



State of Ohio Environmental Protection Agency

Street Address:

Mailing Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Lazarus Gov.
Center

**RE: DRAFT PERMIT TO INSTALL MODIFICATION
MONTGOMERY COUNTY
Application No: 08-04380
Fac ID: 0857042072**

CERTIFIED MAIL

DATE: 1/12/2006

Dayton Power and Light Company
Amy Wright
1065 Woodman Drive
Dayton, OH 45432

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install modification for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit modification. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit modification should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install modification may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install modification a fee of **\$ 750** will be due. Please do not submit any payment now.

The Ohio EPA is urging 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. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Sincerely,

Michael W. Ahern

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

CC: USEPA

RAPCA

Miami Valley Regional Planning Commission

KY

IN

MONTGOMERY COUNTY

PUBLIC NOTICE

**ISSUANCE OF DRAFT PERMIT TO INSTALL 08-04380 FOR AN AIR CONTAMINANT SOURCE FOR
Dayton Power and Light Company**

On 1/12/2006 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Dayton Power and Light Company**, located at **2101 Arbor Blvd, Dayton, Ohio**.

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 08-04380:

Administrative Modification for modification of permit terms by the AGO in letter on 1.21.04.

Comments concerning this draft action, or a request for a public meeting, must be sent in writing to the address identified below no later than thirty (30) days from the date this notice is published. All inquiries concerning this draft action may be directed to the contact identified below.

John Paul, Regional Air Pollution Control Agency, 117 South Main Street, Dayton, OH 45422-1280
[(937)225-4435]



**Permit To Install
Terms and Conditions**

**Issue Date: To be entered upon final issuance
Effective Date: To be entered upon final issuance**

DRAFT MODIFICATION OF PERMIT TO INSTALL 08-04380

Application Number: 08-04380
Facility ID: 0857042072
Permit Fee: **To be entered upon final issuance**
Name of Facility: Dayton Power and Light Company
Person to Contact: Amy Wright
Address: 1065 Woodman Drive
Dayton, OH 45432

Location of proposed air contaminant source(s) [emissions unit(s)]:
**2101 Arbor Blvd
Dayton, Ohio**

Description of proposed emissions unit(s):
Administrative Modification for modification of permit terms by the AGO in letter on 1.21.04.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Dayton Power and Light Company

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Part I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Permit-To-Install General Terms and Conditions

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written

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reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - iv. If this permit is for an emissions unit located at a Title V facility, then each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

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

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permittee shall comply with the requirement to register such a plan.

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4. Title IV Provisions

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

5. Severability Clause

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

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification
- 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, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying 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

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permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

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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. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any 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 and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this 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 ORC section 3704.08.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

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- 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.

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- 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.

10. Permit-To-Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this permit is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

11. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

12. Air Pollution Nuisance

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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.

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13. Permit-To-Install

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

B. State Only Enforceable Permit-To-Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. 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.

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4. Authorization To Install or Modify

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

5. Construction of New Sources(s)

This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

6. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

7. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

8. Construction Compliance Certification

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If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) that the facility has been constructed in accordance with the permit-to-install application and the terms and conditions of the permit-to-install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

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

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

C. Permit-To-Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
Particulate	46.5
Sulfur Dioxide	92.58
Carbon Monoxide	160.8
Nitrogen Oxide	374
Organic Compounds	45

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Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

1. Nitrogen Oxides (NO_x) Budget Trading Program

OAC Chapter 3745-14

a. Office of Regulatory Information System Facility Code - 2847

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

Emissions Unit	Annual Allowance for Calendar Years 2004 and 2005	Annual Allowance for Calendar Years 2006 and 2007
B001 - Boiler CT-1	23	23
B002 - Boiler CT-2	25	24

Emissions unit B003 (Boiler CT-3) is a new regulated electrical generating unit. Annual NO_x allowance allocations were not established for this new unit when OAC Chapter 3745-14 was promulgated. The annual NO_x allowance allocations for emissions unit B003 for calendar years 2005 through 2007 will be established in accordance with OAC rule 3745-14-05(C)(4). Pursuant to OAC rule 3745-14-05(B)(2), the annual NO_x allowance allocations for emissions units B001 through B003 for calendar years 2008 through 2012 will be established in accordance with OAC rules 3745-14-05(C)(1) and 3745-14-05(C)(2).

c. The emissions units identified in Section A.1.b above are NO_x budget units under OAC rule 3745-14-01(C)(1).

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

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- e. Beginning May 31, 2004, the owners and operators of each NO_x budget source and each NO_x budget unit at the source shall hold NO_x allowances available for compliance deductions under paragraph (E) of OAC rule 3745-14-06, as of the NO_x allowance transfer deadline, in the unit's compliance account and the source's overdraft account in an amount not less than the total NO_x 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.
- f. NO_x allowances shall be held in, deducted from, or transferred among NO_x allowance tracking system accounts in accordance with OAC rules 3745-14-05, 3745-14-06, 3745-14-07, and 3745-14-09.
- g. A NO_x 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 NO_x allowance was allocated.
- h. Each ton of NO_x emitted in excess of the NO_x 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 NO_x budget unit that has excess emissions in any control period shall surrender the NO_x 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.
- i. When recorded by the Administrator pursuant to OAC rules 3745-14-06 and 3745-14-07, every allocation, transfer, or deduction of a NO_x allowance to or from a NO_x 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 NO_x budget permit of the NO_x budget unit by operation of law without any further review.
- j. Except as provided below, the Director shall revise the NO_x budget permit, as necessary, in accordance with OAC rule 3745-77-08.

Each NO_x 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 NO_x allowance to or from the compliance accounts of the NO_x budget units covered by the permit or the

overdraft account of the NO_x budget source covered by the permit.

- k. The owner or operator of a NO_x budget unit shall comply with the prohibitions under OAC rule 3745-14-08(A)(5).
- l. The owners and operators of the NO_x 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 NO_x authorized account representative for the NO_x 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 NO_x 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 NO_x budget trading program; and
 - iv. copies of all documents used to complete a NO_x budget permit application and any other submission under the NO_x budget trading program or to demonstrate compliance with the requirements of the NO_x budget trading program.
- 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 Part III, Section A.III.2 and 40 CFR Part 75.
- 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.
- o. The NO_x authorized account representative of the NO_x budget unit shall submit the reports and compliance certifications required under the NO_x budget trading program, including those under OAC rules 3745-14-04 and 3745-14-08, to the Director and Administrator.
- p. Each submission under the NO_x budget trading program shall be submitted,

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

"I am authorized to make this submission on behalf of the owners and operators of the NO_x budget sources or NO_x 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 NO_x authorized account representative for a NO_x 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.

- q. The NO_x 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 NO_x 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.
- r. The NO_x 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 NO_x 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

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the quality assurance program under Appendix B of 40 CFR Part 75 and the substitute values do not systematically underestimate the NO_x emissions.

- s. The NO_x authorized account representative for a NO_x 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 NO_x authorized account representative shall submit a certification application to

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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.

- t. For each control period in which one or more NO_x budget units at a source are subject to the NO_x budget emission limitation, the NO_x 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 NO_x 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 NO_x budget emission limitation for the control period covered by the report:

- i. identification of each NO_x budget unit;
 - ii. at the NO_x authorized account representative's option, the serial numbers of the NO_x 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 NO_x authorized account representative's option, for units sharing a common stack and having NO_x 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.
- u. In the compliance certification report under Section A.1.t.iv above, the NO_x authorized account representative shall certify, based upon reasonable inquiry of those persons with the primary responsibility for operating the source and the NO_x budget units at the source in compliance with the NO_x budget trading program, whether each NO_x 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 NO_x budget trading program applicable to the unit, including all the following:

- i. whether the unit was operated in compliance with the NO_x 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 NO_x emissions to the unit, in accordance with OAC rule 3745-14-08;
- iii. whether all the NO_x 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.1.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.

- v. The NO_x authorized account representative shall submit a complete NO_x budget permit renewal application for the NO_x budget source covering the NO_x budget units at the source in accordance with paragraph (E) of OAC rule 3745-77-08.
- 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 NO_x budget emission limitation under paragraph (E)(3) of OAC rule 3745-14-01.
- x. The permittee shall develop and maintain a written quality assurance/quality control plan for each continuous NO_x monitoring system designed to ensure continuous valid and representative readings of NO_x 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 NO_x monitoring system must be kept on-site and available for inspection during regular office hours.

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

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PTI Application: 08-04380

Issued: To be entered upon final issuance

Facility ID: 0857042072

None

Dayco

PTI A

Emissions Unit ID: B001

Issued: To be entered upon final issuance

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(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 specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
B001 - 80 MW (1115 mmBtu/hr heat input) natural gas or fuel oil fired simple cycle turbine with water injection controls, CT-1; *Modification	OAC rule 3745-31-05(A)(3)

	<p style="text-align: center;"><u>Applicable Emissions Limitations/Control Measures</u></p>	
<p>40 CFR Part 75</p> <p>OAC rule rules 3745-31-10 through 3745-31-20</p>	<p>Sulfur dioxide (SO₂) emissions from this emissions unit shall not exceed 0.0006 lb/MMBtu during natural gas combustion, 0.055 lb/MMBtu during number two fuel oil combustion, and 30.86 TPY.</p>	<p>CO emissions from this emissions unit shall not exceed 160.8 TPY , as a rolling 12-month period , with the total combined CO emissions from emissions units B001, B002, and B003 not to exceed 160.8 TPY, as a rolling 12-month period .</p>
<p>OAC rule 3745-17-07(A)(1)</p>	<p>Visible particulate emissions (PE) shall not exceed 10% opacity, as a six-minute average, except for cold start-up and shutdown periods.</p>	<p>Visible particulate emissions (PE) shall not exceed 10% opacity, as a six-minute average, except for cold start-up and shutdown periods.</p>
<p>OAC rule 3745-17-11(B)(4)</p>	<p>See A.I.2.d.</p>	<p>See A.I.2.d.</p>
<p>OAC rule 3745-18-06(F) 40 CFR Part 60 Subpart GG OAC rule 3745-16-02</p>	<p>Volatile organic compound (VOC) emissions from this emissions unit shall not exceed 10.0 lbs/hr and 15.0 TPY.</p>	<p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 3745-31-20, 3745-23-06(B), 3745-21-08(B) and 3745-31-05(C) and 40 CFR Part 52, Section 52.21.</p>
<p>OAC rule 3745-14</p>	<p>Particulate/PM10 emissions from this emissions unit shall not exceed 8 lbs/hr and 0.0072 lb/MMBtu during natural gas combustion; 15.0 lbs/hr and 0.013 lb/MMBtu during number two fuel oil combustion; and 15.5 TPY.</p>	<p>See Part I, term A.4.</p>
<p>OAC rule 3745-31-05(C) (Synthetic minor to avoid MACT rule requirements)</p>	<p>Nitrogen oxides (NO_x) emissions from this emissions unit shall not exceed 113 lbs/hr and 25 ppmvd at 15% oxygen at full load during natural gas combustion; 195 lbs/hr and 42 ppmvd at 15% oxygen at full load during number two fuel oil combustion; and 132 TPY, as a rolling, 12-month period.</p>	<p>The SO₂ emissions from this emissions unit shall not exceed 30.86 tons per rolling, 12-month period.</p>
<p>OAC rule 3745-23-06(B) and OAC rule 3745-21-08(B)</p>	<p>The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to 40 CFR Part 52, Section 52.21 and OAC rules 3745-31-05 (A)(3), and 3745-31-10 through 3745-31-20.</p>	<p>The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to 40 CFR Part 52, Section 52.21 and OAC rules 3745-31-05 (A)(3), and 3745-31-10 through 3745-31-20.</p>
	<p>The maximum one-hour carbon monoxide (CO) emissions from this emissions unit shall not exceed 2000 lbs/hr (1700 lbs/hr during natural gas combustion or 350 lbs/hr during number two fuel oil combustion, based on a 30-day average).</p>	<p>See Part II, Term 1.</p> <p>Total combined formaldehyde emissions from emissions units B001, B002, and B003 shall not exceed 4.20 tons per rolling, 12-month period.</p>

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See section A.I.2.g.

