordance with 40 CFR Part 60. In addition, linearity checks conducted pursuant to 40 CFR Part 75, Appendix B, may be used in place of quarterly cylinder gas audits, as required in 40 CFR Part 60.

Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous nitrogen oxides monitoring system designed to ensure continuous valid and representative readings of nitrogen oxides emissions in units of the applicable standards. The plan shall follow the requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting activities related to the continuous nitrogen oxides monitoring system must be kept on site and available for inspection during regular office hours.

2. The permittee shall operate and maintain equipment to continuously monitor and record the percent oxygen in the stack serving this emissions unit when the emissions unit is in operation. The monitoring and recording equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

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

3. The permittee shall operate and maintain equipment to continuously monitor and record the fuel flow to this emissions unit when the emissions unit is in operation. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75. If the fuel flow monitoring and/or recording equipment is (are) not in service when the emissions unit is in operation, the permittee shall comply with the appropriate missing data procedures specified in 40 CFR Part 75.
4. The permittee shall monitor and analyze the sulfur content of the fuel being fired in this emissions unit in accordance with 40 CFR Parts 60.334 and 60.335.
5. The permittee shall maintain records that document the following:
  - a. the calculated full load for each operating hour;
  - b. the emissions unit's actual electrical output for each operating hour;
  - c. all periods of time when the emissions unit's actual electrical output was within 10% of the calculated full load; and
  - d. all periods of time when the emissions unit was operated at less than 50% of full load.
6. The permittee shall maintain monthly records that document the following:
  - a. the total amount of distillate oil fired in this emissions unit, in gallons;
  - b. the total amount of distillate oil fired in emissions units P001 through P005, combined, in gallons;
  - c. the rolling, 12-month summation of the distillate oil usage for emissions units P001 through P005, combined, in gallons;
  - d. the total number of hours this emissions unit was in operation and firing natural gas;
  - e. the total number of hours emissions units P001 through P005 were in operation and firing natural gas;
  - f. the rolling, 12-month summation of the total number of hours emissions units P001 through P005, combined, were in operation and firing natural gas;
  - g. the startup and shutdown emissions\* for nitrogen oxides, in tons;
  - h. the total particulate/PM10, nitrogen oxides (including startup and shutdown emissions), carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and formaldehyde emissions\* for this emissions unit, in tons;
  - i. the total particulate/PM10, carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and formaldehyde emissions for emissions units P001 through P005, combined, in tons;
  - j. the rolling, 12-month summation of the nitrogen oxides (including startup and shutdown emissions) emissions for this emissions unit, in tons; and
  - k. the rolling, 12-month summation of the particulate/PM10, carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and formaldehyde emissions for emissions units P001 through P005, combined, in tons.

\* The permittee shall use the continuous nitrogen oxides emission monitoring data to determine the nitrogen oxides emissions for these emissions units. During any period when the continuous nitrogen oxides emission monitoring system is not operational, the permittee shall use the appropriate missing data procedures specified in 40 CFR Part 75 to determine the rolling, 12-month nitrogen oxides emissions. The permittee shall use the most recent emission test data or specified emission factor(s) to determine the particulate/PM10, carbon monoxide, organic compound, sulfuric acid mist, and formaldehyde emissions for these emissions units. The permittee shall use the most recent emission test data or the fuel flow and fuel sulfur content data to determine the sulfur dioxide emissions for these emissions units.

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

7. For each day during which the permittee fires a fuel other than natural gas or distillate oil, the permittee shall maintain a record of the type and quantity of fuel fired in this emissions unit.

### IV. Reporting Requirements

1. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA, Northeast District Office documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of nitrogen oxides values in excess of the applicable emission limitations specified in the terms and conditions of this permit (15 ppmvd at 15% oxygen (at full load (as defined in A.1.2.i), as a 1-hr average and 9 ppmvd at 15% oxygen, as a rolling, 12-month average) when firing natural gas and 42 ppmvd at 15% oxygen (at full load (as defined in A.1.2.i), as a 1-hr average) when firing distillate oil).

The reports shall also document any continuous nitrogen oxides monitoring system downtime while the emissions unit was on line (date, time, duration, and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

The permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60.7. The summary shall be submitted to the Ohio EPA, Northeast District Office within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

2. The permittee shall submit quarterly deviation (excursion) reports to the Ohio EPA, Northeast District Office that identify the following:
  - a. any time periods when distillate oil with a sulfur content greater than 0.3%, by weight, was fired in emissions units P001 through P005;
  - b. all exceedances of the rolling, 12-month distillate oil usage restriction for emissions units P001 through P005, combined, when firing distillate oil with a sulfur content of 0.3%, by weight;
  - c. all exceedances of the rolling, 12-month operating hour restriction for emissions units P001 through P005, combined, when firing natural gas;
  - d. each day when a fuel other than natural gas or distillate oil was fired in this emissions unit;
  - e. all exceedances of the rolling, 12-month nitrogen oxides emission limitation for this emissions unit; and
  - f. all exceedances of the rolling, 12-month particulate/PM10, carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and/or formaldehyde emission limitations for emissions units P001 through P005, combined.

The quarterly reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

## V. Testing Requirements

### 1. Emission Limitations:

When firing natural gas, particulate/PM10 emissions from this emissions unit shall not exceed 5.0 lbs/hour.

When firing distillate oil, particulate/PM10 emissions from this emissions unit shall not exceed 10.0 lbs/hour.

Particulate/PM10 emissions from emissions units P001 through P005, combined shall not exceed 75.5 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.0019 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 0.007 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is based upon the averaged results of the particulate emission testing conducted for this emissions unit on May 19, 2001.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factors specified above and the records required pursuant to Section A.III.

### 2. Emission Limitations:

When firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 9 ppmv at 15% oxygen on a dry basis, as a rolling, 12-month average and 15 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

During startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 175.0 lbs/hour.

When firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 42 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

During startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 235.0 lbs/hour.

Nitrogen oxides emissions from this emissions unit (including startup and shutdown emissions) shall not exceed 125.9 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the ppmvd at 15% oxygen and startup and shutdown emission limitations shall be demonstrated based upon the continuous nitrogen oxides emission monitoring system data.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the continuous nitrogen oxides emission monitoring system data and the records required pursuant to Section A.III.

## V. Testing Requirements (continued)

### 3. Emission Limitations:

Carbon monoxide emissions from this emissions unit shall not exceed 83.0 lbs/hour.

Carbon monoxide emissions from emissions units P001 through P005, combined shall not exceed 499.9 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.027 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is based upon the averaged results of the carbon monoxide emission testing conducted for this emissions unit in May of 2001.

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 0.004 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is based upon the averaged results of the carbon monoxide emission testing conducted for this emissions unit in May of 2001.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the records required pursuant to Section A.III.

### 4. Emission Limitations:

When firing natural gas, organic compound emissions from this emissions unit shall not exceed 10.0 lbs/hour.

When firing distillate oil, organic compound emissions from this emissions unit shall not exceed 11.0 lbs/hour.

Organic compound emissions from emissions units P001 through P005, combined shall not exceed 122.0 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.003 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is based upon the averaged results of the organic compound emission testing conducted for this emissions unit on June 14, 2001.

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 0.001 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is based upon the averaged results of the organic compound emission testing conducted for this emissions unit on June 14, 2001.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factors specified above and the records required pursuant to Section A.III.

## V. Testing Requirements (continued)

### 5. Emission Limitations:

When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.007 lb/mmBtu, actual heat input.

When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 0.3 lb/mmBtu, actual heat input.

Sulfur dioxide emissions from emissions units P001 through P005, combined shall not exceed 39.9 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the lb/mmBtu emission limitation when firing natural gas may be determined using the emission factor of 0.94S lb/mmBtu (where S equals the percent sulfur in the fuel) and the records required pursuant to Section A.III. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

Compliance with the lb/mmBtu emission limitation when firing distillate oil may be determined using the emission factor of 1.01S lb/mmBtu (where S equals the percent sulfur in the fuel) and the records required pursuant to Section A.III. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

Compliance with the lb/mmBtu emission limitations may also be demonstrated based upon the records required pursuant to Section A.III.

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

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the records required pursuant to Section A.III.

### 6. Emission Limitations:

When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 0.033 lb/mmBtu, actual heat input.

Sulfuric acid mist emissions from emissions units P001 through P005, combined shall not exceed 4.2 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance may be determined by using the emission factor of 0.02 lb/mmBtu. The emission factor is based upon the averaged results of the sulfuric acid mist emission testing conducted for this emissions unit on May 19, 2001.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 8.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factor specified above and the records required pursuant to Section A.III.

## V. Testing Requirements (continued)

### 7. Emission Limitations:

When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed .000713 lb/mmBtu, actual heat input.

Formaldehyde emissions from emissions units P001 through P005, combined, shall not exceed 8.5 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the lb/mmBtu emission limitation when firing natural gas may be determined by using the emission factor of 0.00071 lb/mmBtu. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-3 (4/00).

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 and 40 CFR Part 63, Appendix A, Method 320.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factor specified above and the records required pursuant to Section A.III.

### 8. Emission Limitations:

During non-startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 143.0 lbs/hour.

During non-startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 215.0 lbs/hour.

#### Applicable Compliance Methods:

Compliance with these hourly emission limitations may be demonstrated based upon the continuous nitrogen oxides emission monitoring system data.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

### 9. Emission Limitations:

When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.6 lb/hour.

When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 339.0 lbs/hour.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.94S lb/mmBtu (where S equals the percent sulfur in the fuel) by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00). The sulfur content of the fuel may be based upon the records required pursuant to Section A.III.

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 1.01S lb/mmBtu (where S equals the percent sulfur in the fuel) by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00). The sulfur content of the fuel may be based upon the records required pursuant to Section A.III.

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

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

### **10. Emission Limitation:**

When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed 0.617 lb/hour.

Applicable Compliance Method:

This emission limitation was established by multiplying the emission factor of 0.00071 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-3 (4/00).

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 40 CFR Part 63, Appendix A, Method 320.

### **11. Emission Limitation:**

When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 35.4 lbs/hour.

Applicable Compliance Method:

Compliance may be determined by multiplying the emission factor of 0.02 lb/mmBtu by the emissions unit's maximum heat input rating when firing distillate oil. The emission factor is based upon the averaged results of the sulfuric acid mist emission testing conducted for this emissions unit on May 19, 2001.

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 8.

### **12. Emission Limitations:**

When firing natural gas, visible particulate emissions from any stack serving this emissions unit shall not exceed 10% opacity as, a 6-minute average.

When firing distillate oil, visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as, a 6-minute average.

Applicable Compliance Method:

Compliance with these emission limitations shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

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

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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

**Emissions Unit ID:** GE CT Unit # 3 (P002)

**Activity Description:** GENERAL ELECTRIC COMBUSTION TURBINE MODEL 7EA

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Simple cycle stationary combustion turbine having a nominal power production rating of 85 MW and a nominal heat input, at full load at ISO standard conditions, of 865.7 mmBtu/hour when firing natural gas and 932.9 mmBtu/hour when firing distillate oil (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding number 4 fuel oil). (P002 - CT Unit #3)	40 CFR Part 52.21 and OAC rules 3745-31-10 through 3745-31-20 (PTI No. 02-13376)	<p>When firing natural gas, particulate/PM10** emissions from this emissions unit shall not exceed 5.0 lbs/hour.</p> <p>When firing distillate oil, particulate/PM10** emissions from this emissions unit shall not exceed 10.0 lbs/hour.</p> <p>Particulate/PM10** emissions from emissions units P001 through P005, combined shall not exceed 75.5 tons per rolling, 12-month period.</p> <p>**The total PM10 emissions were evaluated and did not trigger any additional federal requirements, therefore, the emissions are being regulated as particulate emissions.</p>

**Operations, Property,  
and/or Equipment**

**Applicable Rules/  
Requirements**

**Applicable Emissions  
Limitations/Control  
Measures**

When firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 9 ppmv at 15% oxygen on a dry basis, as a rolling, 12-month average and 15 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

When firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 42 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

See A.I.2.k below.

