



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
50 West Town Street, Suite 700
Columbus, OH 43215

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

Mailing Address:

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

**RE: FINAL PERMIT TO INSTALL
HAMILTON COUNTY
Application No: 14-05950
Fac ID: 1431070849**

CERTIFIED MAIL

	TOXIC REVIEW
	PSD
Y	SYNTHETIC MINOR
Y	CEMS
Subpart YYYY	MACT
Subparts Dc and GG	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

DATE: 6/12/2008

University of Cincinnati
Jan-Arthur Utrecht
210181
Cincinnati, OH 45221-0181

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

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.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

Sincerely,

Michael W. Ahern

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

CC: USEPA

HCDES



Permit To Install
Terms and Conditions

Issue Date: 6/12/2008
Effective Date: 6/12/2008

FINAL PERMIT TO INSTALL 14-05950

Application Number: 14-05950
Facility ID: 1431070849
Permit Fee: **\$300**
Name of Facility: University of Cincinnati
Person to Contact: Jan-Arthur Utrecht
Address: 210181
Cincinnati, OH 45221-0181

Location of proposed air contaminant source(s) [emissions unit(s)]:
**3001 Vine Street
Cincinnati, Ohio**

Description of proposed emissions unit(s):
Request to modify PTI 14-05108 for emissions units P003 and P004, Combined Cycle Gas Turbines, to increase allowable CO and OC emissions.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit 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 emissions unit(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 and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director

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

4. Title IV Provisions

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

5. Severability Clause

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

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and 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 permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. 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.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

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

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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University of Cincinnati

PTI Application: 14-05950

Issued: 6/12/2008

Facility ID:

1431070849

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.

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

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 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>
PE/PM10	14.0
SO2	3.3
NOx	183.0
CO	85.7
VOC	6.7

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

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

The following emissions units contained in this permit are subject to MACT Subpart YYYY: P003 and P004. The complete MACT requirements, including the MACT General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District office or local air agency.

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

None

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.

Operations, Property, and/or Equipment - (P003) - 13.5 MW Natural Gas/ No. 2 Fuel Oil fired Turbines with 98.5 MMBtu/hr duct burner

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC Rule 3745-31-05(A)(3)	See terms and conditions A.I.2.e and A.I.2.g through A.I.2.n. EMISSION LIMITS DURING NORMAL OPERATION WITHOUT DUCT BURNER FIRING: Particulate matter (PM) emissions shall not exceed 1.08 lbs/hr; Sulfur dioxide (SO ₂) emissions shall not exceed 0.10 lb/hr; Organic compounds (OC) emissions shall not exceed 0.56 lb/hr; and Carbon monoxide (CO) emissions shall not exceed 1.97 lbs/hr. EMISSION LIMITS DURING NORMAL OPERATION WITH DUCT BURNER FIRING: Particulate matter (PM) emissions shall not exceed 2.07 lbs/hr; Sulfur dioxide (SO ₂) emissions shall not exceed 0.16 lb/hr; Organic compounds (OC) emissions shall not exceed 0.78 lb/hr; and Carbon monoxide (CO) emissions shall not exceed 2.84 lbs/hr.
	EMISSION LIMITS DURING BACKUP OPERATION:

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	<p>Particulate matter (PM) emissions shall not exceed 1.79 lbs/hr;</p> <p>Sulfur dioxide (SO₂) emissions shall not exceed 7.54 lbs/hr;</p> <p>Organic compounds (OC) emissions shall not exceed 0.55 lbs/hr; and</p> <p>Carbon monoxide (CO) emissions shall not exceed 1.92 lbs/hr.</p> <p>The requirements of this rule include compliance with the requirements of OAC rule 3745-31-10 through 3745-31-20, OAC rule 3745-31-05(C), 40 CFR Part 60, Subpart GG and 40 CFR Part 60, Subpart Dc.</p>
<p>OAC rule 3745-31-10 through 3745-31-20.</p>	<p>EMISSION LIMITS DURING NORMAL OPERATION WITHOUT DUCT BURNER FIRING:</p> <p>Nitrogen oxides (NO_x) emissions shall not exceed 25 ppmvd at 15% oxygen and 14.71 lbs/hr; and</p> <p>PM10 emissions shall not exceed 0.0073 lb/mmBtu and 1.08 lbs/hr.</p> <p>EMISSION LIMITS DURING NORMAL OPERATION WITH DUCT BURNER FIRING:</p> <p>Nitrogen oxides (NO_x) emissions shall not exceed 0.10 lb/mmBtu and 24.56 lbs/hr; and</p> <p>PM10 emissions shall not exceed 0.0084 lb/mmBtu and 2.07 lbs/hr.</p> <p>EMISSION LIMITS DURING BACKUP OPERATION:</p> <p>Nitrogen oxides (NO_x) emissions shall not exceed 96 ppmvd at 15% oxygen and 54.91 lbs/hr; and</p> <p>PM10 emissions shall not exceed 0.013 lb/mmBtu and 1.79 lbs/hr.</p> <p>EMISSIONS FROM THE TURBINES AND DUCT BURNERS FOR EMISSIONS UNITS P003 AND P004 COMBINED, AT ALL LOAD CONDITIONS, INCLUDING STARTUP/SHUTDOWN AND NORMAL AND BACKUP OPERATION:</p>