2. Additional Terms and Conditions
 - 2.a In accordance with OAC rules 3745-31-10 through 3745-31-20 and 40 CFR Part 52.21, the permittee shall use water injection to reduce NO_x emissions to 25 ppmvd at 15% oxygen, at full load, when burning natural gas, and 42 ppmvd at 15% oxygen, at full load, when burning number two fuel oil.
 - 2.b In accordance with OAC rules 3745-31-10 through 3745-31-20 and 40 CFR Part 52.21, the permittee shall use natural gas as the primary fuel and number two fuel oil with a maximum sulfur content of 0.05 percent by weight, as the back-up fuel.
 - 2.c "Start-up" shall be defined as the time necessary to bring a turbine on line from a no load condition to fully activated water injection , not to exceed thirty (30) minutes. Shutdown periods shall not exceed thirty (30) minutes.
 - 2.d The minimum stack height for this emissions unit shall be at least 88 feet above the ground.
 - 2.e "Full load" shall be defined as all periods when the hourly average electrical output exceeds 72 MW.
 - 2.f In lieu of monitoring the exhaust stack gas flowrate as required by 40 CFR Part 60, Appendix B - Performance Specification 6, the permittee shall use a certified NO_x continuous emissions monitoring system in conjunction with a fuel flow monitor as described in 40 CFR Part 75, and certified CO continuous emissions monitoring system in conjunction with a fuel flow monitor (in a manner similar to that used for NO_x) to meet these requirements. The relative accuracy requirements of Performance Specifications 6 shall apply to the NO_x and CO continuous emissions monitoring systems.
 - 2.g The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

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.

II. Operational Restrictions

1. The sulfur content of the number two fuel oil fired in this emissions unit shall not exceed 0.05% , by weight.
2. The permittee shall be prohibited from combusting fuel oil in this emissions unit from April 1 through September 30 of each year, except for one-half hour of each month or under emergency conditions when natural gas supplies are not available. This exclusion is permitted contingent upon the submittal to the Regional Air Pollution Control Agency of adequate documentation from the permittee that natural gas was not available.
3. The maximum number two fuel oil usage in this emissions unit shall not exceed 8,580,000 gallons, per rolling, 12-month period.
4. The maximum natural gas usage in this emissions unit shall not exceed 2,580,000,000 cubic feet, per rolling, 12-month period.
5. In lieu of complying with the natural gas usage restriction specified above, the permittee may combust an additional 150 cubic feet of natural gas in this emissions unit for each gallon of number two fuel oil which is not combusted by this emissions unit. Under no circumstance shall the natural gas consumption exceed 3,870,000,000 cubic feet, per rolling, 12-month period.
6. The permittee shall burn only pipeline quality natural gas or number two fuel oil in this emissions unit.

III. Monitoring and/or Record keeping Requirements

1. Continuous SO₂ Emissions Monitoring :
 - a. The permittee shall either operate and maintain equipment to continuously monitor and record SO₂ emissions from this emissions unit (SO₂ pollutant concentration and flow monitor), in units of the applicable standard(s) or meet the requirements of 40 CFR Part 75 Appendix D or 40 CFR Part 75.19(c). Such continuous monitoring and recording equipment (SO₂ pollutant concentration and flow monitor) shall comply with the requirements specified in 40 CFR part 60

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and 40 CFR Part 75.

- b. If used, each continuous monitoring system (SO₂ pollutant concentration and flow monitor) consists of all the equipment used to acquire and record data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.
- c. If used, the permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous SO₂ monitoring system (SO₂ pollutant concentration and flow monitor) has been certified in accordance with the applicable requirements specified in 40 CFR Part 60 and Part 75. The letter of certification shall be made available to the Director upon request.
- d. If used, the permittee shall maintain records of the following data obtained by the continuous SO₂ monitoring system (SO₂ pollutant concentration and flow monitor): emissions of SO₂ in parts per million, emissions of SO₂ in lb/MMBTU in the appropriate averaging period (e.g., hourly) , results of quarterly cylinder gas audits, linearity check, or relative accuracy test audits , and magnitude of manual calibration adjustments.
- e. The permittee shall develop a written quality assurance/quality control plan for the continuous SO₂ monitoring system (SO₂ pollutant concentration and flow monitor) or accepted system designed to ensure continuous valid and representative readings of SO₂ emissions in units of the applicable standard(s). The plan shall follow the applicable requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous SO₂ monitoring system must be kept on site and available for inspection during regular office hours.
- f. The permittee may conduct the relative accuracy test audits for the continuous SO₂ monitoring system (SO₂ pollutant concentration and flow monitor) 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.

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- g. Whenever the monitoring system or accepted 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.
2. Continuous NO_x Emissions Monitoring :
 - a. The permittee shall operate and maintain equipment to continuously monitor and record NO_x emissions from this emissions unit in units of the applicable

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- standard(s). Such continuous monitoring and recording equipment shall comply with the applicable requirements specified in 40 CFR Part 60 and Part 75.
- b. Each continuous monitoring system consists of all the equipment used to acquire and record data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.
 - c. The permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous NO_x monitoring system has been certified in accordance with the applicable requirements specified in 40 CFR Part 60 and Part 75. The letter of certification shall be made available to the Director upon request.
 - d. The permittee shall maintain records of the following data obtained by the continuous NO_x monitoring system: emissions of NO_x in ppmvd at 15% oxygen at full load, emissions of NO_x in lbs/hr , and results of daily zero/span calibration checks, results of quarterly cylinder gas audits, linearity check, or relative accuracy test audits, and magnitude of manual calibration adjustments.
 - e. The permittee shall develop a written quality assurance/quality control plan for the continuous NO_x monitoring system designed to ensure continuous valid and representative readings of NO_x emissions in units of the applicable standard(s). The plan shall follow the applicable requirements of 40 CFR Part 60, Appendix F and 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous NO_x monitoring system must be kept on site and available for inspection during regular office hours.
 - f. 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. Cylinder gas audits may be conducted in accordance with the frequencies specified in 40 CFR Part 75, Appendix B for linearity checks. 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.
 - g. 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

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applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.

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3. Continuous CO Emissions Monitoring :
 - a. The permittee shall operate and maintain equipment to continuously monitor and record CO emissions from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.
 - b. Each continuous monitoring system consists of all the equipment used to acquire and record data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.
 - c. The permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous CO monitoring system has been certified in accordance with 40 CFR Part 60. The letter of certification shall be made available to the Director upon request.
 - d. The permittee shall maintain records of the following data obtained by the continuous CO monitoring system: emissions of CO in lbs/hr , 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.
 - e. The permittee shall develop a written quality assurance/quality control plan for the continuous CO monitoring system designed to ensure continuous valid and representative readings of CO emissions in units of the applicable standard(s). The plan shall follow the applicable requirements for 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous CO monitoring system must be kept on site and available for inspection during regular office hours.
 - f. The permittee may conduct the relative accuracy test audits for the continuous carbon monoxide 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. Cylinder gas audits may be conducted in accordance with the frequencies specified in 40 CFR Part 75, Appendix B for linearity checks. 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.

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4. The permittee shall maintain hourly records of the total actual heat input values for this emissions unit, in MMBTU/hr. The total actual heat input values shall be determined using the applicable procedures specified in 40 CFR Part 75, Appendix F, Section 5.2.

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5. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The amount of number two fuel oil burned, in gallons.
 - b. The rolling, 12-month number two fuel oil usage rate, in gallons.
 - c. The amount of natural gas burned, in million cubic feet (MMCF).
 - d. The rolling, 12-month natural gas usage rate, in MMCF .
 - e. The rolling, 12-month NO_x emission rate, in tons.
 - f. The rolling, 12-month CO emission rate, in tons .
 - g. The rolling, 12-month SO₂ emission rate, in tons.
 - h. The number of hours the emissions unit is in operation when combusting natural gas.
 - i. The number of hours the emissions unit is in operation when combusting number two fuel oil.
 - j. The monthly formaldehyde emissions, in tons, determined as follows:
 - i. When burning natural gas, multiply the emission factor of 0.00071 lb formaldehyde/MMBtu (AP-42, Table 3.1-3, revised 4/00) by the monthly amount of natural gas burned, from Section A.III.5.c, and by the average heat content of natural gas, 1020 Btu/CF, and then divided by 2,000 lbs/ton.
 - ii. When burning number two fuel oil, multiply the emission factor of 0.00028 lb formaldehyde/MMBtu (AP-42, Table 3.1-4, revised 4/00) by the monthly amount of number two fuel oil burned, from Section A.III.5.a, and by the average heat content of number two fuel oil, 139 MMBtu/1000 gallon, and then divided by 2,000 lbs/ton.
 - iii. Add i + ii.
 - k. The rolling, 12-month formaldehyde emission rate, in tons.

6. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The 30-day average, hourly CO emission rate, in lbs/hr (as a 30-day average), when the emissions unit is combusting natural gas.
 - b. The 30-day average, hourly CO emission rate, in lbs/hr (as a 30-day average), when the emissions unit is combusting number two fuel oil.
 - c. The date, time and duration, in minutes, of each start-up and shutdown . (The terms start-up and shutdown are defined in Section A.I.2.c.).
7. The permittee shall monitor and record all periods of time when the unit is operated at "full load" conditions, based upon the definition of full load in Section A.I.2.e.; and
8. In accordance with 40 CFR Part 60, Subpart GG, Section 60.334(h)(1) , the permittee shall monitor the sulfur content of the fuel being fired in the turbine, except as provided in 40 CFR 60.334(h)(3). The frequency of determination of this value shall be in accordance with 40 CFR 60.334(i).
9. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO₂ emission rate (in lb/MMBtu).
10. Pursuant to 40 CFR 60.334(i)(1) or (3), the permittee shall determine fuel sulfur content in accordance with the requirements of 40 CFR 60.335(b)(10)(i) and 60.335(b)(10)(ii) .
11. For each day during which the permittee burns a fuel other than pipeline quality natural gas or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
12. If the permittee uses 40 CFR Part 75 Appendix D to comply with the SO₂ emissions limit, the permittee shall operate and maintain equipment to continuously monitor and record the actual 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.
13. 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. Such continuous monitoring and recording equipment shall comply

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with the requirements specified in 40 CFR Part 75. 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.

14. The permittee shall maintain monthly records of the following information for emissions units B001, B002, and B003, combined:
 - a. The formaldehyde emission rate, in tons (sum the formaldehyde emission rate for emissions units B001, B002, and B003, combined).
 - b. The CO emission rate, in tons (sum the CO emission rate for emissions units B001, B002, and B003, combined).
 - c. The rolling, 12-month formaldehyde emission rate, in tons.
 - d. The rolling, 12-month CO emission rate, in tons.

IV. Reporting Requirements

1. Continuous SO₂ Emissions Reporting :
 - a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of SO₂ values in excess of the applicable emission limitations specified in the terms and conditions of this permit . These reports shall also contain the total SO₂ emissions for the calendar quarter (in tons).
 - b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting any continuous SO₂ 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.

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- c. If there are no excess SO₂ 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 malfunction. 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. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

2. Continuous NO_x Emissions Reporting :

- a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NO_x values in excess of the applicable emission limitations specified in the terms and conditions of this permit . These reports shall also contain the total NO_x emissions for the calendar quarter (in tons).
- b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting any continuous NO_x 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.
- c. If there are no excess NO_x 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 malfunction. 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. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

3. Continuous CO Emissions Reporting :

- a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting the date, commencement and completion time, duration, magnitude, reason (if

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- known), and corrective actions taken (if any), of all instances of CO values in excess of the applicable emission limitations specified in the terms and conditions of this permit .
- b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting any continuous CO 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.
 - c. If there are no CO 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 malfunction. 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. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.
4. The permittee shall submit quarterly deviation (excursion) reports to the Regional Air Pollution Control Agency that identify any exceedances of the following information :
- a. The rolling, 12-month usage limitation for number two fuel oil of 8,580,000 gallons (for this emissions unit).
 - b. The rolling, 12-month usage limitation for natural gas of 2,580 MMCF (for this emissions unit).
 - c. The rolling, 12-month NO_x emission limitation of 132 tons (*for this emissions unit*).
 - d. The 30-day average, hourly CO emission limitation, when the emissions unit was combusting natural gas, of 1700 lbs/hr (for this emissions unit).
 - e. The 30-day average, hourly CO emission limitation when the emissions unit was combusting number two fuel oil, of 350 lbs/hr (for this emissions unit).

- f. The rolling, 12-month CO emission limitation of 160.8 tons, for this emissions unit.
- g. The rolling, 12-month CO emission limitation of 160.8 tons, for emissions units B001, B002, and B003, combined.
- h. The rolling, 12-month SO₂ emission limitation of 30.86 tons, for this emissions unit.
- i. All time periods during which the duration for all start-up and/or shutdown periods did not comply with the requirements established in Section A.III.2.c of this permit.
- j. For the number 2 fuel oil, any exceedances of the 0.05%, by weight, sulfur content and the calculated SO₂ emissions rate, in lb/MMBtu.
- k. Any time during which the permittee burns a fuel other than pipeline quality natural gas or number two fuel oil.
- l. The rolling, 12-month formaldehyde emission limitation of 4.20 tons, for emissions units B001, B002, and B003, combined.

These reports shall be submitted in accordance with the General Terms and Conditions of this permit.

- 5. The permittee shall submit quarterly reports which identify each period during which an exemption for ice-fog provided in 40 CFR Part 60.332(f) is in effect. The reports shall include the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time when the air pollution control system was reactivated. These reports shall be postmarked by April 30, July 30, October 30, and January 30 and each report shall cover the previous calendar quarter.

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:
 - a. Emission Limitations-
8 lbs/hr particulate/PM10 emissions and 0.0072 lb/MMBtu actual heat input
particulate/PM10 emissions, when firing natural gas

15 lbs/hr particulate/PM10 emissions and 0.013 lb/MMBtu actual heat input

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particulate/PM10 emissions, when firing number two fuel oil .

Applicable Compliance Method-

When combusting natural gas, compliance with the allowable lb/MMBtu particulate/PM10 emission limitation above may be based on the AP-42, Table 3.1-2a (revised 4/00) emission factor of 0.0019 lb/MMBtu. Compliance with the allowable lb/hr particulate/PM10 emission limitation above may be based on the AP-42, Table 3.1-2a (revised 4/00) emission factor of 0.0019 lb/MMBtu multiplied by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

When combusting number two fuel oil, compliance with the allowable lb/MMBtu particulate/PM10 emission limitation specified above shall be based upon an emission factor of 0.0062 lb/MMBtu.* Compliance with the hourly allowable particulate/PM10 emission limitation specified above may be based upon the emission factor of 0.0062 lb/MMBtu multiplied by the emissions unit's maximum rated heat input capacity (1115 MMBtu/hr).

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If required, the permittee shall demonstrate compliance with the allowable particulate/PM10 emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

*This emissions factor was established based upon emission data from the initial compliance demonstration conducted for this emissions unit on May 10, 1995.

- b. Emission Limitation-
15.5 TPY particulate/PM10 emissions.

Applicable Compliance Method-

Compliance with the annual allowable particulate/PM10 emissions limitation may be determined as follows:

- i. When combusting number two fuel oil, multiply the lbs/hr particulate/PM10 emissions, from Section A.V.1.a. above, by the annual number of hours of operation when combusting number two fuel oil (summation of the monthly values from Section A.III.5 for the calendar year), and then divide by 2000 lbs/ton.
- ii. When combusting natural gas, multiply the manufacturer-supplied emission factor of 0.0072 lb/MMBtu by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr), and then multiply the result by the annual number of hours of operation when combusting natural gas (summation of the monthly values from Section A.III.5 for the calendar year), and then divide by 2000 lbs/ton.
- iii. Add i + ii.

- c. Emission Limitations-
113 lbs/hr NO_x emissions, when firing natural gas.

195 lbs/hr NO_x emissions, when firing number two fuel oil.

Applicable Compliance Method-

Compliance with the hourly allowable NO_x emission limitations above shall be based on the use of the CEM specified in A.III.2. and the applicable 40 CFR Part 60 and 75 requirements. Emissions calculated using the 40 CFR Part 75 bias adjustment factor or using missing data procedures due to monitor downtime shall not be used to determine compliance with the hourly emission limitation.

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If required, compliance with the allowable NO_x emission limitations above , shall be determined based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Reference Methods 1 - 4 and Method 7 or 7E, using an arithmetic average of three (3) one-hour test runs.

- d. Emission Limitations-
25 ppmvd NO_x emissions at 15% oxygen, at full load, when firing natural gas.

42 ppmvd NO_x emissions at 15% oxygen, at full load, when firing number two fuel oil.

Applicable Compliance Method-

Compliance with the allowable NO_x emission limitations above shall be based on the use of the CEM specified in A.III.2. and the applicable 40 CFR Part 60 and 75 requirements .

If required, compliance with the hourly allowable NO_x emission limitations above, shall be determined based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Reference Methods 1 - 4 and Method 7 or 7E, using an arithmetic average of three (3) one-hour test runs.

- e. Emission Limitation-
132 TPY NO_x emissions, as a rolling, 12-month period .

Applicable Compliance Method-

Compliance with the annual allowable NO_x emission limitation above shall be based upon the record keeping requirements established in Sections A.III.2. and A.III.5 of this permit.

- f. Emission Limitation-
2000 lbs/hr CO emissions (maximum 1-hour limitation).

Applicable Compliance Method-

Compliance with the hourly allowable CO emission limitation above shall be based upon the data from the continuous CO emissions monitoring system requirement and the monitoring and record keeping requirements specified in Section A.III.3 of this permit . Emissions calculated using missing data procedures due to monitor downtime shall not be used to determine compliance with the hourly emission limitation.

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation through stack testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

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- g. Emission Limitations-
1700 lbs/hr CO emissions, based on a 30-day average, when firing natural gas.

- 350 lbs/hr CO emissions, based on a 30-day average, when firing number two fuel oil.

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Applicable Compliance Method-

Compliance with the hourly allowable CO emission limitations above shall be based upon the data from the continuous CO emissions monitoring system requirement and the monitoring and record keeping requirements specified in Sections A.III.3 and A.III.6 of this permit .

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitations above through stack testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

h. Emission Limitation-

160.8 TPY CO emissions, as a rolling, 12-month period (for this emissions unit).

Applicable Compliance Method-

Compliance with the annual allowable CO emission limitation above shall be based upon the use of CEM as specified in Section A.III.3 of this permit and the record keeping requirements specified in Section A.III.5 of this permit, .

i. Emission Limitation-

160.8 TPY CO emissions from emissions units B001, B002, and B003, combined , as a rolling, 12-month period .

Applicable Compliance Method-

Compliance with the annual allowable CO emission limitation above shall be based upon the use of CEM as specified in Section A.III.3 of this permit and the record keeping requirements specified in Sections A.III.5 and A.III.14 of this permit, .

j. Emission Limitation-

10.0 lbs/hr VOC emissions.

Applicable Compliance Method-

When combusting natural gas, compliance with the hourly allowable VOC emission limitation shall be based on multiplying the emission factor of 0.004 lb VOC/MMBtu* by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

When combusting number 2 fuel oil, compliance with the hourly allowable VOC emission limitation shall be based on multiplying the emission factor of 0.003 lb VOC/MMBtu *by the maximum rated heat input capacity of the emissions unit

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(1115 MMBtu/hr).

* established based upon emission data from the initial compliance demonstration conducted for this emissions unit on May 10, 1995

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

- k. Emission Limitation-
15.0 TPY VOC emissions.