Nitrogen oxides emissions from this emissions unit (including startup and shutdown emissions) shall not exceed 125.9 tons per rolling, 12-month period.

Carbon monoxide emissions from this emissions unit shall not exceed 83.0 lbs/hour.

Carbon monoxide emissions from emissions units P001 through P005, combined shall not exceed 499.9 tons per rolling, 12-month period.

When firing natural gas, organic compound emissions from this emissions unit shall not exceed 10.0 lbs/hour.

When firing distillate oil, organic compound emissions from this emissions unit shall not exceed 11.0 lbs/hour.

Organic compound emissions from emissions units P001 through P005, combined shall not exceed 122.0 tons per rolling, 12-month period.

See A.I.2.a below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-31-05(C) (Synthetic minor restrictions to avoid PSD rule requirements.) (PTI No. 02-13376)	When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.007 lb/mmBtu, actual heat input.
		When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 0.3 lb/mmBtu, actual heat input.
		Sulfur dioxide emissions from emissions units P001 through P005, combined shall not exceed 39.9 tons per rolling, 12-month period.
		See A.I.2.b, A.II.1, and A.II.2 below. When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 0.033 lb/mmBtu, actual heat input.
		Sulfuric acid mist emissions from emissions units P001 through P005, combined shall not exceed 4.2 tons per rolling, 12-month period.
	OAC rule 3745-31-05(C) (Synthetic minor restrictions to avoid MACT rule requirements.) (PTI No. 02-13376)	When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed .000713 lb/mmBtu, actual heat input.
		Formaldehyde emissions from emissions units P001 through P005, combined, shall not exceed 8.5 tons per rolling, 12-month period.
		See A.I.2.c and A.II.3 below.
	OAC rule 3745-31-05(A)(3) (PTI No. 02-13376)	When firing natural gas, visible particulate emissions from any stack serving this emissions unit shall not exceed 10% opacity as, a 6-minute average.
		When firing distillate oil, visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as, a 6-minute average.

**Operations, Property,  
and/or Equipment**

**Applicable Rules/  
Requirements**

**Applicable Emissions  
Limitations/Control  
Measures**

During startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 175.0 lbs/hour.

During non-startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 143.0 lbs/hour.

During startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 235.0 lbs/hour.

During non-startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 215.0 lbs/hour.

When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.6 lb/hour.

When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 339.0 lbs/hour.

When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed 0.617 lb/hour.

When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 35.4 lbs/hour.

See A.I.2.d and A.I.2.e below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	40 CFR Part 60, Subpart GG	<p>The nitrogen oxides emission limitation specified by this rule is less stringent than the nitrogen oxides emission limitations established pursuant to 40 CFR Part 52 and OAC Chapter 3745-31.</p> <p>The sulfur dioxide emission limitation specified by this rule is less stringent than the sulfur dioxide emission limitations established pursuant to OAC rule 3745-31-05(C).</p>
	OAC rule 3745-17-07(A)	<p>See A.I.2.f below.</p> <p>The visible particulate emission limitations specified by this rule are less stringent than the visible particulate emission limitations established pursuant to OAC rule 3745-31-05(A)(3).</p>
	OAC rule 3745-17-11(B)(4)	<p>The particulate emission limitation specified by this rule is less stringent than the particulate/PM10 emission limitations established pursuant to 40 CFR Part 52 and OAC Chapter 3745-31.</p>
	OAC rule 3745-18-06(F)	<p>When firing distillate oil, the sulfur dioxide emission limitation specified by this rule is less stringent than the sulfur dioxide emission limitation established pursuant to OAC rule 3745-31-05(C).</p> <p>When firing natural gas, pursuant to OAC rule 3745-18-06(A), this emissions unit is exempt from the sulfur dioxide emission limitation specified by this rule.</p>
	OAC rule 3745-21-08(B)	<p>See A.I.2.g below.</p>
	OAC rule 3745-23-06(B)	<p>See A.I.2.h below.</p>

## 2. Additional Terms and Conditions

- 2.a** The following Best Available Control Technology (BACT) determinations have been made in accordance with the PSD regulations:

Particulate/PM10 emissions - the BACT determination is the use of only clean burning fuels (i.e., natural gas and distillate oil) in the combustion turbine and compliance with specified emission limitations.

Nitrogen oxides emissions - the BACT determination is the use of dry low-nitrogen oxides burners when firing natural gas, water injection into the combustion zone when firing distillate oil, and compliance with the ppm emission limitations.

Carbon monoxide emissions - the BACT determination is the use of the combustion technology inherent in the design of the combustion turbine.

Organic compound emissions - the BACT determination is the use of the combustion technology inherent in the design of the combustion turbine.

- 2.b** The annual sulfur dioxide emission limitation establishes the synthetic minor restriction which exempts emissions units P001 through P005 from the requirements of the PSD regulations for this pollutant.
- 2.c** The annual formaldehyde emission limitation establishes the synthetic minor restriction which exempts emissions units P001 through P005 from the requirements of the MACT regulations.
- 2.d** The Best Available Technology (BAT) determination required under OAC rule 3745-31-05(A)(3) includes compliance with the specified emission limitations and also includes compliance with the emission limitations and operating requirements specified by 40 CFR Part 52, OAC rules 3745-31-10 through 3745-31-20, and OAC rule 3745-31-05(C).
- 2.e** The hourly nitrogen oxides (non-startup and shutdown), sulfur dioxide, formaldehyde, and sulfuric acid mist emission limitations, established pursuant to OAC rule 3745-31-05(A)(3), reflect the potentials to emit for these pollutants for this emissions unit. Therefore, it is not necessary to develop any additional monitoring, record keeping, and/or reporting requirements to ensure compliance with these emission limitations.
- 2.f** The installation and operation of systems to continuously monitor and record emissions of NOx and the oxygen content of the exhaust gasses may be performed in lieu of continuously monitoring the ratio of water to fuel fired in the turbine and monitoring the nitrogen content of the fuel being fired in the turbine, as required by 40 CFR Part 60.334.
- In lieu of the excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess and emissions reports for this emissions unit in accordance with this permit.
- 2.g** 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 02-13376.
- 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.h** 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 02-13376.
- 2.i** "Full load" shall be defined as the electrical output at the maximum achievable fuel flow rate to the emissions unit for the ambient and equipment conditions during any operating hour. Any actual electrical output within 10% of the calculated electrical output shall be considered full load.

## 2. Additional Terms and Conditions (continued)

- 2.j "Startup/shutdown operation" or "startup and shutdown operation" occurs when the emissions unit is running at less than 50% of the electric output at full load.
- 2.k If the fuel fired in this emissions unit is switched from distillate oil to natural gas during any operating hour, the permittee shall comply with the distillate oil emission limitation for each such operating hour.

## II. Operational Restrictions

1. The sulfur content of the distillate oil fired in emissions units P001 through P005 shall not exceed 0.3%, by weight.
2. The quantity of distillate oil fired in emissions units P001 through P005, combined, shall not exceed 1,873,239 gallons per rolling, 12-month period.

The permittee may fire a greater quantity of distillate oil than is specified above if the distillate oil contains less than 0.3% sulfur, by weight, and compliance with the annual sulfur dioxide limitation (39.9 tons) is maintained. If distillate oil with a sulfur content less than 0.3% is fired, the permittee shall calculate and record the sulfur dioxide emission rate on a daily basis and use the daily emission rates to determine the total monthly sulfur dioxide emissions.

3. To ensure compliance with the annual formaldehyde emission limitation established pursuant to OAC rule 3745-31-05(C), the total operating hours for emissions units P001 through P005, combined, when firing natural gas, shall not exceed 27,155 hours per rolling, 12-month period.
4. The permittee shall only fire natural gas or distillate oil in this emissions unit.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain equipment to continuously monitor and record the nitrogen oxides emissions from this emissions unit in units of the applicable standards. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75.

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain records of the following data obtained by the continuous nitrogen oxides monitoring system: ppmvd at 15% oxygen, at full load (as defined in A.I.2.i), as a 1-hour average (when firing natural gas and distillate oil), ppmvd at 15% oxygen, as a rolling, 12-month average (when firing natural gas), lbs/hour, results of daily zero/span calibration checks, results of quarterly cylinder gas audits, linearity checks or relative accuracy test audits, and magnitude of manual calibration adjustments.

The permittee may conduct the relative accuracy test audits for the continuous nitrogen oxides monitoring system in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B; however, the permittee is still required to provide the audit results in units of the applicable standard(s), in accordance with 40 CFR Part 60. In addition, linearity checks conducted pursuant to 40 CFR Part 75, Appendix B, may be used in place of quarterly cylinder gas audits, as required in 40 CFR Part 60.

Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous nitrogen oxides monitoring system designed to ensure continuous valid and representative readings of nitrogen oxides emissions in units of the applicable standards. The plan shall follow the requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting activities related to the continuous nitrogen oxides monitoring system must be kept on site and available for inspection during regular office hours.

2. The permittee shall operate and maintain equipment to continuously monitor and record the percent oxygen in the stack serving this emissions unit when the emissions unit is in operation. The monitoring and recording equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

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

3. The permittee shall operate and maintain equipment to continuously monitor and record the fuel flow to this emissions unit when the emissions unit is in operation. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75. If the fuel flow monitoring and/or recording equipment is (are) not in service when the emissions unit is in operation, the permittee shall comply with the appropriate missing data procedures specified in 40 CFR Part 75.
4. The permittee shall monitor and analyze the sulfur content of the fuel being fired in this emissions unit in accordance with 40 CFR Parts 60.334 and 60.335.
5. The permittee shall maintain records that document the following:
  - a. the calculated full load for each operating hour;
  - b. the emissions unit's actual electrical output for each operating hour;
  - c. all periods of time when the emissions unit's actual electrical output was within 10% of the calculated full load; and
  - d. all periods of time when the emissions unit was operated at less than 50% of full load.
6. The permittee shall maintain monthly records that document the following:
  - a. the total amount of distillate oil fired in this emissions unit, in gallons;
  - b. the total amount of distillate oil fired in emissions units P001 through P005, combined, in gallons;
  - c. the rolling, 12-month summation of the distillate oil usage for emissions units P001 through P005, combined, in gallons;
  - d. the total number of hours this emissions unit was in operation and firing natural gas;
  - e. the total number of hours emissions units P001 through P005 were in operation and firing natural gas;
  - f. the rolling, 12-month summation of the total number of hours emissions units P001 through P005, combined, were in operation and firing natural gas;
  - g. the startup and shutdown emissions\* for nitrogen oxides, in tons;
  - h. the total particulate/PM10, nitrogen oxides (including startup and shutdown emissions), carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and formaldehyde emissions\* for this emissions unit, in tons;
  - i. the total particulate/PM10, carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and formaldehyde emissions for emissions units P001 through P005, combined, in tons;
  - j. the rolling, 12-month summation of the nitrogen oxides (including startup and shutdown emissions) emissions for this emissions unit, in tons; and
  - k. the rolling, 12-month summation of the particulate/PM10, carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and formaldehyde emissions for emissions units P001 through P005, combined, in tons.

\* The permittee shall use the continuous nitrogen oxides emission monitoring data to determine the nitrogen oxides emissions for these emissions units. During any period when the continuous nitrogen oxides emission monitoring system is not operational, the permittee shall use the appropriate missing data procedures specified in 40 CFR Part 75 to determine the rolling, 12-month nitrogen oxides emissions. The permittee shall use the most recent emission test data or specified emission factor(s) to determine the particulate/PM10, carbon monoxide, organic compound, sulfuric acid mist, and formaldehyde emissions for these emissions units. The permittee shall use the most recent emission test data or the fuel flow and fuel sulfur content data to determine the sulfur dioxide emissions for these emissions units.