Compliance with the annual allowable VOC emission limitation may be determined as follows:

- i. When combusting number two fuel oil, multiply the 0.003 lb VOC/MMBtu emission factor by the monthly amount of number two fuel oil burned, from section A.III.5.a, and by the average heat content of number two fuel oil (139 MMBtu/1000 gallon), and then divide by 2000 lbs/ton.
- ii. When combusting natural gas, multiply the 0.004 lb VOC/MMBtu emission factor by the monthly amount of natural gas burned, from section A.III.5.c, and by the average heat content of natural gas (1020 Btu/CF), and then divide by 2000 lbs/ton.
- iii. Add i + ii, and then sum the monthly VOC emission rates for the calendar year.

- l. Emission Limitation-
0.0006 lb SO₂ emissions/MMBtu actual heat input, when firing natural gas
0.055 lb SO₂ emissions/MMBtu actual heat input, when firing number two fuel oil

Applicable Compliance Method -

When firing natural gas, compliance with the allowable SO₂ emission limitation above will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, the permittee shall perform or require the supplier to perform an analysis of the natural gas for sulfur content, in accordance with the appropriate ASTM method (such as, ASTM method D3031), or an equivalent method as approved by the Director, in order to demonstrate compliance with this emission limitation using the appropriate equation specified in AP-42 Table 3.1-2a (4/00).

When firing number two fuel oil, compliance with the allowable SO₂ emission limitation above shall be based upon the fuel analysis and the record keeping requirements specified in Sections A.III.1, A.III.8 and A.III.9, and the use of the

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equations specified in OAC rule 3745-18-04(F).

If required, the permittee shall demonstrate with the allowable SO₂ emission limitations above through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6C.

- m. Emission Limitation-
30.86 TPY SO₂ emissions

Applicable Compliance Method-
Compliance shall be based upon the records required pursuant to Sections A.III.1, A.III.4, and A.III.5, and shall be the summation of the 12 monthly SO₂ emission rates for the calendar year, divided by 2000 lbs/ton.

- n. Emission Limitation-
4.20 TPY formaldehyde emissions from emissions units B001, B002, and B003 combined, as a rolling, 12-month period.

Applicable Compliance Method-
Compliance with the annual allowable formaldehyde emission limitation above shall be based upon the record keeping requirements specified in Sections A.III.5 and A.III.14 of this permit.

- o. Emission Limitation-
Visible PE shall not exceed 10% opacity, as a 6-minute average, except for cold start-up and shutdown periods.

Applicable Compliance Method-
Compliance shall be determined through visible emissions observations performed in accordance with the methods and procedures specified in USEPA Reference Method 9 of 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

1. The quality assurance/quality control plan for the continuous nitrogen oxides and sulfur dioxide monitoring systems, required pursuant to 40 CFR Part 75, Appendix B, must be made available during scheduled inspections and upon request by the Ohio EPA and/or Regional Air Pollution Control Agency.
2. * This is an administrative modification to PTI 08-04380 and represents no change in emissions.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
B001 - 80 MW (1115 MMBtu/hr heat input) natural gas or fuel oil fired simple cycle turbine with water injection controls, CT-1	None	None

2. Additional Terms and Conditions

2.a 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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Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
B002 - 80 MW (1115 mmBtu/hr heat input) natural gas or fuel oil fired simple cycle turbine with water injection controls, CT-2; *Modification	OAC rule 3745-31-05(A)(3)

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	and OAC rule 3745-21-08(B)	<u>Applicable Emissions Limitations/Control Measures</u>
40 CFR Part 75		Sulfur dioxide (SO ₂) emissions from this emissions unit shall not exceed 0.0006 lb/MMBtu during natural gas combustion, 0.055 lb/MMBtu during number two fuel oil combustion, and 30.86 TPY.
OAC rule rules 3745-31-10 through 3745-31-20		Volatile organic compound (VOC) emissions from this emissions unit shall not exceed 10.0 lbs/hr and 15.0 TPY.
OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(4)		Particulate/PM10 emissions from this emissions unit shall not exceed 8 lbs/hr and 0.0072 lb/MMBtu during natural gas combustion; 15.0 lbs/hr and 0.013 lb/MMBtu during number two fuel oil combustion; and 15.5 TPY.
OAC rule 3745-18-06(F) 40 CFR Part 60 Subpart GG OAC rule 3745-16-02		Nitrogen oxides (NO _x) emissions from this emissions unit shall not exceed 113 lbs/hr and 25 ppmvd at 15% oxygen at full load during natural gas combustion; 195 lbs/hr and 42 ppmvd at 15% oxygen at full load during number two fuel oil combustion; and 132 TPY, as a rolling, 12-month period.
OAC rule 3745-14		The maximum one-hour carbon monoxide (CO) emissions from this emissions unit shall not exceed 2000 lbs/hr (1700 lbs/hr during natural gas combustion or 350 lbs/hr during number two fuel oil combustion, based on a 30-day average).
OAC rule 3745-31-05(C) (Synthetic minor to avoid MACT rule requirements)		
OAC rule 3745-23-06(B)		

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CO emissions from this emissions unit shall not exceed 160.8 TPY , as a rolling 12-month period , with the total combined CO emissions from emissions units B001, B002, and B003 not to exceed 160.8 TPY, as a rolling 12-month period .

Visible particulate emissions (PE) shall not exceed 10% opacity, as a six-minute average, except for cold start-up and shutdown periods.

See A.I.2.d.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 3745-31-20, 3745-23-06(B), 3745-21-08(B) and 3745-31-05(C) and 40 CFR Part 52, Section 52.21.

See Part I, term A.4.

The SO₂ emissions from this emissions unit shall not exceed 30.86 tons per rolling, 12-month period.

The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to

40 CFR Part 52, Section 52.21 and OAC rules 3745-31-05 (A)(3), and 3745-31-10 through 3745-31-20.

See Part II, Term 1.

Total combined formaldehyde emissions from emissions units B001, B002, and B003 shall not exceed 4.20 tons per rolling, 12-month period.

See section A.I.2.g.

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Issued: To be entered upon final issuance**2. Additional Terms and Conditions**

- 2.a** In accordance with OAC rules 3745-31-10 through 3745-31-20 and 40 CFR Part 52.21, the permittee shall use water injection to reduce NO_x emissions to 25 ppmvd at 15% oxygen, at full load, when burning natural gas, and 42 ppmvd at 15% oxygen, at full load, when burning number two fuel oil.
- 2.b** In accordance with OAC rules 3745-31-10 through 3745-31-20 and 40 CFR Part 52.21, the permittee shall use natural gas as the primary fuel and number two fuel oil with a maximum sulfur content of 0.05 percent by weight, as the back-up fuel.
- 2.c** "Start-up" shall be defined as the time necessary to bring a turbine on line from a no load condition to fully activated water injection, not to exceed thirty (30) minutes. Shutdown periods shall not exceed thirty (30) minutes.
- 2.d** The minimum stack height for this emissions unit shall be at least 88 feet above the ground.
- 2.e** "Full load" shall be defined as all periods when the hourly average electrical output exceeds 72 MW.
- 2.f** In lieu of monitoring the exhaust stack gas flowrate as required by 40 CFR Part 60, Appendix B - Performance Specification 6, the permittee shall use a certified NO_x continuous emissions monitoring system in conjunction with a fuel flow monitor as described in 40 CFR Part 75, and certified CO continuous emissions monitoring system in conjunction with a fuel flow monitor (in a manner similar to that used for NO_x) to meet these requirements. The relative accuracy requirements of Performance Specifications 6 shall apply to the NO_x and CO continuous emissions monitoring systems.
- 2.g** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

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

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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.

II. Operational Restrictions

1. The sulfur content of the number two fuel oil fired in this emissions unit shall not exceed 0.05% , by weight.
2. The permittee shall be prohibited from combusting fuel oil in this emissions unit from April 1 through September 30 of each year, except for one-half hour of each month or under emergency conditions when natural gas supplies are not available. This exclusion is permitted contingent upon the submittal to the Regional Air Pollution Control Agency of adequate documentation from the permittee that natural gas was not available.
3. The maximum number two fuel oil usage in this emissions unit shall not exceed 8,580,000 gallons, per rolling, 12-month period.
4. The maximum natural gas usage in this emissions unit shall not exceed 2,580,000,000 cubic feet, per rolling, 12-month period.
5. In lieu of complying with the natural gas usage restriction specified above, the permittee may combust an additional 150 cubic feet of natural gas in this emissions unit for each gallon of number two fuel oil which is not combusted by this emissions unit. Under no circumstance shall the natural gas consumption exceed 3,870,000,000 cubic feet, per rolling, 12-month period.
6. The permittee shall burn only pipeline quality natural gas or number two fuel oil in this emissions unit.

III. Monitoring and/or Record keeping Requirements

1. Continuous SO₂ Emissions Monitoring :
 - a. The permittee shall either operate and maintain equipment to continuously monitor and record SO₂ emissions from this emissions unit (SO₂ pollutant concentration and flow monitor), in units of the applicable standard(s) or meet the requirements of 40 CFR Part 75 Appendix D or 40 CFR Part 75.19(c). Such continuous monitoring and recording equipment (SO₂ pollutant concentration

and flow monitor) shall comply with the requirements specified in 40 CFR part 60 and 40 CFR Part 75.

- b. If used, each continuous monitoring system (SO₂ pollutant concentration and flow monitor) consists of all the equipment used to acquire and record data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.
- c. If used, the permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous SO₂ monitoring system (SO₂ pollutant concentration and flow monitor) has been certified in accordance with the applicable requirements specified in 40 CFR Part 60 and Part 75. The letter of certification shall be made available to the Director upon request.
- d. If used, the permittee shall maintain records of the following data obtained by the continuous SO₂ monitoring system (SO₂ pollutant concentration and flow monitor): emissions of SO₂ in parts per million, emissions of SO₂ in lb/MMBTU in the appropriate averaging period (e.g., hourly) , results of quarterly cylinder gas audits, linearity check, or relative accuracy test audits , and magnitude of manual calibration adjustments.
- e. The permittee shall develop a written quality assurance/quality control plan for the continuous SO₂ monitoring system (SO₂ pollutant concentration and flow monitor) or accepted system designed to ensure continuous valid and representative readings of SO₂ emissions in units of the applicable standard(s). The plan shall follow the applicable requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous SO₂ monitoring system must be kept on site and available for inspection during regular office hours.
- f. The permittee may conduct the relative accuracy test audits for the continuous SO₂ monitoring system (SO₂ pollutant concentration and flow monitor) 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.
- g. Whenever the monitoring system or accepted system fails to meet the quality assurance or data validation requirements of 40 CFR Part 75, data shall be

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substituted using the applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.