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

7. For each day during which the permittee fires a fuel other than natural gas or distillate oil, the permittee shall maintain a record of the type and quantity of fuel fired in this emissions unit.

### IV. Reporting Requirements

1. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA, Northeast District Office documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of nitrogen oxides values in excess of the applicable emission limitations specified in the terms and conditions of this permit (15 ppmvd at 15% oxygen (at full load (as defined in A.1.2.i), as a 1-hr average and 9 ppmvd at 15% oxygen, as a rolling, 12-month average) when firing natural gas and 42 ppmvd at 15% oxygen (at full load (as defined in A.1.2.i), as a 1-hr average) when firing distillate oil).

The reports shall also document any continuous nitrogen oxides monitoring system downtime while the emissions unit was on line (date, time, duration, and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

The permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60.7. The summary shall be submitted to the Ohio EPA, Northeast District Office within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

2. The permittee shall submit quarterly deviation (excursion) reports to the Ohio EPA, Northeast District Office that identify the following:
  - a. any time periods when distillate oil with a sulfur content greater than 0.3%, by weight, was fired in emissions units P001 through P005;
  - b. all exceedances of the rolling, 12-month distillate oil usage restriction for emissions units P001 through P005, combined, when firing distillate oil with a sulfur content of 0.3%, by weight;
  - c. all exceedances of the rolling, 12-month operating hour restriction for emissions units P001 through P005, combined, when firing natural gas;
  - d. each day when a fuel other than natural gas or distillate oil was fired in this emissions unit;
  - e. all exceedances of the rolling, 12-month nitrogen oxides emission limitation for this emissions unit; and
  - f. all exceedances of the rolling, 12-month particulate/PM10, carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and/or formaldehyde emission limitations for emissions units P001 through P005, combined.

The quarterly reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

## V. Testing Requirements

### 1. Emission Limitations:

When firing natural gas, particulate/PM10 emissions from this emissions unit shall not exceed 5.0 lbs/hour.

When firing distillate oil, particulate/PM10 emissions from this emissions unit shall not exceed 10.0 lbs/hour.

Particulate/PM10 emissions from emissions units P001 through P005, combined shall not exceed 75.5 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.0019 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 0.007 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is based upon the averaged results of the particulate emission testing conducted for this emissions unit on May 19, 2001.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factors specified above and the records required pursuant to Section A.III.

### 2. Emission Limitations:

When firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 9 ppmv at 15% oxygen on a dry basis, as a rolling, 12-month average and 15 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

During startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 175.0 lbs/hour.

When firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 42 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

During startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 235.0 lbs/hour.

Nitrogen oxides emissions from this emissions unit (including startup and shutdown emissions) shall not exceed 125.9 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the ppmvd at 15% oxygen and startup and shutdown emission limitations shall be demonstrated based upon the continuous nitrogen oxides emission monitoring system data.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the continuous nitrogen oxides emission monitoring system data and the records required pursuant to Section A.III.

## V. Testing Requirements (continued)

### 3. Emission Limitations:

Carbon monoxide emissions from this emissions unit shall not exceed 83.0 lbs/hour.

Carbon monoxide emissions from emissions units P001 through P005, combined shall not exceed 499.9 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.027 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is based upon the averaged results of the carbon monoxide emission testing conducted for this emissions unit in May of 2001.

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 0.004 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is based upon the averaged results of the carbon monoxide emission testing conducted for this emissions unit in May of 2001.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the records required pursuant to Section A.III.

### 4. Emission Limitations:

When firing natural gas, organic compound emissions from this emissions unit shall not exceed 10.0 lbs/hour.

When firing distillate oil, organic compound emissions from this emissions unit shall not exceed 11.0 lbs/hour.

Organic compound emissions from emissions units P001 through P005, combined shall not exceed 122.0 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.003 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is based upon the averaged results of the organic compound emission testing conducted for this emissions unit on June 14, 2001.

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 0.001 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is based upon the averaged results of the organic compound emission testing conducted for this emissions unit on June 14, 2001.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factors specified above and the records required pursuant to Section A.III.

## V. Testing Requirements (continued)

### 5. Emission Limitations:

When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.007 lb/mmBtu, actual heat input.

When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 0.3 lb/mmBtu, actual heat input.

Sulfur dioxide emissions from emissions units P001 through P005, combined shall not exceed 39.9 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the lb/mmBtu emission limitation when firing natural gas may be determined using the emission factor of 0.94S lb/mmBtu (where S equals the percent sulfur in the fuel) and the records required pursuant to Section A.III. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

Compliance with the lb/mmBtu emission limitation when firing distillate oil may be determined using the emission factor of 1.01S lb/mmBtu (where S equals the percent sulfur in the fuel) and the records required pursuant to Section A.III. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

Compliance with the lb/mmBtu emission limitations may also be demonstrated based upon the records required pursuant to Section A.III.

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

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the records required pursuant to Section A.III.

### 6. Emission Limitations:

When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 0.033 lb/mmBtu, actual heat input.

Sulfuric acid mist emissions from emissions units P001 through P005, combined shall not exceed 4.2 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance may be determined by using the emission factor of 0.02 lb/mmBtu. The emission factor is based upon the averaged results of the sulfuric acid mist emission testing conducted for this emissions unit on May 19, 2001.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 8.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factor specified above and the records required pursuant to Section A.III.

## V. Testing Requirements (continued)

### 7. Emission Limitations:

When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed .000713 lb/mmBtu, actual heat input.

Formaldehyde emissions from emissions units P001 through P005, combined, shall not exceed 8.5 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the lb/mmBtu emission limitation when firing natural gas may be determined by using the emission factor of 0.00071 lb/mmBtu. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-3 (4/00).

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 40 CFR Part 63, Appendix A, Method 320.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factor specified above and the records required pursuant to Section A.III.

### 8. Emission Limitations:

During non-startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 143.0 lbs/hour.

During non-startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 215.0 lbs/hour.

#### Applicable Compliance Methods:

Compliance with these hourly emission limitations may be demonstrated based upon the continuous nitrogen oxides emission monitoring system data.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

### 9. Emission Limitations:

When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.6 lb/hour.

When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 339.0 lbs/hour.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.94S lb/mmBtu (where S equals the percent sulfur in the fuel) by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00). The sulfur content of the fuel may be based upon the records required pursuant to Section A.III.

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 1.01S lb/mmBtu (where S equals the percent sulfur in the fuel) by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00). The sulfur content of the fuel may be based upon the records required pursuant to Section A.III.

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

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

### **10. Emission Limitation:**

When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed 0.617 lb/hour.

Applicable Compliance Method:

This emission limitation was established by multiplying the emission factor of 0.00071 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-3 (4/00).

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 40 CFR Part 63, Appendix A, Method 320.

### **11. Emission Limitation:**

When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 35.4 lbs/hour.

Applicable Compliance Method:

Compliance may be determined by multiplying the emission factor of 0.02 lb/mmBtu by the emissions unit's maximum heat input rating when firing distillate oil. The emission factor is based upon the averaged results of the sulfuric acid mist emission testing conducted for this emissions unit on May 19, 2001.

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 8.

### **12. Emission Limitations:**

When firing natural gas, visible particulate emissions from any stack serving this emissions unit shall not exceed 10% opacity as, a 6-minute average.

When firing distillate oil, visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as, a 6-minute average.

Applicable Compliance Method:

Compliance with these emission limitations shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

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

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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

**Emissions Unit ID:** GE CT Unit # 4 (P003)

**Activity Description:** GENERAL ELECTRIC COMBUSTION TURBINE MODEL 7EA

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Simple cycle stationary combustion turbine having a nominal power production rating of 85 MW and a nominal heat input, at full load at ISO standard conditions, of 865.7 mmBtu/hour when firing natural gas and 932.9 mmBtu/hour when firing distillate oil (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding number 4 fuel oil). (P003 - CT Unit #4)	40 CFR Part 52.21 and OAC rules 3745-31-10 through 3745-31-20 (PTI No. 02-13376)	<p>When firing natural gas, particulate/PM10** emissions from this emissions unit shall not exceed 5.0 lbs/hour.</p> <p>When firing distillate oil, particulate/PM10** emissions from this emissions unit shall not exceed 10.0 lbs/hour.</p> <p>Particulate/PM10** emissions from emissions units P001 through P005, combined shall not exceed 75.5 tons per rolling, 12-month period.</p> <p>**The total PM10 emissions were evaluated and did not trigger any additional federal requirements, therefore, the emissions are being regulated as particulate emissions.</p>

**Operations, Property,  
and/or Equipment**

**Applicable Rules/  
Requirements**

**Applicable Emissions  
Limitations/Control  
Measures**

When firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 9 ppmv at 15% oxygen on a dry basis, as a rolling, 12-month average and 15 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

When firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 42 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

See A.I.2.k below.

Nitrogen oxides emissions from this emissions unit (including startup and shutdown emissions) shall not exceed 125.9 tons per rolling, 12-month period.

Carbon monoxide emissions from this emissions unit shall not exceed 83.0 lbs/hour.

Carbon monoxide emissions from emissions units P001 through P005, combined shall not exceed 499.9 tons per rolling, 12-month period.

When firing natural gas, organic compound emissions from this emissions unit shall not exceed 10.0 lbs/hour.

When firing distillate oil, organic compound emissions from this emissions unit shall not exceed 11.0 lbs/hour.

Organic compound emissions from emissions units P001 through P005, combined shall not exceed 122.0 tons per rolling, 12-month period.

See A.I.2.a below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-31-05(C) (Synthetic minor restrictions to avoid PSD rule requirements.) (PTI No. 02-13376)	When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.007 lb/mmBtu, actual heat input.  When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 0.3 lb/mmBtu, actual heat input.  Sulfur dioxide emissions from emissions units P001 through P005, combined shall not exceed 39.9 tons per rolling, 12-month period.  See A.I.2.b, A.II.1, and A.II.2 below. When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 0.033 lb/mmBtu, actual heat input.  Sulfuric acid mist emissions from emissions units P001 through P005, combined shall not exceed 4.2 tons per rolling, 12-month period.
	OAC rule 3745-31-05(C) (Synthetic minor restrictions to avoid MACT rule requirements.) (PTI No. 02-13376)	When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed .000713 lb/mmBtu, actual heat input.  Formaldehyde emissions from emissions units P001 through P005, combined, shall not exceed 8.5 tons per rolling, 12-month period.
	OAC rule 3745-31-05(A)(3) (PTI No. 02-13376)	See A.I.2.c and A.II.3 below. When firing natural gas, visible particulate emissions from any stack serving this emissions unit shall not exceed 10% opacity as, a 6-minute average.  When firing distillate oil, visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as, a 6-minute average.

**Operations, Property,  
and/or Equipment**

**Applicable Rules/  
Requirements**

**Applicable Emissions  
Limitations/Control  
Measures**

During startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 175.0 lbs/hour.

During non-startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 143.0 lbs/hour.

During startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 235.0 lbs/hour.

During non-startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 215.0 lbs/hour.

When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.6 lb/hour.

When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 339.0 lbs/hour.

When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed 0.617 lb/hour.

When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 35.4 lbs/hour.

See A.I.2.d and A.I.2.e below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	40 CFR Part 60, Subpart GG	<p>The nitrogen oxides emission limitation specified by this rule is less stringent than the nitrogen oxides emission limitations established pursuant to 40 CFR Part 52 and OAC Chapter 3745-31.</p> <p>The sulfur dioxide emission limitation specified by this rule is less stringent than the sulfur dioxide emission limitations established pursuant to OAC rule 3745-31-05(C).</p>
	OAC rule 3745-17-07(A)	<p>See A.I.2.f below.</p> <p>The visible particulate emission limitations specified by this rule are less stringent than the visible particulate emission limitations established pursuant to OAC rule 3745-31-05(A)(3).</p>
	OAC rule 3745-17-11(B)(4)	<p>The particulate emission limitation specified by this rule is less stringent than the particulate/PM10 emission limitations established pursuant to 40 CFR Part 52 and OAC Chapter 3745-31.</p>
	OAC rule 3745-18-06(F)	<p>When firing distillate oil, the sulfur dioxide emission limitation specified by this rule is less stringent than the sulfur dioxide emission limitation established pursuant to OAC rule 3745-31-05(C).</p> <p>When firing natural gas, pursuant to OAC rule 3745-18-06(A), this emissions unit is exempt from the sulfur dioxide emission limitation specified by this rule.</p>
	OAC rule 3745-21-08(B)	<p>See A.I.2.g below.</p>
	OAC rule 3745-23-06(B)	<p>See A.I.2.h below.</p>

## 2. Additional Terms and Conditions

- 2.a** The following Best Available Control Technology (BACT) determinations have been made in accordance with the PSD regulations:

Particulate/PM10 emissions - the BACT determination is the use of only clean burning fuels (i.e., natural gas and distillate oil) in the combustion turbine and compliance with specified emission limitations.

Nitrogen oxides emissions - the BACT determination is the use of dry low-nitrogen oxides burners when firing natural gas, water injection into the combustion zone when firing distillate oil, and compliance with the ppm emission limitations.

Carbon monoxide emissions - the BACT determination is the use of the combustion technology inherent in the design of the combustion turbine.

Organic compound emissions - the BACT determination is the use of the combustion technology inherent in the design of the combustion turbine.

- 2.b** The annual sulfur dioxide emission limitation establishes the synthetic minor restriction which exempts emissions units P001 through P005 from the requirements of the PSD regulations for this pollutant.
- 2.c** The annual formaldehyde emission limitation establishes the synthetic minor restriction which exempts emissions units P001 through P005 from the requirements of the MACT regulations.
- 2.d** The Best Available Technology (BAT) determination required under OAC rule 3745-31-05(A)(3) includes compliance with the specified emission limitations and also includes compliance with the emission limitations and operating requirements specified by 40 CFR Part 52, OAC rules 3745-31-10 through 3745-31-20, and OAC rule 3745-31-05(C).
- 2.e** The hourly nitrogen oxides (non-startup and shutdown), sulfur dioxide, formaldehyde, and sulfuric acid mist emission limitations, established pursuant to OAC rule 3745-31-05(A)(3), reflect the potentials to emit for these pollutants for this emissions unit. Therefore, it is not necessary to develop any additional monitoring, record keeping, and/or reporting requirements to ensure compliance with these emission limitations.
- 2.f** The installation and operation of systems to continuously monitor and record emissions of NOx and the oxygen content of the exhaust gasses may be performed in lieu of continuously monitoring the ratio of water to fuel fired in the turbine and monitoring the nitrogen content of the fuel being fired in the turbine, as required by 40 CFR Part 60.334.
- In lieu of the excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess and emissions reports for this emissions unit in accordance with this permit.
- 2.g** 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 02-13376.
- 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.h** 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 02-13376.
- 2.i** "Full load" shall be defined as the electrical output at the maximum achievable fuel flow rate to the emissions unit for the ambient and equipment conditions during any operating hour. Any actual electrical output within 10% of the calculated electrical output shall be considered full load.

## 2. Additional Terms and Conditions (continued)

- 2.j "Startup/shutdown operation" or "startup and shutdown operation" occurs when the emissions unit is running at less than 50% of the electric output at full load.
- 2.k If the fuel fired in this emissions unit is switched from distillate oil to natural gas during any operating hour, the permittee shall comply with the distillate oil emission limitation for each such operating hour.

## II. Operational Restrictions

1. The sulfur content of the distillate oil fired in emissions units P001 through P005 shall not exceed 0.3%, by weight.
2. The quantity of distillate oil fired in emissions units P001 through P005, combined, shall not exceed 1,873,239 gallons per rolling, 12-month period.

The permittee may fire a greater quantity of distillate oil than is specified above if the distillate oil contains less than 0.3% sulfur, by weight, and compliance with the annual sulfur dioxide limitation (39.9 tons) is maintained. If distillate oil with a sulfur content less than 0.3% is fired, the permittee shall calculate and record the sulfur dioxide emission rate on a daily basis and use the daily emission rates to determine the total monthly sulfur dioxide emissions.

3. To ensure compliance with the annual formaldehyde emission limitation established pursuant to OAC rule 3745-31-05(C), the total operating hours for emissions units P001 through P005, combined, when firing natural gas, shall not exceed 27,155 hours per rolling, 12-month period.
4. The permittee shall only fire natural gas or distillate oil in this emissions unit.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain equipment to continuously monitor and record the nitrogen oxides emissions from this emissions unit in units of the applicable standards. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75.

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain records of the following data obtained by the continuous nitrogen oxides monitoring system: ppmvd at 15% oxygen, at full load (as defined in A.I.2.i), as a 1-hour average (when firing natural gas and distillate oil), ppmvd at 15% oxygen, as a rolling, 12-month average (when firing natural gas), lbs/hour, results of daily zero/span calibration checks, results of quarterly cylinder gas audits, linearity checks or relative accuracy test audits, and magnitude of manual calibration adjustments.

The permittee may conduct the relative accuracy test audits for the continuous nitrogen oxides monitoring system in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B; however, the permittee is still required to provide the audit results in units of the applicable standard(s), in accordance with 40 CFR Part 60. In addition, linearity checks conducted pursuant to 40 CFR Part 75, Appendix B, may be used in place of quarterly cylinder gas audits, as required in 40 CFR Part 60.

Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous nitrogen oxides monitoring system designed to ensure continuous valid and representative readings of nitrogen oxides emissions in units of the applicable standards. The plan shall follow the requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting activities related to the continuous nitrogen oxides monitoring system must be kept on site and available for inspection during regular office hours.

2. The permittee shall operate and maintain equipment to continuously monitor and record the percent oxygen in the stack serving this emissions unit when the emissions unit is in operation. The monitoring and recording equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

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

3. The permittee shall operate and maintain equipment to continuously monitor and record the fuel flow to this emissions unit when the emissions unit is in operation. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75. If the fuel flow monitoring and/or recording equipment is (are) not in service when the emissions unit is in operation, the permittee shall comply with the appropriate missing data procedures specified in 40 CFR Part 75.
4. The permittee shall monitor and analyze the sulfur content of the fuel being fired in this emissions unit in accordance with 40 CFR Parts 60.334 and 60.335.
5. The permittee shall maintain records that document the following:
  - a. the calculated full load for each operating hour;
  - b. the emissions unit's actual electrical output for each operating hour;
  - c. all periods of time when the emissions unit's actual electrical output was within 10% of the calculated full load; and
  - d. all periods of time when the emissions unit was operated at less than 50% of full load.
6. The permittee shall maintain monthly records that document the following:
  - a. the total amount of distillate oil fired in this emissions unit, in gallons;
  - b. the total amount of distillate oil fired in emissions units P001 through P005, combined, in gallons;
  - c. the rolling, 12-month summation of the distillate oil usage for emissions units P001 through P005, combined, in gallons;
  - d. the total number of hours this emissions unit was in operation and firing natural gas;
  - e. the total number of hours emissions units P001 through P005 were in operation and firing natural gas;
  - f. the rolling, 12-month summation of the total number of hours emissions units P001 through P005, combined, were in operation and firing natural gas;
  - g. the startup and shutdown emissions\* for nitrogen oxides, in tons;
  - h. the total particulate/PM10, nitrogen oxides (including startup and shutdown emissions), carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and formaldehyde emissions\* for this emissions unit, in tons;
  - i. the total particulate/PM10, carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and formaldehyde emissions for emissions units P001 through P005, combined, in tons;
  - j. the rolling, 12-month summation of the nitrogen oxides (including startup and shutdown emissions) emissions for this emissions unit, in tons; and
  - k. the rolling, 12-month summation of the particulate/PM10, carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and formaldehyde emissions for emissions units P001 through P005, combined, in tons.

\* The permittee shall use the continuous nitrogen oxides emission monitoring data to determine the nitrogen oxides emissions for these emissions units. During any period when the continuous nitrogen oxides emission monitoring system is not operational, the permittee shall use the appropriate missing data procedures specified in 40 CFR Part 75 to determine the rolling, 12-month nitrogen oxides emissions. The permittee shall use the most recent emission test data or specified emission factor(s) to determine the particulate/PM10, carbon monoxide, organic compound, sulfuric acid mist, and formaldehyde emissions for these emissions units. The permittee shall use the most recent emission test data or the fuel flow and fuel sulfur content data to determine the sulfur dioxide emissions for these emissions units.

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

7. For each day during which the permittee fires a fuel other than natural gas or distillate oil, the permittee shall maintain a record of the type and quantity of fuel fired in this emissions unit.

### IV. Reporting Requirements

1. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA, Northeast District Office documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of nitrogen oxides values in excess of the applicable emission limitations specified in the terms and conditions of this permit (15 ppmvd at 15% oxygen (at full load (as defined in A.1.2.i), as a 1-hr average and 9 ppmvd at 15% oxygen, as a rolling, 12-month average) when firing natural gas and 42 ppmvd at 15% oxygen (at full load (as defined in A.1.2.i), as a 1-hr average) when firing distillate oil).

The reports shall also document any continuous nitrogen oxides monitoring system downtime while the emissions unit was on line (date, time, duration, and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

The permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60.7. The summary shall be submitted to the Ohio EPA, Northeast District Office within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

2. The permittee shall submit quarterly deviation (excursion) reports to the Ohio EPA, Northeast District Office that identify the following:
  - a. any time periods when distillate oil with a sulfur content greater than 0.3%, by weight, was fired in emissions units P001 through P005;
  - b. all exceedances of the rolling, 12-month distillate oil usage restriction for emissions units P001 through P005, combined, when firing distillate oil with a sulfur content of 0.3%, by weight;
  - c. all exceedances of the rolling, 12-month operating hour restriction for emissions units P001 through P005, combined, when firing natural gas;
  - d. each day when a fuel other than natural gas or distillate oil was fired in this emissions unit;
  - e. all exceedances of the rolling, 12-month nitrogen oxides emission limitation for this emissions unit; and
  - f. all exceedances of the rolling, 12-month particulate/PM10, carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and/or formaldehyde emission limitations for emissions units P001 through P005, combined.

The quarterly reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

## V. Testing Requirements

### 1. Emission Limitations:

When firing natural gas, particulate/PM10 emissions from this emissions unit shall not exceed 5.0 lbs/hour.

When firing distillate oil, particulate/PM10 emissions from this emissions unit shall not exceed 10.0 lbs/hour.

Particulate/PM10 emissions from emissions units P001 through P005, combined shall not exceed 75.5 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.0019 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 0.007 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is based upon the averaged results of the particulate emission testing conducted for this emissions unit on May 19, 2001.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factors specified above and the records required pursuant to Section A.III.

### 2. Emission Limitations:

When firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 9 ppmv at 15% oxygen on a dry basis, as a rolling, 12-month average and 15 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

During startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 175.0 lbs/hour.

When firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 42 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

During startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 235.0 lbs/hour.

Nitrogen oxides emissions from this emissions unit (including startup and shutdown emissions) shall not exceed 125.9 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the ppmvd at 15% oxygen and startup and shutdown emission limitations shall be demonstrated based upon the continuous nitrogen oxides emission monitoring system data.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the continuous nitrogen oxides emission monitoring system data and the records required pursuant to Section A.III.