2. Continuous NO_x Emissions Monitoring :
 - a. The permittee shall operate and maintain equipment to continuously monitor and record NO_x emissions from this emissions unit in units of the applicable

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- standard(s). Such continuous monitoring and recording equipment shall comply with the applicable requirements specified in 40 CFR Part 60 and Part 75.
- b. Each continuous monitoring system consists of all the equipment used to acquire and record data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.
 - c. The permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous NO_x monitoring system has been certified in accordance with the applicable requirements specified in 40 CFR Part 60 and Part 75. The letter of certification shall be made available to the Director upon request.
 - d. The permittee shall maintain records of the following data obtained by the continuous NO_x monitoring system: emissions of NO_x in ppmvd at 15% oxygen at full load, emissions of NO_x in lbs/hr , and results of daily zero/span calibration checks, results of quarterly cylinder gas audits, linearity check, or relative accuracy test audits, and magnitude of manual calibration adjustments.
 - e. The permittee shall develop a written quality assurance/quality control plan for the continuous NO_x monitoring system designed to ensure continuous valid and representative readings of NO_x emissions in units of the applicable standard(s). The plan shall follow the applicable requirements of 40 CFR Part 60, Appendix F and 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous NO_x monitoring system must be kept on site and available for inspection during regular office hours.
 - f. 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. Cylinder gas audits may be conducted in accordance with the frequencies specified in 40 CFR Part 75, Appendix B for linearity checks. 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.
 - g. 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

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applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.

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3. Continuous CO Emissions Monitoring :
 - a. The permittee shall operate and maintain equipment to continuously monitor and record CO emissions from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.
 - b. Each continuous monitoring system consists of all the equipment used to acquire and record data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.
 - c. The permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous CO monitoring system has been certified in accordance with 40 CFR Part 60. The letter of certification shall be made available to the Director upon request.
 - d. The permittee shall maintain records of the following data obtained by the continuous CO monitoring system: emissions of CO in lbs/hr , 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.
 - e. The permittee shall develop a written quality assurance/quality control plan for the continuous CO monitoring system designed to ensure continuous valid and representative readings of CO emissions in units of the applicable standard(s). The plan shall follow the applicable requirements for 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous CO monitoring system must be kept on site and available for inspection during regular office hours.
 - f. The permittee may conduct the relative accuracy test audits for the continuous carbon monoxide 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. Cylinder gas audits may be conducted in accordance with the frequencies specified in 40 CFR Part 75, Appendix B for linearity checks. 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.

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4. The permittee shall maintain hourly records of the total actual heat input values for this emissions unit, in MMBtu/hr. The total actual heat input values shall be determined using the applicable procedures specified in 40 CFR Part 75, Appendix F, Section 5.2.

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5. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The amount of number two fuel oil burned, in gallons.
 - b. The rolling, 12-month number two fuel oil usage rate, in gallons.
 - c. The amount of natural gas burned, in million cubic feet (MMCF).
 - d. The rolling, 12-month natural gas usage rate, in MMCF .
 - e. The rolling, 12-month NO_x emission rate, in tons.
 - f. The rolling, 12-month CO emission rate, in tons .
 - g. The rolling, 12-month SO₂ emission rate, in tons.
 - h. The number of hours the emissions unit is in operation when combusting natural gas.
 - i. The number of hours the emissions unit is in operation when combusting number two fuel oil.
 - j. The monthly formaldehyde emissions, in tons, determined as follows:
 - i. When burning natural gas, multiply the emission factor of 0.00071 lb formaldehyde/MMBtu (AP-42, Table 3.1-3, revised 4/00) by the monthly amount of natural gas burned, from Section A.III.5.c, and by the average heat content of natural gas, 1020 Btu/CF, and then divided by 2,000 lbs/ton.
 - ii. When burning number two fuel oil, multiply the emission factor of 0.00028 lb formaldehyde/MMBtu (AP-42, Table 3.1-4, revised 4/00) by the monthly amount of number two fuel oil burned, from Section A.III.5.a, and by the average heat content of number two fuel oil, 139 MMBtu/1000 gallon, and then divided by 2,000 lbs/ton.
 - iii. Add i + ii.
 - k. The rolling, 12-month formaldehyde emission rate, in tons.

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6. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The 30-day average, hourly CO emission rate, in lbs/hr (as a 30-day average), when the emissions unit is combusting natural gas.
 - b. The 30-day average, hourly CO emission rate, in lbs/hr (as a 30-day average), when the emissions unit is combusting number two fuel oil.
 - c. The date, time and duration, in minutes, of each start-up and shutdown . (The terms start-up and shutdown are defined in Section A.I.2.c.).
7. The permittee shall monitor and record all periods of time when the unit is operated at "full load" conditions, based upon the definition of full load in Section A.I.2.e.; and
8. In accordance with 40 CFR Part 60, Subpart GG, Section 60.334(h)(1) , the permittee shall monitor the sulfur content of the fuel being fired in the turbine, except as provided in 40 CFR 60.334(h)(3). The frequency of determination of this value shall be in accordance with 40 CFR 60.334(i).
9. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO₂ emission rate (in lb/MMBtu).
10. *Pursuant to 40 CFR 60.334(i)(1) or (3), the* permittee shall determine fuel sulfur content in accordance with the requirements of 40 CFR 60.335(b)(10)(i) and 60.335(b)(10)(ii) .
11. For each day during which the permittee burns a fuel other than pipeline quality natural gas or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
12. If the permittee uses 40 CFR Part 75 Appendix D to comply with the SO₂ emissions limit, the permittee shall operate and maintain equipment to continuously monitor and record the actual 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.

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13. 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. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75. 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.
14. The permittee shall maintain monthly records of the following information for emissions units B001, B002, and B003, combined:
 - a. The formaldehyde emission rate, in tons (sum the formaldehyde emission rate for emissions units B001, B002, and B003, combined).
 - b. The CO emission rate, in tons (sum the CO emission rate for emissions units B001, B002, and B003, combined).
 - c. The rolling, 12-month formaldehyde emission rate, in tons.
 - d. The rolling, 12-month CO emission rate, in tons.

IV. Reporting Requirements

1. Continuous SO₂ Emissions Reporting :
 - a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of SO₂ values in excess of the applicable emission limitations specified in the terms and conditions of this permit . These reports shall also contain the total SO₂ emissions for the calendar quarter (in tons).
 - b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting any continuous SO₂ 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.

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- c. If there are no excess SO₂ 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 malfunction. 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. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

2. Continuous NO_x Emissions Reporting :

- a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NO_x values in excess of the applicable emission limitations specified in the terms and conditions of this permit. These reports shall also contain the total NO_x emissions for the calendar quarter (in tons).
- b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting any continuous NO_x 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.
- c. If there are no excess NO_x 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 malfunction. 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. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

3. Continuous CO Emissions Reporting :

- a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of CO values in excess of the applicable emission limitations specified in the terms and conditions of this permit .
 - b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting any continuous CO 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.
 - c. If there are no CO 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 malfunction. 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. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.
4. The permittee shall submit quarterly deviation (excursion) reports to the Regional Air Pollution Control Agency that identify any exceedances of the following information :
 - a. The rolling, 12-month usage limitation for number two fuel oil of 8,580,000 gallons (for this emissions unit).
 - b. The rolling, 12-month usage limitation for natural gas of 2,580 MMCF (for this emissions unit).
 - c. The rolling, 12-month NO_x emission limitation of 132 tons (*for this emissions unit*).
 - d. The 30-day average, hourly CO emission limitation, when the emissions unit was combusting natural gas, of 1700 lbs/hr (for this emissions unit).
 - e. The 30-day average, hourly CO emission limitation when the emissions unit was combusting number two fuel oil, of 350 lbs/hr (for this emissions unit).

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- f. The rolling, 12-month CO emission limitation of 160.8 tons, for this emissions unit.
- g. The rolling, 12-month CO emission limitation of 160.8 tons, for emissions units B001, B002, and B003, combined.
- h. The rolling, 12-month SO₂ emission limitation of 30.86 tons, for this emissions unit.
- i. All time periods during which the duration for all start-up and/or shutdown periods did not comply with the requirements established in Section A.III.2.c of this permit.
- j. For the number 2 fuel oil, any exceedances of the 0.05%, by weight, sulfur content and the calculated SO₂ emissions rate, in lb/MMBtu.
- k. Any time during which the permittee burns a fuel other than pipeline quality natural gas or number two fuel oil.
- l. The rolling, 12-month formaldehyde emission limitation of 4.20 tons, for emissions units B001, B002, and B003, combined.

These reports shall be submitted in accordance with the General Terms and Conditions of this permit.

- 5. The permittee shall submit quarterly reports which identify each period during which an exemption for ice-fog provided in 40 CFR Part 60.332(f) is in effect. The reports shall include the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time when the air pollution control system was reactivated. These reports shall be postmarked by April 30, July 30, October 30, and January 30 and each report shall cover the previous calendar quarter.

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:
 - a. Emission Limitations-
8 lbs/hr particulate/PM10 emissions and 0.0072 lb/MMBtu actual heat input

particulate/PM10 emissions, when firing natural gas

15 lbs/hr particulate/PM10 emissions and 0.013 lb/MMBtu actual heat input
particulate/PM10 emissions, when firing number two fuel oil .

Applicable Compliance Method-

When combusting natural gas, compliance with the allowable lb/MMBtu particulate/PM10 emission limitation above may be based on the AP-42, Table 3.1-2a (revised 4/00) emission factor of 0.0019 lb/MMBtu. Compliance with the allowable lb/hr particulate/PM10 emission limitation above may be based on the AP-42, Table 3.1-2a (revised 4/00) emission factor of 0.0019 lb/MMBtu multiplied by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

When combusting number two fuel oil, compliance with the allowable lb/MMBtu particulate/PM10 emission limitation specified above shall be based upon an emission factor of 0.0062 lb/MMBtu.* Compliance with the hourly allowable particulate/PM10 emission limitation specified above may be based upon the emission factor of 0.0062 lb/MMBtu multiplied by the emissions unit's maximum rated heat input capacity (1115 MMBtu/hr).

If required, the permittee shall demonstrate compliance with the allowable particulate/PM10 emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

*This emissions factor was established based upon emission data from the initial compliance demonstration conducted for this emissions unit on May 10, 1995.

- b. Emission Limitation-
15.5 TPY particulate/PM10 emissions.

Applicable Compliance Method-

Compliance with the annual allowable particulate/PM10 emissions limitation may be determined as follows:

- i. When combusting number two fuel oil, multiply the lbs/hr particulate/PM10 emissions, from Section A.V.1.a. above, by the annual number of hours of operation when combusting number two fuel oil (summation of the monthly values from Section A.III.5 for the calendar year), and then divide by 2000 lbs/ton.
- ii. When combusting natural gas, multiply the manufacturer-supplied emission factor of 0.0072 lb/MMBtu by the maximum rated heat input

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capacity of the emissions unit (1115 MMBtu/hr), and then multiply the result by the annual number of hours of operation when combusting natural gas (summation of the monthly values from Section A.III.5 for the calendar year), and then divide by 2000 lbs/ton.

iii. Add i + ii.

c. Emission Limitations-
113 lbs/hr NO_x emissions, when firing natural gas.