## V. Testing Requirements (continued)

### 3. Emission Limitations:

Carbon monoxide emissions from this emissions unit shall not exceed 83.0 lbs/hour.

Carbon monoxide emissions from emissions units P001 through P005, combined shall not exceed 499.9 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.027 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is based upon the averaged results of the carbon monoxide emission testing conducted for this emissions unit in May of 2001.

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 0.004 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is based upon the averaged results of the carbon monoxide emission testing conducted for this emissions unit in May of 2001.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the records required pursuant to Section A.III.

### 4. Emission Limitations:

When firing natural gas, organic compound emissions from this emissions unit shall not exceed 10.0 lbs/hour.

When firing distillate oil, organic compound emissions from this emissions unit shall not exceed 11.0 lbs/hour.

Organic compound emissions from emissions units P001 through P005, combined shall not exceed 122.0 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.003 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is based upon the averaged results of the organic compound emission testing conducted for this emissions unit on June 14, 2001.

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 0.001 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is based upon the averaged results of the organic compound emission testing conducted for this emissions unit on June 14, 2001.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factors specified above and the records required pursuant to Section A.III.

## V. Testing Requirements (continued)

### 5. Emission Limitations:

When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.007 lb/mmBtu, actual heat input.

When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 0.3 lb/mmBtu, actual heat input.

Sulfur dioxide emissions from emissions units P001 through P005, combined shall not exceed 39.9 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the lb/mmBtu emission limitation when firing natural gas may be determined using the emission factor of 0.94S lb/mmBtu (where S equals the percent sulfur in the fuel) and the records required pursuant to Section A.III. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

Compliance with the lb/mmBtu emission limitation when firing distillate oil may be determined using the emission factor of 1.01S lb/mmBtu (where S equals the percent sulfur in the fuel) and the records required pursuant to Section A.III. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

Compliance with the lb/mmBtu emission limitations may also be demonstrated based upon the records required pursuant to Section A.III.

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

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the records required pursuant to Section A.III.

### 6. Emission Limitations:

When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 0.033 lb/mmBtu, actual heat input.

Sulfuric acid mist emissions from emissions units P001 through P005, combined shall not exceed 4.2 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance may be determined by using the emission factor of 0.02 lb/mmBtu. The emission factor is based upon the averaged results of the sulfuric acid mist emission testing conducted for this emissions unit on May 19, 2001.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 8.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factor specified above and the records required pursuant to Section A.III.

## V. Testing Requirements (continued)

### 7. Emission Limitations:

When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed .000713 lb/mmBtu, actual heat input.

Formaldehyde emissions from emissions units P001 through P005, combined, shall not exceed 8.5 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the lb/mmBtu emission limitation when firing natural gas may be determined by using the emission factor of 0.00071 lb/mmBtu. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-3 (4/00).

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 40 CFR Part 63, Appendix A, Method 320.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factor specified above and the records required pursuant to Section A.III.

### 8. Emission Limitations:

During non-startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 143.0 lbs/hour.

During non-startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 215.0 lbs/hour.

#### Applicable Compliance Methods:

Compliance with these hourly emission limitations may be demonstrated based upon the continuous nitrogen oxides emission monitoring system data.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

### 9. Emission Limitations:

When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.6 lb/hour.

When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 339.0 lbs/hour.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.94S lb/mmBtu (where S equals the percent sulfur in the fuel) by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00). The sulfur content of the fuel may be based upon the records required pursuant to Section A.III.

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 1.01S lb/mmBtu (where S equals the percent sulfur in the fuel) by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00). The sulfur content of the fuel may be based upon the records required pursuant to Section A.III.

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

## V. Testing Requirements (continued)

### 10. Emission Limitation:

When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed 0.617 lb/hour.

Applicable Compliance Method:

This emission limitation was established by multiplying the emission factor of 0.00071 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-3 (4/00).

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 40 CFR Part 63, Appendix A, Method 320.

### 11. Emission Limitation:

When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 35.4 lbs/hour.

Applicable Compliance Method:

Compliance may be determined by multiplying the emission factor of 0.02 lb/mmBtu by the emissions unit's maximum heat input rating when firing distillate oil. The emission factor is based upon the averaged results of the sulfuric acid mist emission testing conducted for this emissions unit on May 19, 2001.

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 8.

### 12. Emission Limitations:

When firing natural gas, visible particulate emissions from any stack serving this emissions unit shall not exceed 10% opacity as, a 6-minute average.

When firing distillate oil, visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as, a 6-minute average.

Applicable Compliance Method:

Compliance with these emission limitations shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

## VI. Miscellaneous Requirements

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

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

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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

**Emissions Unit ID:** GE CT Unit # 5 (P004)

**Activity Description:** GENERAL ELECTRIC COMBUSTION TURBINE MODEL 7EA

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Simple cycle stationary combustion turbine having a nominal power production rating of 85 MW and a nominal heat input, at full load at ISO standard conditions, of 865.7 mmBtu/hour when firing natural gas and 932.9 mmBtu/hour when firing distillate oil (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding number 4 fuel oil). (P004 - CT Unit #5)	40 CFR Part 52.21 and OAC rules 3745-31-10 through 3745-31-20 (PTI No. 02-13376)	<p>When firing natural gas, particulate/PM10** emissions from this emissions unit shall not exceed 5.0 lbs/hour.</p> <p>When firing distillate oil, particulate/PM10** emissions from this emissions unit shall not exceed 10.0 lbs/hour.</p> <p>Particulate/PM10** emissions from emissions units P001 through P005, combined shall not exceed 75.5 tons per rolling, 12-month period.</p> <p>**The total PM10 emissions were evaluated and did not trigger any additional federal requirements, therefore, the emissions are being regulated as particulate emissions.</p>

**Operations, Property,  
and/or Equipment**

**Applicable Rules/  
Requirements**

**Applicable Emissions  
Limitations/Control  
Measures**

When firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 9 ppmv at 15% oxygen on a dry basis, as a rolling, 12-month average and 15 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

When firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 42 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

See A.I.2.k below.

Nitrogen oxides emissions from this emissions unit (including startup and shutdown emissions) shall not exceed 125.9 tons per rolling, 12-month period.

Carbon monoxide emissions from this emissions unit shall not exceed 83.0 lbs/hour.

Carbon monoxide emissions from emissions units P001 through P005, combined shall not exceed 499.9 tons per rolling, 12-month period.

When firing natural gas, organic compound emissions from this emissions unit shall not exceed 10.0 lbs/hour.

When firing distillate oil, organic compound emissions from this emissions unit shall not exceed 11.0 lbs/hour.

Organic compound emissions from emissions units P001 through P005, combined shall not exceed 122.0 tons per rolling, 12-month period.

See A.I.2.a below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-31-05(C) (Synthetic minor restrictions to avoid PSD rule requirements.) (PTI No. 02-13376)	When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.007 lb/mmBtu, actual heat input.  When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 0.3 lb/mmBtu, actual heat input.  Sulfur dioxide emissions from emissions units P001 through P005, combined shall not exceed 39.9 tons per rolling, 12-month period.  See A.I.2.b, A.II.1, and A.II.2 below. When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 0.033 lb/mmBtu, actual heat input.  Sulfuric acid mist emissions from emissions units P001 through P005, combined shall not exceed 4.2 tons per rolling, 12-month period.
	OAC rule 3745-31-05(C) (Synthetic minor restrictions to avoid MACT rule requirements.) (PTI No. 02-13376)	When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed .000713 lb/mmBtu, actual heat input.  Formaldehyde emissions from emissions units P001 through P005, combined, shall not exceed 8.5 tons per rolling, 12-month period.
	OAC rule 3745-31-05(A)(3) (PTI No. 02-13376)	See A.I.2.c and A.II.3 below. When firing natural gas, visible particulate emissions from any stack serving this emissions unit shall not exceed 10% opacity as, a 6-minute average.  When firing distillate oil, visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as, a 6-minute average.

**Operations, Property,  
and/or Equipment**

**Applicable Rules/  
Requirements**

**Applicable Emissions  
Limitations/Control  
Measures**

During startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 175.0 lbs/hour.

During non-startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 143.0 lbs/hour.

During startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 235.0 lbs/hour.

During non-startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 215.0 lbs/hour.

When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.6 lb/hour.

When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 339.0 lbs/hour.

When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed 0.617 lb/hour.

When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 35.4 lbs/hour.

See A.I.2.d and A.I.2.e below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	40 CFR Part 60, Subpart GG	<p>The nitrogen oxides emission limitation specified by this rule is less stringent than the nitrogen oxides emission limitations established pursuant to 40 CFR Part 52 and OAC Chapter 3745-31.</p> <p>The sulfur dioxide emission limitation specified by this rule is less stringent than the sulfur dioxide emission limitations established pursuant to OAC rule 3745-31-05(C).</p> <p>See A.I.2.f below.</p>
	OAC rule 3745-17-07(A)	<p>The visible particulate emission limitations specified by this rule are less stringent than the visible particulate emission limitations established pursuant to OAC rule 3745-31-05(A)(3).</p>
	OAC rule 3745-17-11(B)(4)	<p>The particulate emission limitation specified by this rule is less stringent than the particulate/PM10 emission limitations established pursuant to 40 CFR Part 52 and OAC Chapter 3745-31.</p>
	OAC rule 3745-18-06(F)	<p>When firing distillate oil, the sulfur dioxide emission limitation specified by this rule is less stringent than the sulfur dioxide emission limitation established pursuant to OAC rule 3745-31-05(C).</p> <p>When firing natural gas, pursuant to OAC rule 3745-18-06(A), this emissions unit is exempt from the sulfur dioxide emission limitation specified by this rule.</p>
	OAC rule 3745-21-08(B)	<p>See A.I.2.g below.</p>
	OAC rule 3745-23-06(B)	<p>See A.I.2.h below.</p>

## 2. Additional Terms and Conditions

- 2.a** The following Best Available Control Technology (BACT) determinations have been made in accordance with the PSD regulations:

Particulate/PM10 emissions - the BACT determination is the use of only clean burning fuels (i.e., natural gas and distillate oil) in the combustion turbine and compliance with specified emission limitations.

Nitrogen oxides emissions - the BACT determination is the use of dry low-nitrogen oxides burners when firing natural gas, water injection into the combustion zone when firing distillate oil, and compliance with the ppm emission limitations.

Carbon monoxide emissions - the BACT determination is the use of the combustion technology inherent in the design of the combustion turbine.

Organic compound emissions - the BACT determination is the use of the combustion technology inherent in the design of the combustion turbine.

- 2.b** The annual sulfur dioxide emission limitation establishes the synthetic minor restriction which exempts emissions units P001 through P005 from the requirements of the PSD regulations for this pollutant.
- 2.c** The annual formaldehyde emission limitation establishes the synthetic minor restriction which exempts emissions units P001 through P005 from the requirements of the MACT regulations.
- 2.d** The Best Available Technology (BAT) determination required under OAC rule 3745-31-05(A)(3) includes compliance with the specified emission limitations and also includes compliance with the emission limitations and operating requirements specified by 40 CFR Part 52, OAC rules 3745-31-10 through 3745-31-20, and OAC rule 3745-31-05(C).
- 2.e** The hourly nitrogen oxides (non-startup and shutdown), sulfur dioxide, formaldehyde, and sulfuric acid mist emission limitations, established pursuant to OAC rule 3745-31-05(A)(3), reflect the potentials to emit for these pollutants for this emissions unit. Therefore, it is not necessary to develop any additional monitoring, record keeping, and/or reporting requirements to ensure compliance with these emission limitations.
- 2.f** The installation and operation of systems to continuously monitor and record emissions of NOx and the oxygen content of the exhaust gasses may be performed in lieu of continuously monitoring the ratio of water to fuel fired in the turbine and monitoring the nitrogen content of the fuel being fired in the turbine, as required by 40 CFR Part 60.334.
- In lieu of the excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess and emissions reports for this emissions unit in accordance with this permit.
- 2.g** 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 02-13376.
- 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.h** 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 02-13376.
- 2.i** "Full load" shall be defined as the electrical output at the maximum achievable fuel flow rate to the emissions unit for the ambient and equipment conditions during any operating hour. Any actual electrical output within 10% of the calculated electrical output shall be considered full load.