195 lbs/hr NO_x emissions, when firing number two fuel oil.

Applicable Compliance Method-

Compliance with the hourly allowable NO_x emission limitations above shall be based on the use of the CEM specified in A.III.2. and the applicable 40 CFR Part 60 and 75 requirements . Emissions calculated using the 40 CFR Part 75 bias adjustment factor or using missing data procedures due to monitor downtime shall not be used to determine compliance with the hourly emission limitation.

If required, compliance with the allowable NO_x emission limitations above , shall be determined based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Reference Methods 1 - 4 and Method 7 or 7E, using an arithmetic average of three (3) one-hour test runs.

d. Emission Limitations-
25 ppmvd NO_x emissions at 15% oxygen, at full load, when firing natural gas.

42 ppmvd NO_x emissions at 15% oxygen, at full load, when firing number two fuel oil.

Applicable Compliance Method-

Compliance with the allowable NO_x emission limitations above shall be based on the use of the CEM specified in A.III.2. and the applicable 40 CFR Part 60 and 75 requirements .

If required, compliance with the hourly allowable NO_x emission limitations above , shall be determined based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Reference Methods 1 - 4 and Method 7 or 7E, using an arithmetic average of three (3) one-hour test runs.

- e. Emission Limitation-
132 TPY NO_x emissions, as a rolling, 12-month period .

Applicable Compliance Method-

Compliance with the annual allowable NO_x emission limitation above shall be based upon the record keeping requirements established in Sections A.III.2. and A.III.5 of this permit.

- f. Emission Limitation-
2000 lbs/hr CO emissions (maximum 1-hour limitation).

Applicable Compliance Method-

Compliance with the hourly allowable CO emission limitation above shall be based upon the data from the continuous CO emissions monitoring system requirement and the monitoring and record keeping requirements specified in Section A.III.3 of this permit . Emissions calculated using missing data procedures due to monitor downtime shall not be used to determine compliance with the hourly emission limitation.

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation through stack testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

- g. Emission Limitations-
1700 lbs/hr CO emissions, based on a 30-day average, when firing natural gas.

350 lbs/hr CO emissions, based on a 30-day average, when firing number two fuel oil.

Applicable Compliance Method-

Compliance with the hourly allowable CO emission limitations above shall be

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based upon the data from the continuous CO emissions monitoring system

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requirement and the monitoring and record keeping requirements specified in Sections A.III.3 and A.III.6 of this permit .

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitations above through stack testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

- h. Emission Limitation-
160.8 TPY CO emissions, as a rolling, 12-month period (for this emissions unit).

Applicable Compliance Method-

Compliance with the annual allowable CO emission limitation above shall be based upon the use of CEM as specified in Section A.III.3 of this permit and the record keeping requirements specified in Section A.III.5 of this permit, .

- i. Emission Limitation-
160.8 TPY CO emissions from emissions units B001, B002, and B003, combined , as a rolling, 12-month period .

Applicable Compliance Method-

Compliance with the annual allowable CO emission limitation above shall be based upon the use of CEM as specified in Section A.III.3 of this permit and the record keeping requirements specified in Sections A.III.5 and A.III.14 of this permit, .

- j. Emission Limitation-
10.0 lbs/hr VOC emissions

Applicable Compliance Method-

When combusting natural gas, compliance with the hourly allowable VOC emission limitation shall be based on multiplying the emission factor of 0.004 lb VOC/MMBtu* by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

When combusting number 2 fuel oil, compliance with the hourly allowable VOC emission limitation shall be based on multiplying the emission factor of 0.003 lb VOC/MMBtu *by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

* established based upon emission data from the initial compliance

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demonstration conducted for this emissions unit on May 10, 1995

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

- k. Emission Limitation-
15.0 TPY VOC emissions.

Compliance with the annual allowable VOC emission limitation may be determined as follows:

- i. When combusting number two fuel oil, multiply the 0.003 lb VOC/MMBtu emission factor by the monthly amount of number two fuel oil burned, from section A.III.5.a, and by the average heat content of number two fuel oil (139 MMBtu/1000 gallon), and then divide by 2000 lbs/ton.
- ii. When combusting natural gas, multiply the 0.004 lb VOC/MMBtu emission factor by the monthly amount of natural gas burned, from section A.III.5.c, and by the average heat content of natural gas (1020 Btu/CF), and then divide by 2000 lbs/ton.
- iii. Add i + ii, and then sum the monthly VOC emission rates for the calendar year.

- l. Emission Limitation-
0.0006 lb SO₂ emissions/MMBtu actual heat input, when firing natural gas
0.055 lb SO₂ emissions/MMBtu actual heat input, when firing number two fuel oil

Applicable Compliance Method -

When firing natural gas, compliance with the allowable SO₂ emission limitation above will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, the permittee shall perform or require the supplier to perform an analysis of the natural gas for sulfur content, in accordance with the appropriate ASTM method (such as, ASTM method D3031), or an equivalent method as approved by the Director, in order to demonstrate compliance with this emission limitation using the appropriate equation specified in AP-42 Table 3.1-2a (4/00).

When firing number two fuel oil, compliance with the allowable SO₂ emission

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limitation above shall be based upon the fuel analysis and the record keeping requirements specified in Sections A.III.1, A.III.8 and A.III.9, and the use of the equations specified in OAC rule 3745-18-04(F).

If required, the permittee shall demonstrate with the allowable SO₂ emission limitations above through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6C.

- m. Emission Limitation-
30.86 TPY SO₂ emissions

Applicable Compliance Method-
Compliance shall be based upon the records required pursuant to Sections A.III.1, A.III.4, and A.III.5, and shall be the summation of the 12 monthly SO₂ emission rates for the calendar year, divided by 2000 lbs/ton.

- n. Emission Limitation-
4.20 TPY formaldehyde emissions from emissions units B001, B002, and B003 combined, as a rolling, 12-month period.

Applicable Compliance Method-
Compliance with the annual allowable formaldehyde emission limitation above shall be based upon the record keeping requirements specified in Sections A.III.5 and A.III.14 of this permit.

- o. Emission Limitation-
Visible PE shall not exceed 10% opacity, as a 6-minute average, except for cold start-up and shutdown periods.

Applicable Compliance Method-
Compliance shall be determined through visible emissions observations performed in accordance with the methods and procedures specified in USEPA Reference Method 9 of 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

1. The quality assurance/quality control plan for the continuous nitrogen oxides and sulfur dioxide monitoring systems, required pursuant to 40 CFR Part 75, Appendix B, must be made available during scheduled inspections and upon request by the Ohio EPA and/or Regional Air Pollution Control Agency.
2. * This is an administrative modification to PTI 08-04380 and represents no change in emissions.

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B. State Only Enforceable Section**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 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>
B002 - 80 MW (1115 mmBtu/hr heat input) natural gas or fuel oil fired simple cycle turbine with water injection controls, CT-2	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

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None

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Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
B003 - 80 MW (1115 mmBtu/hr heat input) natural gas or fuel oil fired simple cycle turbine with water injection and dry low NO _x (DLN) combustor controls, CT-3; *Modification	OAC rule 3745-31-05(A)(3)

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	Applicable Emissions Limitations/Control Measures	lbs/hr during start-up and shutdown periods when firing natural gas; and 800 lbs/hr when firing number two fuel oil
40 CFR Part 75	Sulfur dioxide (SO ₂) emissions from this emissions unit shall not exceed 0.0006 lb/MMBtu during natural gas combustion, 0.055 lb/MmBtu during number two fuel oil combustion, and 30.86 TPY.	CO emissions from this emissions unit shall not exceed 160.8 TPY , as a rolling 12-month limit, including periods of start-up and shutdown, with the total combined CO emissions from emissions units B001, B002, and B003 not to exceed 160.8 TPY, as a rolling 12-month period , including periods of start-up and shutdown.
OAC rules 3745-31-10 through 3745-31-20.	Particulate/PM10 emissions from this emissions unit shall not exceed 8 lbs/hr and 0.0072 lb/MmBtu during natural gas combustion; 15.0 lbs/hr and 0.013 lb/MMBtu during number two fuel oil combustion; and 15.5 TPY.	Visible particulate emissions (PE) shall not exceed 10% opacity, as a six-minute average, except for cold start-up and shutdown periods.
OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(4) OAC rule 3745-18-06(F) OAC rule 3745-23-06 40 CFR Part 60 Subpart GG OAC rule 3745-16-02	Nitrogen oxides (NO _x) emissions from this emissions unit shall not exceed 62 lbs/hr and 15 ppmvd at 15% oxygen at full load during natural gas combustion; 195 lbs/hr and 42 ppmvd at 15% oxygen at full load during number two fuel oil combustion; and 110 TPY, as a rolling, 12-month period .	See A.I.2.d. The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 3745-31-20, 3745-23-06(B), 3745-21-08(B) and 3745-31-05(C) and 40 CFR Part 52, Section 52.21.
OAC rule 3745-14		See Part I, Term A.4.
OAC rule 3745-31-05(C) (Synthetic minor to avoid MACT rule requirements)	Carbon monoxide (CO) emissions from this emissions unit shall not exceed 301 lbs/hr at all operating loads, excluding start-up and shutdown periods when firing natural gas; 413	SO ₂ emissions from this emissions unit shall not exceed 30.86 tons per rolling, 12-month period.
OAC rule 3745-23-06(B) and OAC rule 3745-21-08(B)		The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to 40 CFR Part 52, Section

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52.21 and OAC rules
3745-31-05 (A)(3), and
3745-31-10 through
3745-31-20.

See Part II, Term 1.

Total combined
formaldehyde emissions
from emissions units
B001, B002, and B003
shall not exceed 4.20
tons per rolling, 12-month
period.

See section A.I.2.g.

2. Additional Terms and Conditions

- 2.a** In accordance with OAC rules 3745-31-10 through 3745-31-20 and 40 CFR Part 52.21, the permittee shall use water injection and dry low NO_x (DLN) combustion technology to reduce NO_x emissions to 15 ppmvd at 15% oxygen, at full load, when burning natural gas, and 42 ppmvd at 15% oxygen, at full load, when burning number two fuel oil.
- 2.b** In accordance with OAC rules 3745-31-10 through 3745-31-20 and 40 CFR Part 52.21, the permittee shall use natural gas as the primary fuel and number two fuel oil with a maximum sulfur content of 0.05 percent, by weight, as the back-up fuel.
- 2.c** "Start-up" shall be defined as the time necessary to bring a turbine on line from a no load condition to dry low NO_x combustion mode during natural gas combustion or fully activated water injection during fuel oil combustion, not to exceed thirty (30) minutes . Shutdown periods shall not exceed thirty (30) minutes.
- 2.d** The minimum stack height for this emissions unit shall be at least 88 feet above the ground.
- 2.e** "Full load" shall be defined as all periods when the hourly average electrical output exceeds 72 MW.