## 2. Additional Terms and Conditions (continued)

- 2.j "Startup/shutdown operation" or "startup and shutdown operation" occurs when the emissions unit is running at less than 50% of the electric output at full load.
- 2.k If the fuel fired in this emissions unit is switched from distillate oil to natural gas during any operating hour, the permittee shall comply with the distillate oil emission limitation for each such operating hour.

## II. Operational Restrictions

1. The sulfur content of the distillate oil fired in emissions units P001 through P005 shall not exceed 0.3%, by weight.
2. The quantity of distillate oil fired in emissions units P001 through P005, combined, shall not exceed 1,873,239 gallons per rolling, 12-month period.

The permittee may fire a greater quantity of distillate oil than is specified above if the distillate oil contains less than 0.3% sulfur, by weight, and compliance with the annual sulfur dioxide limitation (39.9 tons) is maintained. If distillate oil with a sulfur content less than 0.3% is fired, the permittee shall calculate and record the sulfur dioxide emission rate on a daily basis and use the daily emission rates to determine the total monthly sulfur dioxide emissions.

3. To ensure compliance with the annual formaldehyde emission limitation established pursuant to OAC rule 3745-31-05(C), the total operating hours for emissions units P001 through P005, combined, when firing natural gas, shall not exceed 27,155 hours per rolling, 12-month period.
4. The permittee shall only fire natural gas or distillate oil in this emissions unit.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain equipment to continuously monitor and record the nitrogen oxides emissions from this emissions unit in units of the applicable standards. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75.

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain records of the following data obtained by the continuous nitrogen oxides monitoring system: ppmvd at 15% oxygen, at full load (as defined in A.I.2.i), as a 1-hour average (when firing natural gas and distillate oil), ppmvd at 15% oxygen, as a rolling, 12-month average (when firing natural gas), lbs/hour, results of daily zero/span calibration checks, results of quarterly cylinder gas audits, linearity checks or relative accuracy test audits, and magnitude of manual calibration adjustments.

The permittee may conduct the relative accuracy test audits for the continuous nitrogen oxides monitoring system in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B; however, the permittee is still required to provide the audit results in units of the applicable standard(s), in accordance with 40 CFR Part 60. In addition, linearity checks conducted pursuant to 40 CFR Part 75, Appendix B, may be used in place of quarterly cylinder gas audits, as required in 40 CFR Part 60.

Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous nitrogen oxides monitoring system designed to ensure continuous valid and representative readings of nitrogen oxides emissions in units of the applicable standards. The plan shall follow the requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting activities related to the continuous nitrogen oxides monitoring system must be kept on site and available for inspection during regular office hours.

2. The permittee shall operate and maintain equipment to continuously monitor and record the percent oxygen in the stack serving this emissions unit when the emissions unit is in operation. The monitoring and recording equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

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

3. The permittee shall operate and maintain equipment to continuously monitor and record the fuel flow to this emissions unit when the emissions unit is in operation. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75. If the fuel flow monitoring and/or recording equipment is (are) not in service when the emissions unit is in operation, the permittee shall comply with the appropriate missing data procedures specified in 40 CFR Part 75.
4. The permittee shall monitor and analyze the sulfur content of the fuel being fired in this emissions unit in accordance with 40 CFR Parts 60.334 and 60.335.
5. The permittee shall maintain records that document the following:
  - a. the calculated full load for each operating hour;
  - b. the emissions unit's actual electrical output for each operating hour;
  - c. all periods of time when the emissions unit's actual electrical output was within 10% of the calculated full load; and
  - d. all periods of time when the emissions unit was operated at less than 50% of full load.
6. The permittee shall maintain monthly records that document the following:
  - a. the total amount of distillate oil fired in this emissions unit, in gallons;
  - b. the total amount of distillate oil fired in emissions units P001 through P005, combined, in gallons;
  - c. the rolling, 12-month summation of the distillate oil usage for emissions units P001 through P005, combined, in gallons;
  - d. the total number of hours this emissions unit was in operation and firing natural gas;
  - e. the total number of hours emissions units P001 through P005 were in operation and firing natural gas;
  - f. the rolling, 12-month summation of the total number of hours emissions units P001 through P005, combined, were in operation and firing natural gas;
  - g. the startup and shutdown emissions\* for nitrogen oxides, in tons;
  - h. the total particulate/PM10, nitrogen oxides (including startup and shutdown emissions), carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and formaldehyde emissions\* for this emissions unit, in tons;
  - i. the total particulate/PM10, carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and formaldehyde emissions for emissions units P001 through P005, combined, in tons;
  - j. the rolling, 12-month summation of the nitrogen oxides (including startup and shutdown emissions) emissions for this emissions unit, in tons; and
  - k. the rolling, 12-month summation of the particulate/PM10, carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and formaldehyde emissions for emissions units P001 through P005, combined, in tons.

\* The permittee shall use the continuous nitrogen oxides emission monitoring data to determine the nitrogen oxides emissions for these emissions units. During any period when the continuous nitrogen oxides emission monitoring system is not operational, the permittee shall use the appropriate missing data procedures specified in 40 CFR Part 75 to determine the rolling, 12-month nitrogen oxides emissions. The permittee shall use the most recent emission test data or specified emission factor(s) to determine the particulate/PM10, carbon monoxide, organic compound, sulfuric acid mist, and formaldehyde emissions for these emissions units. The permittee shall use the most recent emission test data or the fuel flow and fuel sulfur content data to determine the sulfur dioxide emissions for these emissions units.

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

7. For each day during which the permittee fires a fuel other than natural gas or distillate oil, the permittee shall maintain a record of the type and quantity of fuel fired in this emissions unit.

### IV. Reporting Requirements

1. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA, Northeast District Office documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of nitrogen oxides values in excess of the applicable emission limitations specified in the terms and conditions of this permit (15 ppmvd at 15% oxygen (at full load (as defined in A.1.2.i), as a 1-hr average and 9 ppmvd at 15% oxygen, as a rolling, 12-month average) when firing natural gas and 42 ppmvd at 15% oxygen (at full load (as defined in A.1.2.i), as a 1-hr average) when firing distillate oil).

The reports shall also document any continuous nitrogen oxides monitoring system downtime while the emissions unit was on line (date, time, duration, and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

The permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60.7. The summary shall be submitted to the Ohio EPA, Northeast District Office within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

2. The permittee shall submit quarterly deviation (excursion) reports to the Ohio EPA, Northeast District Office that identify the following:
  - a. any time periods when distillate oil with a sulfur content greater than 0.3%, by weight, was fired in emissions units P001 through P005;
  - b. all exceedances of the rolling, 12-month distillate oil usage restriction for emissions units P001 through P005, combined, when firing distillate oil with a sulfur content of 0.3%, by weight;
  - c. all exceedances of the rolling, 12-month operating hour restriction for emissions units P001 through P005, combined, when firing natural gas;
  - d. each day when a fuel other than natural gas or distillate oil was fired in this emissions unit;
  - e. all exceedances of the rolling, 12-month nitrogen oxides emission limitation for this emissions unit; and
  - f. all exceedances of the rolling, 12-month particulate/PM10, carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and/or formaldehyde emission limitations for emissions units P001 through P005, combined.

The quarterly reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

## V. Testing Requirements

### 1. Emission Limitations:

When firing natural gas, particulate/PM10 emissions from this emissions unit shall not exceed 5.0 lbs/hour.

When firing distillate oil, particulate/PM10 emissions from this emissions unit shall not exceed 10.0 lbs/hour.

Particulate/PM10 emissions from emissions units P001 through P005, combined shall not exceed 75.5 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.0019 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 0.007 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is based upon the averaged results of the particulate emission testing conducted for this emissions unit on May 19, 2001.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factors specified above and the records required pursuant to Section A.III.

### 2. Emission Limitations:

When firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 9 ppmv at 15% oxygen on a dry basis, as a rolling, 12-month average and 15 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

During startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 175.0 lbs/hour.

When firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 42 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

During startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 235.0 lbs/hour.

Nitrogen oxides emissions from this emissions unit (including startup and shutdown emissions) shall not exceed 125.9 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the ppmvd at 15% oxygen and startup and shutdown emission limitations shall be demonstrated based upon the continuous nitrogen oxides emission monitoring system data.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the continuous nitrogen oxides emission monitoring system data and the records required pursuant to Section A.III.

## V. Testing Requirements (continued)

### 3. Emission Limitations:

Carbon monoxide emissions from this emissions unit shall not exceed 83.0 lbs/hour.

Carbon monoxide emissions from emissions units P001 through P005, combined shall not exceed 499.9 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.027 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is based upon the averaged results of the carbon monoxide emission testing conducted for this emissions unit in May of 2001.

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 0.004 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is based upon the averaged results of the carbon monoxide emission testing conducted for this emissions unit in May of 2001.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the records required pursuant to Section A.III.

### 4. Emission Limitations:

When firing natural gas, organic compound emissions from this emissions unit shall not exceed 10.0 lbs/hour.

When firing distillate oil, organic compound emissions from this emissions unit shall not exceed 11.0 lbs/hour.

Organic compound emissions from emissions units P001 through P005, combined shall not exceed 122.0 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.003 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is based upon the averaged results of the organic compound emission testing conducted for this emissions unit on June 14, 2001.

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 0.001 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is based upon the averaged results of the organic compound emission testing conducted for this emissions unit on June 14, 2001.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factors specified above and the records required pursuant to Section A.III.

## V. Testing Requirements (continued)

### 5. Emission Limitations:

When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.007 lb/mmBtu, actual heat input.

When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 0.3 lb/mmBtu, actual heat input.

Sulfur dioxide emissions from emissions units P001 through P005, combined shall not exceed 39.9 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the lb/mmBtu emission limitation when firing natural gas may be determined using the emission factor of 0.94S lb/mmBtu (where S equals the percent sulfur in the fuel) and the records required pursuant to Section A.III. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

Compliance with the lb/mmBtu emission limitation when firing distillate oil may be determined using the emission factor of 1.01S lb/mmBtu (where S equals the percent sulfur in the fuel) and the records required pursuant to Section A.III. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

Compliance with the lb/mmBtu emission limitations may also be demonstrated based upon the records required pursuant to Section A.III.

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

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the records required pursuant to Section A.III.

### 6. Emission Limitations:

When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 0.033 lb/mmBtu, actual heat input.

Sulfuric acid mist emissions from emissions units P001 through P005, combined shall not exceed 4.2 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance may be determined by using the emission factor of 0.02 lb/mmBtu. The emission factor is based upon the averaged results of the sulfuric acid mist emission testing conducted for this emissions unit on May 19, 2001.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 8.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factor specified above and the records required pursuant to Section A.III.

## V. Testing Requirements (continued)

### 7. Emission Limitations:

When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed .000713 lb/mmBtu, actual heat input.

Formaldehyde emissions from emissions units P001 through P005, combined, shall not exceed 8.5 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the lb/mmBtu emission limitation when firing natural gas may be determined by using the emission factor of 0.00071 lb/mmBtu. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-3 (4/00).

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 40 CFR Part 63, Appendix A, Method 320.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factor specified above and the records required pursuant to Section A.III.

### 8. Emission Limitations:

During non-startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 143.0 lbs/hour.

During non-startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 215.0 lbs/hour.

#### Applicable Compliance Methods:

Compliance with these hourly emission limitations may be demonstrated based upon the continuous nitrogen oxides emission monitoring system data.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

### 9. Emission Limitations:

When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.6 lb/hour.

When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 339.0 lbs/hour.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.94S lb/mmBtu (where S equals the percent sulfur in the fuel) by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00). The sulfur content of the fuel may be based upon the records required pursuant to Section A.III.

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 1.01S lb/mmBtu (where S equals the percent sulfur in the fuel) by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00). The sulfur content of the fuel may be based upon the records required pursuant to Section A.III.

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

## V. Testing Requirements (continued)

### 10. Emission Limitation:

When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed 0.617 lb/hour.

Applicable Compliance Method:

This emission limitation was established by multiplying the emission factor of 0.00071 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-3 (4/00).

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 40 CFR Part 63, Appendix A, Method 320.

### 11. Emission Limitation:

When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 35.4 lbs/hour.

Applicable Compliance Method:

Compliance may be determined by multiplying the emission factor of 0.02 lb/mmBtu by the emissions unit's maximum heat input rating when firing distillate oil. The emission factor is based upon the averaged results of the sulfuric acid mist emission testing conducted for this emissions unit on May 19, 2001.

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 8.

### 12. Emission Limitations:

When firing natural gas, visible particulate emissions from any stack serving this emissions unit shall not exceed 10% opacity as, a 6-minute average.

When firing distillate oil, visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as, a 6-minute average.

Applicable Compliance Method:

Compliance with these emission limitations shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

## VI. Miscellaneous Requirements

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

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

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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

**Emissions Unit ID:** GE CT Unit # 6 (P005)

**Activity Description:** GENERAL ELECTRIC COMBUSTION TURBINE MODEL 7EA

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Simple cycle stationary combustion turbine having a nominal power production rating of 85 MW and a nominal heat input, at full load at ISO standard conditions, of 865.7 mmBtu/hour when firing natural gas and 932.9 mmBtu/hour when firing distillate oil (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding number 4 fuel oil). (P005 - CT Unit #6)	40 CFR Part 52.21 and OAC rules 3745-31-10 through 3745-31-20 (PTI No. 02-13376)	<p>When firing natural gas, particulate/PM10** emissions from this emissions unit shall not exceed 5.0 lbs/hour.</p> <p>When firing distillate oil, particulate/PM10** emissions from this emissions unit shall not exceed 10.0 lbs/hour.</p> <p>Particulate/PM10** emissions from emissions units P001 through P005, combined shall not exceed 75.5 tons per rolling, 12-month period.</p> <p>**The total PM10 emissions were evaluated and did not trigger any additional federal requirements, therefore, the emissions are being regulated as particulate emissions.</p>

**Operations, Property,  
and/or Equipment**

**Applicable Rules/  
Requirements**

**Applicable Emissions  
Limitations/Control  
Measures**

When firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 9 ppmv at 15% oxygen on a dry basis, as a rolling, 12-month average and 15 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

When firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 42 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

See A.I.2.k below.

Nitrogen oxides emissions from this emissions unit (including startup and shutdown emissions) shall not exceed 125.9 tons per rolling, 12-month period.

Carbon monoxide emissions from this emissions unit shall not exceed 83.0 lbs/hour.

Carbon monoxide emissions from emissions units P001 through P005, combined shall not exceed 499.9 tons per rolling, 12-month period.

When firing natural gas, organic compound emissions from this emissions unit shall not exceed 10.0 lbs/hour.

When firing distillate oil, organic compound emissions from this emissions unit shall not exceed 11.0 lbs/hour.

Organic compound emissions from emissions units P001 through P005, combined shall not exceed 122.0 tons per rolling, 12-month period.

See A.I.2.a below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-31-05(C) (Synthetic minor restrictions to avoid PSD rule requirements.) (PTI No. 02-13376)	When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.007 lb/mmBtu, actual heat input.  When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 0.3 lb/mmBtu, actual heat input.  Sulfur dioxide emissions from emissions units P001 through P005, combined shall not exceed 39.9 tons per rolling, 12-month period.  See A.I.2.b, A.II.1, and A.II.2 below. When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 0.033 lb/mmBtu, actual heat input.  Sulfuric acid mist emissions from emissions units P001 through P005, combined shall not exceed 4.2 tons per rolling, 12-month period.
	OAC rule 3745-31-05(C) (Synthetic minor restrictions to avoid MACT rule requirements.) (PTI No. 02-13376)	When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed .000713 lb/mmBtu, actual heat input.  Formaldehyde emissions from emissions units P001 through P005, combined, shall not exceed 8.5 tons per rolling, 12-month period.
	OAC rule 3745-31-05(A)(3) (PTI No. 02-13376)	See A.I.2.c and A.II.3 below. When firing natural gas, visible particulate emissions from any stack serving this emissions unit shall not exceed 10% opacity as, a 6-minute average.  When firing distillate oil, visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as, a 6-minute average.

**Operations, Property,  
and/or Equipment**

**Applicable Rules/  
Requirements**

**Applicable Emissions  
Limitations/Control  
Measures**

During startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 175.0 lbs/hour.

During non-startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 143.0 lbs/hour.

During startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 235.0 lbs/hour.

During non-startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 215.0 lbs/hour.

When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.6 lb/hour.

When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 339.0 lbs/hour.

When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed 0.617 lb/hour.

When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 35.4 lbs/hour.

See A.I.2.d and A.I.2.e below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	40 CFR Part 60, Subpart GG	<p>The nitrogen oxides emission limitation specified by this rule is less stringent than the nitrogen oxides emission limitations established pursuant to 40 CFR Part 52 and OAC Chapter 3745-31.</p> <p>The sulfur dioxide emission limitation specified by this rule is less stringent than the sulfur dioxide emission limitations established pursuant to OAC rule 3745-31-05(C).</p> <p>See A.I.2.f below.</p>
	OAC rule 3745-17-07(A)	<p>The visible particulate emission limitations specified by this rule are less stringent than the visible particulate emission limitations established pursuant to OAC rule 3745-31-05(A)(3).</p>
	OAC rule 3745-17-11(B)(4)	<p>The particulate emission limitation specified by this rule is less stringent than the particulate/PM10 emission limitations established pursuant to 40 CFR Part 52 and OAC Chapter 3745-31.</p>
	OAC rule 3745-18-06(F)	<p>When firing distillate oil, the sulfur dioxide emission limitation specified by this rule is less stringent than the sulfur dioxide emission limitation established pursuant to OAC rule 3745-31-05(C).</p> <p>When firing natural gas, pursuant to OAC rule 3745-18-06(A), this emissions unit is exempt from the sulfur dioxide emission limitation specified by this rule.</p>
	OAC rule 3745-21-08(B)	<p>See A.I.2.g below.</p>
	OAC rule 3745-23-06(B)	<p>See A.I.2.h below.</p>

## 2. Additional Terms and Conditions

- 2.a** The following Best Available Control Technology (BACT) determinations have been made in accordance with the PSD regulations:

Particulate/PM10 emissions - the BACT determination is the use of only clean burning fuels (i.e., natural gas and distillate oil) in the combustion turbine and compliance with specified emission limitations.

Nitrogen oxides emissions - the BACT determination is the use of dry low-nitrogen oxides burners when firing natural gas, water injection into the combustion zone when firing distillate oil, and compliance with the ppm emission limitations.

Carbon monoxide emissions - the BACT determination is the use of the combustion technology inherent in the design of the combustion turbine.

Organic compound emissions - the BACT determination is the use of the combustion technology inherent in the design of the combustion turbine.

- 2.b** The annual sulfur dioxide emission limitation establishes the synthetic minor restriction which exempts emissions units P001 through P005 from the requirements of the PSD regulations for this pollutant.
- 2.c** The annual formaldehyde emission limitation establishes the synthetic minor restriction which exempts emissions units P001 through P005 from the requirements of the MACT regulations.
- 2.d** The Best Available Technology (BAT) determination required under OAC rule 3745-31-05(A)(3) includes compliance with the specified emission limitations and also includes compliance with the emission limitations and operating requirements specified by 40 CFR Part 52, OAC rules 3745-31-10 through 3745-31-20, and OAC rule 3745-31-05(C).
- 2.e** The hourly nitrogen oxides (non-startup and shutdown), sulfur dioxide, formaldehyde, and sulfuric acid mist emission limitations, established pursuant to OAC rule 3745-31-05(A)(3), reflect the potentials to emit for these pollutants for this emissions unit. Therefore, it is not necessary to develop any additional monitoring, record keeping, and/or reporting requirements to ensure compliance with these emission limitations.
- 2.f** The installation and operation of systems to continuously monitor and record emissions of NOx and the oxygen content of the exhaust gasses may be performed in lieu of continuously monitoring the ratio of water to fuel fired in the turbine and monitoring the nitrogen content of the fuel being fired in the turbine, as required by 40 CFR Part 60.334.
- In lieu of the excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess and emissions reports for this emissions unit in accordance with this permit.
- 2.g** 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 02-13376.
- 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.h** 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 02-13376.
- 2.i** "Full load" shall be defined as the electrical output at the maximum achievable fuel flow rate to the emissions unit for the ambient and equipment conditions during any operating hour. Any actual electrical output within 10% of the calculated electrical output shall be considered full load.

## 2. Additional Terms and Conditions (continued)

- 2.j "Startup/shutdown operation" or "startup and shutdown operation" occurs when the emissions unit is running at less than 50% of the electric output at full load.
- 2.k If the fuel fired in this emissions unit is switched from distillate oil to natural gas during any operating hour, the permittee shall comply with the distillate oil emission limitation for each such operating hour.

## II. Operational Restrictions

1. The sulfur content of the distillate oil fired in emissions units P001 through P005 shall not exceed 0.3%, by weight.
2. The quantity of distillate oil fired in emissions units P001 through P005, combined, shall not exceed 1,873,239 gallons per rolling, 12-month period.

The permittee may fire a greater quantity of distillate oil than is specified above if the distillate oil contains less than 0.3% sulfur, by weight, and compliance with the annual sulfur dioxide limitation (39.9 tons) is maintained. If distillate oil with a sulfur content less than 0.3% is fired, the permittee shall calculate and record the sulfur dioxide emission rate on a daily basis and use the daily emission rates to determine the total monthly sulfur dioxide emissions.

3. To ensure compliance with the annual formaldehyde emission limitation established pursuant to OAC rule 3745-31-05(C), the total operating hours for emissions units P001 through P005, combined, when firing natural gas, shall not exceed 27,155 hours per rolling, 12-month period.
4. The permittee shall only fire natural gas or distillate oil in this emissions unit.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain equipment to continuously monitor and record the nitrogen oxides emissions from this emissions unit in units of the applicable standards. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75.

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain records of the following data obtained by the continuous nitrogen oxides monitoring system: ppmvd at 15% oxygen, at full load (as defined in A.I.2.i), as a 1-hour average (when firing natural gas and distillate oil), ppmvd at 15% oxygen, as a rolling, 12-month average (when firing natural gas), lbs/hour, results of daily zero/span calibration checks, results of quarterly cylinder gas audits, linearity checks or relative accuracy test audits, and magnitude of manual calibration adjustments.

The permittee may conduct the relative accuracy test audits for the continuous nitrogen oxides monitoring system in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B; however, the permittee is still required to provide the audit results in units of the applicable standard(s), in accordance with 40 CFR Part 60. In addition, linearity checks conducted pursuant to 40 CFR Part 75, Appendix B, may be used in place of quarterly cylinder gas audits, as required in 40 CFR Part 60.

Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous nitrogen oxides monitoring system designed to ensure continuous valid and representative readings of nitrogen oxides emissions in units of the applicable standards. The plan shall follow the requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting activities related to the continuous nitrogen oxides monitoring system must be kept on site and available for inspection during regular office hours.

2. The permittee shall operate and maintain equipment to continuously monitor and record the percent oxygen in the stack serving this emissions unit when the emissions unit is in operation. The monitoring and recording equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

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

3. The permittee shall operate and maintain equipment to continuously monitor and record the fuel flow to this emissions unit when the emissions unit is in operation. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75. If the fuel flow monitoring and/or recording equipment is (are) not in service when the emissions unit is in operation, the permittee shall comply with the appropriate missing data procedures specified in 40 CFR Part 75.
4. The permittee shall monitor and analyze the sulfur content of the fuel being fired in this emissions unit in accordance with 40 CFR Parts 60.334 and 60.335.
5. The permittee shall maintain records that document the following:
  - a. the calculated full load for each operating hour;
  - b. the emissions unit's actual electrical output for each operating hour;
  - c. all periods of time when the emissions unit's actual electrical output was within 10% of the calculated full load; and
  - d. all periods of time when the emissions unit was operated at less than 50% of full load.
6. The permittee shall maintain monthly records that document the following:
  - a. the total amount of distillate oil fired in this emissions unit, in gallons;
  - b. the total amount of distillate oil fired in emissions units P001 through P005, combined, in gallons;
  - c. the rolling, 12-month summation of the distillate oil usage for emissions units P001 through P005, combined, in gallons;
  - d. the total number of hours this emissions unit was in operation and firing natural gas;
  - e. the total number of hours emissions units P001 through P005 were in operation and firing natural gas;
  - f. the rolling, 12-month summation of the total number of hours emissions units P001 through P005, combined, were in operation and firing natural gas;
  - g. the startup and shutdown emissions\* for nitrogen oxides, in tons;
  - h. the total particulate/PM10, nitrogen oxides (including startup and shutdown emissions), carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and formaldehyde emissions\* for this emissions unit, in tons;
  - i. the total particulate/PM10, carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and formaldehyde emissions for emissions units P001 through P005, combined, in tons;
  - j. the rolling, 12-month summation of the nitrogen oxides (including startup and shutdown emissions) emissions for this emissions unit, in tons; and
  - k. the rolling, 12-month summation of the particulate/PM10, carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and formaldehyde emissions for emissions units P001 through P005, combined, in tons.

\* The permittee shall use the continuous nitrogen oxides emission monitoring data to determine the nitrogen oxides emissions for these emissions units. During any period when the continuous nitrogen oxides emission monitoring system is not operational, the permittee shall use the appropriate missing data procedures specified in 40 CFR Part 75 to determine the rolling, 12-month nitrogen oxides emissions. The permittee shall use the most recent emission test data or specified emission factor(s) to determine the particulate/PM10, carbon monoxide, organic compound, sulfuric acid mist, and formaldehyde emissions for these emissions units. The permittee shall use the most recent emission test data or the fuel flow and fuel sulfur content data to determine the sulfur dioxide emissions for these emissions units.

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

7. For each day during which the permittee fires a fuel other than natural gas or distillate oil, the permittee shall maintain a record of the type and quantity of fuel fired in this emissions unit.

### IV. Reporting Requirements

1. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA, Northeast District Office documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of nitrogen oxides values in excess of the applicable emission limitations specified in the terms and conditions of this permit (15 ppmvd at 15% oxygen (at full load (as defined in A.1.2.i), as a 1-hr average and 9 ppmvd at 15% oxygen, as a rolling, 12-month average) when firing natural gas and 42 ppmvd at 15% oxygen (at full load (as defined in A.1.2.i), as a 1-hr average) when firing distillate oil).

The reports shall also document any continuous nitrogen oxides monitoring system downtime while the emissions unit was on line (date, time, duration, and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

The permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60.7. The summary shall be submitted to the Ohio EPA, Northeast District Office within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

2. The permittee shall submit quarterly deviation (excursion) reports to the Ohio EPA, Northeast District Office that identify the following:
  - a. any time periods when distillate oil with a sulfur content greater than 0.3%, by weight, was fired in emissions units P001 through P005;
  - b. all exceedances of the rolling, 12-month distillate oil usage restriction for emissions units P001 through P005, combined, when firing distillate oil with a sulfur content of 0.3%, by weight;
  - c. all exceedances of the rolling, 12-month operating hour restriction for emissions units P001 through P005, combined, when firing natural gas;
  - d. each day when a fuel other than natural gas or distillate oil was fired in this emissions unit;
  - e. all exceedances of the rolling, 12-month nitrogen oxides emission limitation for this emissions unit; and
  - f. all exceedances of the rolling, 12-month particulate/PM10, carbon monoxide, organic compound, sulfur dioxide, sulfuric acid mist, and/or formaldehyde emission limitations for emissions units P001 through P005, combined.

The quarterly reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

## V. Testing Requirements

### 1. Emission Limitations:

When firing natural gas, particulate/PM10 emissions from this emissions unit shall not exceed 5.0 lbs/hour.

When firing distillate oil, particulate/PM10 emissions from this emissions unit shall not exceed 10.0 lbs/hour.

Particulate/PM10 emissions from emissions units P001 through P005, combined shall not exceed 75.5 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.0019 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 0.007 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is based upon the averaged results of the particulate emission testing conducted for this emissions unit on May 19, 2001.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factors specified above and the records required pursuant to Section A.III.

### 2. Emission Limitations:

When firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 9 ppmv at 15% oxygen on a dry basis, as a rolling, 12-month average and 15 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

During startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 175.0 lbs/hour.

When firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 42 ppmv at 15% oxygen on a dry basis, at full load, as a 1-hour average.

During startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 235.0 lbs/hour.

Nitrogen oxides emissions from this emissions unit (including startup and shutdown emissions) shall not exceed 125.9 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the ppmvd at 15% oxygen and startup and shutdown emission limitations shall be demonstrated based upon the continuous nitrogen oxides emission monitoring system data.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the continuous nitrogen oxides emission monitoring system data and the records required pursuant to Section A.III.

## V. Testing Requirements (continued)

### 3. Emission Limitations:

Carbon monoxide emissions from this emissions unit shall not exceed 83.0 lbs/hour.

Carbon monoxide emissions from emissions units P001 through P005, combined shall not exceed 499.9 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.027 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is based upon the averaged results of the carbon monoxide emission testing conducted for this emissions unit in May of 2001.

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 0.004 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is based upon the averaged results of the carbon monoxide emission testing conducted for this emissions unit in May of 2001.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the records required pursuant to Section A.III.

### 4. Emission Limitations:

When firing natural gas, organic compound emissions from this emissions unit shall not exceed 10.0 lbs/hour.

When firing distillate oil, organic compound emissions from this emissions unit shall not exceed 11.0 lbs/hour.

Organic compound emissions from emissions units P001 through P005, combined shall not exceed 122.0 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.003 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is based upon the averaged results of the organic compound emission testing conducted for this emissions unit on June 14, 2001.

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 0.001 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is based upon the averaged results of the organic compound emission testing conducted for this emissions unit on June 14, 2001.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factors specified above and the records required pursuant to Section A.III.

## V. Testing Requirements (continued)

### 5. Emission Limitations:

When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.007 lb/mmBtu, actual heat input.

When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 0.3 lb/mmBtu, actual heat input.

Sulfur dioxide emissions from emissions units P001 through P005, combined shall not exceed 39.9 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the lb/mmBtu emission limitation when firing natural gas may be determined using the emission factor of 0.94S lb/mmBtu (where S equals the percent sulfur in the fuel) and the records required pursuant to Section A.III. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

Compliance with the lb/mmBtu emission limitation when firing distillate oil may be determined using the emission factor of 1.01S lb/mmBtu (where S equals the percent sulfur in the fuel) and the records required pursuant to Section A.III. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00).

Compliance with the lb/mmBtu emission limitations may also be demonstrated based upon the records required pursuant to Section A.III.

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

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the records required pursuant to Section A.III.

### 6. Emission Limitations:

When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 0.033 lb/mmBtu, actual heat input.

Sulfuric acid mist emissions from emissions units P001 through P005, combined shall not exceed 4.2 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance may be determined by using the emission factor of 0.02 lb/mmBtu. The emission factor is based upon the averaged results of the sulfuric acid mist emission testing conducted for this emissions unit on May 19, 2001.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 8.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factor specified above and the records required pursuant to Section A.III.

## V. Testing Requirements (continued)

### 7. Emission Limitations:

When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed .000713 lb/mmBtu, actual heat input.

Formaldehyde emissions from emissions units P001 through P005, combined, shall not exceed 8.5 tons per rolling, 12-month period.

#### Applicable Compliance Methods:

Compliance with the lb/mmBtu emission limitation when firing natural gas may be determined by using the emission factor of 0.00071 lb/mmBtu. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-3 (4/00).

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 40 CFR Part 63, Appendix A, Method 320.

Compliance with the tons per rolling, 12-month period emission limitation shall be demonstrated based upon the emission factor specified above and the records required pursuant to Section A.III.

### 8. Emission Limitations:

During non-startup and shutdown periods, when firing natural gas, nitrogen oxides emissions from this emissions unit shall not exceed 143.0 lbs/hour.

During non-startup and shutdown periods, when firing distillate oil, nitrogen oxides emissions from this emissions unit shall not exceed 215.0 lbs/hour.

#### Applicable Compliance Methods:

Compliance with these hourly emission limitations may be demonstrated based upon the continuous nitrogen oxides emission monitoring system data.

If required, the permittee shall demonstrate compliance with these emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

### 9. Emission Limitations:

When firing natural gas, sulfur dioxide emissions from this emissions unit shall not exceed 0.6 lb/hour.

When firing distillate oil, sulfur dioxide emissions from this emissions unit shall not exceed 339.0 lbs/hour.

#### Applicable Compliance Methods:

Compliance with the hourly emission limitation when firing natural gas may be determined by multiplying the emission factor of 0.94S lb/mmBtu (where S equals the percent sulfur in the fuel) by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00). The sulfur content of the fuel may be based upon the records required pursuant to Section A.III.

Compliance with the hourly emission limitation when firing distillate oil may be determined by multiplying the emission factor of 1.01S lb/mmBtu (where S equals the percent sulfur in the fuel) by the emissions unit's maximum hourly heat input rate when firing distillate oil. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (4/00). The sulfur content of the fuel may be based upon the records required pursuant to Section A.III.

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

## V. Testing Requirements (continued)

### 10. Emission Limitation:

When firing natural gas, formaldehyde emissions from this emissions unit shall not exceed 0.617 lb/hour.

Applicable Compliance Method:

This emission limitation was established by multiplying the emission factor of 0.00071 lb/mmBtu by the emissions unit's maximum hourly heat input rate when firing natural gas. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-3 (4/00).

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 40 CFR Part 63, Appendix A, Method 320.

### 11. Emission Limitation:

When firing distillate oil, sulfuric acid mist emissions from this emissions unit shall not exceed 35.4 lbs/hour.

Applicable Compliance Method:

Compliance may be determined by multiplying the emission factor of 0.02 lb/mmBtu by the emissions unit's maximum heat input rating when firing distillate oil. The emission factor is based upon the averaged results of the sulfuric acid mist emission testing conducted for this emissions unit on May 19, 2001.

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 8.

### 12. Emission Limitations:

When firing natural gas, visible particulate emissions from any stack serving this emissions unit shall not exceed 10% opacity as, a 6-minute average.

When firing distillate oil, visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as, a 6-minute average.

Applicable Compliance Method:

Compliance with these emission limitations shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

## VI. Miscellaneous Requirements

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

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

None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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