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- 2.f** In lieu of monitoring the exhaust stack gas flowrate as required by 40 CFR Part 60, Appendix B - Performance Specification 6, the permittee shall use a certified NOx continuous emissions monitoring system in conjunction with a fuel flow monitor as described in 40 CFR Part 75, and certified CO continuous emissions monitoring system in conjunction with a fuel flow monitor (in a manner similar to

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that used for NOx) to meet these requirements. The relative accuracy requirements of Performance Specifications 6 shall apply to the NOx and CO continuous emissions monitoring systems.

- 2.g** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

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.

II. Operational Restrictions

1. The sulfur content of the number two fuel oil fired in this emissions unit shall not exceed 0.05% , by weight.
2. The permittee shall be prohibited from combusting fuel oil in this emissions unit from April 1 through September 30 of each year, except for one-half hour of each month or under emergency conditions when natural gas supplies are not available. This exclusion is permitted contingent upon the submittal to the Regional Air Pollution Control Agency of adequate documentation from the permittee that natural gas was not available.
3. The maximum number two fuel oil usage in this emissions unit shall not exceed 8,580,000 gallons, per rolling, 12-month period.
4. The maximum natural gas usage in this emissions unit shall not exceed 2,580,000,000 cubic feet, per rolling, 12-month period.
5. In lieu of complying with the natural gas usage restriction specified above, the permittee may combust an additional 150 cubic feet of natural gas in this emissions unit for each gallon of number two fuel oil which is not combusted by this emissions unit. Under no circumstance shall the natural gas consumption exceed 3,870,000,000 cubic feet, per rolling, 12-month period.

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- 6 . The permittee shall burn only pipeline quality natural gas or number two fuel oil in this emissions unit.

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1. Continuous SO₂ Emissions Monitoring :
 - a. The permittee shall either operate and maintain equipment to continuously monitor and record SO₂ emissions from this emissions unit (SO₂ pollutant concentration and flow monitor), in units of the applicable standard(s) or meet the requirements of 40 CFR Part 75 Appendix D or 40 CFR Part 75.19(c). Such continuous monitoring and recording equipment (SO₂ pollutant concentration and flow monitor) shall comply with the requirements specified in 40 CFR part 60 and 40 CFR Part 75.
 - b. If used, each continuous monitoring system (SO₂ pollutant concentration and flow monitor) consists of all the equipment used to acquire and record data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.
 - c. If used, the permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous SO₂ monitoring system (SO₂ pollutant concentration and flow monitor) has been certified in accordance with the applicable requirements specified in 40 CFR Part 60 and Part 75. The letter of certification shall be made available to the Director upon request.
 - d. If used, the permittee shall maintain records of the following data obtained by the continuous SO₂ monitoring system (SO₂ pollutant concentration and flow monitor): emissions of SO₂ in parts per million, emissions of SO₂ in lb/MMBTU in the appropriate averaging period (e.g., hourly) , results of quarterly cylinder gas audits, linearity check, or relative accuracy test audits , and magnitude of manual calibration adjustments.
 - e. The permittee shall develop a written quality assurance/quality control plan for the continuous SO₂ monitoring system (SO₂ pollutant concentration and flow monitor) or accepted system designed to ensure continuous valid and representative readings of SO₂ emissions in units of the applicable standard(s). The plan shall follow the applicable requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous SO₂ monitoring system must be kept on site and available for inspection during regular office hours.

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- f. The permittee may conduct the relative accuracy test audits for the continuous SO₂ monitoring system (SO₂ pollutant concentration and flow monitor) 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

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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.

- g. Whenever the monitoring system or accepted 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.
2. Continuous NO_x Emissions Monitoring :
 - a. The permittee shall operate and maintain equipment to continuously monitor and record NO_x emissions from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the applicable requirements specified in 40 CFR Part 60 and Part 75.
 - b. Each continuous monitoring system consists of all the equipment used to acquire and record data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.
 - c. The permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous NO_x monitoring system has been certified in accordance with the applicable requirements specified in 40 CFR Part 60 and Part 75. The letter of certification shall be made available to the Director upon request.
 - d. The permittee shall maintain records of the following data obtained by the continuous NO_x monitoring system: emissions of NO_x in ppmvd at 15% oxygen at full load, emissions of NO_x in lbs/hr , and results of daily zero/span calibration checks, results of quarterly cylinder gas audits, linearity check, or relative accuracy test audits, and magnitude of manual calibration adjustments.
 - e. The permittee shall develop a written quality assurance/quality control plan for the continuous NO_x monitoring system designed to ensure continuous valid and representative readings of NO_x emissions in units of the applicable standard(s). The plan shall follow the applicable requirements of 40 CFR Part 60, Appendix F and 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous NO_x monitoring system must be kept on site and available for inspection during regular office hours.

- f. 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. Cylinder gas audits may be conducted in accordance with the frequencies specified in 40 CFR Part 75, Appendix B for linearity checks. 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.
 - g. 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.
 3. Continuous CO Emissions Monitoring :
 - a. The permittee shall operate and maintain equipment to continuously monitor and record CO emissions from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.
 - b. Each continuous monitoring system consists of all the equipment used to acquire and record data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.
 - c. The permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous CO monitoring system has been certified in accordance with 40 CFR Part 60. The letter of certification shall be made available to the Director upon request.
 - d. The permittee shall maintain records of the following data obtained by the continuous CO monitoring system: emissions of CO in lbs/hr , 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.
 - e. The permittee shall develop a written quality assurance/quality control plan for the continuous CO monitoring system designed to ensure continuous valid and representative readings of CO emissions in units of the applicable standard(s). The plan shall follow the applicable requirements fo 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook documenting the

activities related to the continuous CO monitoring system must be kept on site and available for inspection during regular office hours.

- f. The permittee may conduct the relative accuracy test audits for the continuous carbon monoxide 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. Cylinder gas audits may be conducted in accordance with the frequencies specified in 40 CFR Part 75, Appendix B for linearity checks. 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.
4. The permittee shall maintain hourly records of the total actual heat input values for this emissions unit, in MMBtu/hr. The total actual heat input values shall be determined using the applicable procedures specified in 40 CFR Part 75, Appendix F, Section 5.2.
 5. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The amount of number two fuel oil burned, in gallons.
 - b. The rolling, 12-month number two fuel oil usage rate, in gallons.
 - c. The amount of natural gas burned, in million cubic feet (MMCF).
 - d. The rolling, 12-month natural gas usage rate, in MMCF .
 - e. The rolling, 12-month NO_x emission rate, in tons.
 - f. The rolling, 12-month CO emission rate, in tons .
 - g. The rolling, 12-month SO₂ emission rate, in tons.
 - h. The number of hours the emissions unit is in operation when combusting natural gas.
 - i. The number of hours the emissions unit is in operation when combusting number two fuel oil.
 - j. The monthly formaldehyde emissions, in tons, determined as follows:
 - i. When burning natural gas, multiply the emission factor of 0.00071 lb formaldehyde/MMBtu (AP-42, Table 3.1-3, revised 4/00) by the monthly

amount of natural gas burned, from Section A.III.5.c, and by the average heat content of natural gas, 1020 Btu/CF, and then divided by 2,000 lbs/ton.

- ii. When burning number two fuel oil, multiply the emission factor of 0.00028 lb formaldehyde/MMBtu (AP-42, Table 3.1-4, revised 4/00) by the monthly amount of number two fuel oil burned, from Section A.III.5.a, and by the average heat content of number two fuel oil, 139 MMBtu/1000 gallon, and then divided by 2,000 lbs/ton.
 - iii. Add i + ii.
 - k. The rolling, 12-month formaldehyde emission rate, in tons.
6. The permittee shall maintain monthly records of the following information for this emissions unit::
 - a. The date, time and duration, in minutes, of each start-up and shutdown . (The terms start-up and shutdown are defined in Section A.I.2.c.)
 7. The permittee shall monitor and record all periods of time when the unit is operated at "full load" conditions, based upon the definition of full load in Section A.I.2.e..
 8. In accordance with 40 CFR Part 60, Subpart GG, Section 60.334(h)(1) , the permittee shall monitor the sulfur content of the fuel being fired in the turbine except as provided in 40 CFR 60.334(h)(3). The frequency of determination of this value shall be in accordance with 40 CFR 60.334(i).
 9. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO₂ emission rate (in lb/MMBtu)..
 10. Pursuant to 40 CFR 60.334(i)(1) or (3), the permittee shall determine fuel sulfur content in accordance with the requirements of 40 CFR 60.335(b)(10)(i) and 60.335(b)(10)(ii) .
 11. For each day during which the permittee burns a fuel other than pipeline quality natural gas or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
 12. If the permittee uses 40 CFR Part 75 Appendix D to comply with the SO₂ emissions limit, the permittee shall operate and maintain equipment to continuously monitor and record the actual fuel flow to this emissions unit when the emissions unit is in

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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.

13. 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. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75. 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.
14. The permittee shall maintain monthly records of the following information for emissions units B001, B002, and B003, combined:
 - a. The formaldehyde emission rate, in tons (sum the formaldehyde emission rate for emissions units B001, B002, and B003, combined).
 - b. The CO emission rate, in tons (sum the CO emission rate for emissions units B001, B002, and B003, combined).
 - c. The rolling, 12-month formaldehyde emission rate, in tons.
 - d. The rolling, 12-month CO emission rate, in tons.

IV. Reporting Requirements

1. Continuous SO₂ Emissions Reporting :
 - a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of SO₂ values in excess of the applicable emission limitations specified in the terms and conditions of this permit . These reports shall also contain the total SO₂ emissions for the calendar quarter (in tons).
 - b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting any continuous SO₂ monitoring system downtime while the emissions unit was on

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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.

- c. If there are no excess SO₂ 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 malfunction. 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. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

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2. Continuous NO_x Emissions Reporting :
 - a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NO_x values in excess of the applicable emission limitations specified in the terms and conditions of this permit . These reports shall also contain the total NO_x emissions for the calendar quarter (in tons).
 - b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting any continuous NO_x 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.
 - c. If there are no excess NO_x 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 malfunction. 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. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.
3. Continuous CO Emissions Reporting :
 - a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of CO values in excess of the applicable emission limitations specified in the terms and conditions of this permit .
 - b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting any

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continuous CO 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.

- c. If there are no CO 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 malfunction. 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. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.
4. The permittee shall submit quarterly deviation (excursion) reports to the Regional Air Pollution Control Agency that identify any exceedances of the following information :
 - a. The rolling, 12-month usage limitation for number two fuel oil of 8,580,000 gallons (for this emissions unit).
 - b. The rolling, 12-month usage limitation for natural gas of 2,580 MMCF (for this emissions unit).
 - c. The rolling, 12-month NO_x emission limitation of 110 tons (for this emissions unit).
 - d. The rolling, 12-month CO emission limitation of 160.8 tons, for this emissions unit.
 - e. The rolling, 12-month CO emission limitation of 160.8 tons, for emissions units B001, B002, and B003, combined.
 - f. The rolling, 12-month SO₂ emission limitation of 30.86 tons, for this emissions unit.
 - g. All time periods during which the duration for all start-up and/or shutdown periods did not comply with the requirements established in Section A.III.2.c of

this permit.

- h. For the number 2 fuel oil, any exceedances of the 0.05%, by weight, sulfur content and the calculated SO₂ emissions rate, in lb/MMBtu.
- i. Any time during which the permittee burns a fuel other than pipeline quality natural gas or number two fuel oil.
- j. The rolling, 12-month formaldehyde emission limitation of 4.20 tons, for emissions units B001, B002, and B003, combined.

These reports shall be submitted in accordance with the General Terms and Conditions of this permit.

These reports shall be submitted in accordance with the General Terms and Conditions.

- 5. The permittee shall submit quarterly reports which identify each period during which an exemption for ice-fog provided in 40 CFR Part 60.332(f) is in effect. The reports shall include the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time when the air pollution control system was reactivated. These reports shall be postmarked by April 30, July 30, October 30, and January 30 and each report shall cover the previous calendar quarter.

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:

- a. Emission Limitations-
8 lbs/hr particulate/PM₁₀ emissions and 0.0072 lb/MMBtu actual heat input particulate/PM₁₀ emissions, when firing natural gas

15 lbs/hr particulate/PM₁₀ emissions and 0.013 lb/MMBtu actual heat input particulate/PM₁₀ emissions, when firing number two fuel oil .

Applicable Compliance Method-

When combusting natural gas, compliance with the allowable lb/MMBtu particulate/PM₁₀ emission limitation above may be based on the AP-42, Table 3.1-2a (revised 4/00) emission factor of 0.0019 lb/MMBtu. Compliance with the allowable lb/hr particulate/PM₁₀ emission limitation above may be based on the AP-42, Table 3.1-2a (revised 4/00) emission factor of 0.0019 lb/MMBtu

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multiplied by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

When combusting number two fuel oil, compliance with the allowable lb/MMBtu particulate/PM10 emission limitation specified above shall be based upon an emission factor of 0.0062 lb/MMBtu.* Compliance with the hourly allowable particulate/PM10 emission limitation specified above may be based upon the emission factor of 0.0062 lb/MMBtu multiplied by the emissions unit's maximum rated heat input capacity (1115 MMBtu/hr).

If required, the permittee shall demonstrate compliance with the allowable particulate/PM10 emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

*This emissions factor was established based upon emission data from the initial compliance demonstration conducted for this emissions unit on May 10, 1995.

- b. Emission Limitation-
15.5 TPY particulate/PM10 emissions.

Applicable Compliance Method-
Compliance with the annual allowable particulate/PM10 emissions limitation may be determined as follows:

- i. When combusting number two fuel oil, multiply the lbs/hr particulate/PM10 emissions, from Section A.V.1.a. above, by the annual number of hours of operation when combusting number two fuel oil (summation of the monthly values from Section A.III.5 for the calendar year), and then divide by 2000 lbs/ton.
 - ii. When combusting natural gas, multiply the manufacturer-supplied emission factor of 0.0072 lb/MMBtu by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr), and then multiply the result by the annual number of hours of operation when combusting natural gas (summation of the monthly values from Section A.III.5 for the calendar year), and then divide by 2000 lbs/ton.
 - iii. Add i + ii.
- c. Emission Limitations-
62 lbs/hr NO_x emissions, when firing natural gas.

195 lbs/hr NO_x emissions, when firing number two fuel oil.

Applicable Compliance Method-

Compliance with the hourly allowable NO_x emission limitations above shall be based on the use of the CEM specified in A.III.2. and the applicable 40 CFR Part 60 and 75 requirements . Emissions calculated using the 40 CFR Part 75 bias adjustment factor or using missing data procedures due to monitor downtime shall not be used to determine compliance with the hourly emission limitation.

If required, compliance with the allowable NO_x emission limitations above , shall be determined based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Reference Methods 1 - 4 and Method 7 or 7E, using an arithmetic average of three (3) one-hour test runs.

d. Emission Limitations-

15 ppmvd NO_x emissions at 15% oxygen, at full load, when firing natural gas.

42 ppmvd NO_x emissions at 15% oxygen, at full load, when firing number two fuel oil.

Applicable Compliance Method-

Compliance with the allowable NO_x emission limitations above shall be based on the use of the CEM specified in A.III.2. and the applicable 40 CFR Part 60 and 75 requirements .

If required, compliance with the hourly allowable NO_x emission limitations above, shall be determined based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Reference Methods 1 - 4 and Method 7 or 7E, using an arithmetic average of three (3) one-hour test runs.

e. Emission Limitation-

110 TPY NO_x emissions, as a rolling, 12-month period .

Applicable Compliance Method-

Compliance with the annual allowable NO_x emission limitation above shall be based upon the record keeping requirements established in Sections A.III.2. and A.III.5 of this permit.

f. Emission Limitations-

301 lbs/hr CO emissions at all operating loads, excluding start-up and shutdown periods when firing natural gas

413 lbs/hr CO emissions during start-up and shutdown periods, when firing natural gas

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800 lbs/hr CO emissions, when firing number two fuel oil.

Applicable Compliance Method-

Compliance with the hourly allowable CO emission limitations above shall be based upon the data from the continuous CO emissions monitoring system requirement and the monitoring and record keeping requirements specified in Sections A.III.3 and A.III.6 of this permit . Emissions calculated using missing data procedures due to monitor downtime shall not be used to determine compliance with the hourly emission limitation

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitations through stack testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

- g. Emission Limitation-
160.8 TPY CO emissions, as a rolling, 12-month period (for this emissions unit).

Applicable Compliance Method-

Compliance with the annual allowable CO emission limitation above shall be based upon the use of CEM as specified in Section A.III.3 of this permit and the record keeping requirements specified in Section A.III.5 of this permit, .

- h. Emission Limitation-
160.8 TPY CO emissions from emissions units B001, B002, and B003, combined , as a rolling, 12-month period .

Applicable Compliance Method-

Compliance with the annual allowable CO emission limitation above shall be based upon the use of CEM as specified in Section A.III.3 of this permit and the record keeping requirements specified in Sections A.III.5 and A.III.14 of this permit, .

- i. Emission Limitation-
10.0 lbs/hr VOC emissions

Applicable Compliance Method-

When combusting natural gas, compliance with the hourly allowable VOC emission limitation shall be based on multiplying the emission factor of 0.004 lb VOC/MMBtu* by the maximum rated heat input capacity of the emissions unit

(1115 MMBtu/hr).

When combusting number 2 fuel oil, compliance with the hourly allowable VOC emission limitation shall be based on multiplying the emission factor of 0.003 lb VOC/MMBtu *by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

* established based upon emission data from the initial compliance demonstration conducted for this emissions unit on May 10, 1995

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

j. Emission Limitation-
15.0 TPY VOC emissions

Compliance with the annual allowable VOC emission limitation may be determined as follows:

- i. When combusting number two fuel oil, multiply the 0.003 lb VOC/MMBtu emission factor by the monthly amount of number two fuel oil burned, from section A.III.5.a, and by the average heat content of number two fuel oil (139 MMBtu/1000 gallon), and then divide by 2000 lbs/ton.
- ii. When combusting natural gas, multiply the 0.004 lb VOC/MMBtu emission factor by the monthly amount of natural gas burned, from section A.III.5.c, and by the average heat content of natural gas (1020 Btu/CF), and then divide by 2000 lbs/ton.
- iii. Add i + ii, and then sum the monthly VOC emission rates for the calendar year.

k. Emission Limitation-
0.0006 lb SO₂ emissions/MMBtu actual heat input, when firing natural gas
0.055 lb SO₂ emissions/MMBtu actual heat input, when firing number two fuel oil

Applicable Compliance Method -

When firing natural gas, compliance with the allowable SO₂ emission limitation above will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, the permittee shall perform or require the supplier to perform an

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analysis of the natural gas for sulfur content, in accordance with the appropriate ASTM method (such as, ASTM method D3031), or an equivalent method as approved by the Director, in order to demonstrate compliance with this emission limitation using the appropriate equation specified in AP-42 Table 3.1-2a (4/00).

When firing number two fuel oil, compliance with the allowable SO₂ emission limitation above shall be based upon the fuel analysis and the record keeping requirements specified in Sections A.III.1, A.III.8 and A.III.9, and the use of the equations specified in OAC rule 3745-18-04(F).

If required, the permittee shall demonstrate with the allowable SO₂ emission limitations above through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6C.

- I. Emission Limitation-
30.86 TPY SO₂ emissions

Applicable Compliance Method-

Compliance shall be based upon the records required pursuant to Sections A.III.1, A.III.4, and A.III.5, and shall be the summation of the 12 monthly SO₂ emission rates for the calendar year, divided by 2000 lbs/ton.

- m. Emission Limitation-
4.20 TPY formaldehyde emissions from emissions units B001, B002, and B003 combined, as a rolling, 12-month period.

Applicable Compliance Method-

Compliance with the annual allowable formaldehyde emission limitation above shall be based upon the record keeping requirements specified in Sections A.III.5 and A.III.14 of this permit.

- n . Emission Limitation-
Visible PE shall not exceed 10% opacity, as a 6-minute average, except for cold start-up and shutdown periods.

Applicable Compliance Method-

Compliance shall be determined through visible emissions observations performed in accordance with the methods and procedures specified in USEPA Reference Method 9 of 40 CFR Part 60, Appendix A.

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VI. Miscellaneous Requirements

1. The quality assurance/quality control plan for the continuous nitrogen oxides and sulfur dioxide monitoring systems, required pursuant to 40 CFR Part 75, Appendix B, must be made available during scheduled inspections and upon request by the Ohio EPA and/or Regional Air Pollution Control Agency.
2. * This is an administrative modification to PTI 08-04380 and represents no change in emissions.

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
B003 - 80 MW (1115 mmBtu/hr heat input) natural gas or fuel oil fired simple cycle turbine with water injection and dry low NO _x (DLN) combustor controls, CT-3	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

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VI. Miscellaneous Requirements

None