	<p>Nitrogen oxides (NO_x) emissions shall not exceed 183.0 TPY*; PM10 emissions shall not exceed 14.0TPY*; and Benzene emissions shall not exceed 0.0026 TPY*.</p>
OAC rule 3745-31-05(C)	<p>EMISSIONS FROM THE TURBINES AND DUCT BURNERS FOR EMISSIONS UNITS P003 AND P004 COMBINED, AT ALL LOAD CONDITIONS, INCLUDING STARTUP/SHUTDOWN AND NORMAL AND BACKUP OPERATION:</p> <p>Particulate matter (PM) emissions shall not exceed 14.0 TPY*; Sulfur dioxide (SO₂) emissions shall not exceed 3.3 TPY*; Organic compounds (OC) emissions shall not exceed 6.7 TPY*; and Carbon monoxide (CO) emissions shall not exceed 85.7 TPY*.</p>
40 CFR 60, Subpart GG	See terms A.I.2.a, A.III.13 and A.III.14.
40 CFR 60, Subpart Dc	See term A.III.16.
OAC rule 3745-21-08(B)	See term A.I.2.n.
OAC rule 3745-18-06(F)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)(4)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
40 CFR Part 75	See term A.I.2.b.
OAC rule 3745-103	See term A.I.2.b.
<p>40 CFR Part 63, Subpart YYYY (40 CFR Part 63.6080-6175)</p> <p>[In accordance with 40 CFR 63.6090(a) and (a)(1), this emissions unit is an existing</p>	<p>Pursuant to 40 CFR Part 63.6090(b)(4) existing stationary combustion turbines in all subcategories do not have to meet the requirements of 40 CFR Part 63, Subpart YYYY and of Subpart A. No initial notification is necessary for any existing stationary combustion turbine, even if a new or reconstructed turbine in the same category would require an initial notification.</p>

stationary combustion turbine due to commence construction occurred on or before January 14, 2003 located at a major source of hazardous air pollutants (HAPs).]	
	* Based on a rolling, 12-month summation
	Assume PM = PM10

2. Additional Terms and Conditions

- 2.a** The emissions limits based on this applicable rule are equivalent to or less stringent than the limits established pursuant to OAC rule 3745-31-05(A)(3) and OAC rule 3745-31-10 through 3745-31-20. Except as provided for in the terms and conditions in this permit, the permittee is not exempt from meeting any additional requirements of 40 CFR Part 60, Subpart GG.
- 2.b** If the permittee is subject to the requirements of 40 CFR Part 72 and 75 concerning acid rain, the permittee shall ensure that any effected 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.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of dry low NOx burners (SoLoNox technology) with a 25.0 ppm NOx emission limit during normal operation, a catalytic oxidizer to control CO and VOC emissions at a CO design destruction efficiency of at least 89 percent by weight, and limited usage of diesel fuel in the turbine and natural gas in the duct burner.
- 2.d** The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
- 2.e** Visible particulate emissions from any stack shall not exceed 10 percent opacity, as a six-minute average except during periods of malfunction as provided in OAC rule 3745-17-07(A)(3)(c).
- 2.f** The hourly emission limitation(s) for PM, PM10, SO2 and VOC outlined in term A.I.1 are based upon the emissions unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.

- 2.g "Normal Operation" shall be defined as the period when the combustion turbine achieves dry low NO_x (SoLoNox) mode, burning natural gas at steady state operation, between an electrical output of 7.25 megawatts and full load.
- 2.h "Backup Operation" shall be defined as the period when the combustion turbine achieves dry low NO_x (SoLoNox) mode, burning diesel fuel at steady state operation, between an electrical output of 9.43 megawatts and full load. Duct burners shall not operate during periods of backup operation.
- 2.i "Full Load" shall be defined as a load equal to the maximum actual electrical output of 13.5 megawatts (depending on the ambient temperature and relative humidity).
- 2.j "Startup" shall be defined as the period between initial fuel light-off in the combustion turbine until the combustion turbine reaches normal or backup operations.
- 2.k "Shutdown" shall be defined as the period beginning when the combustion turbine leaves normal or backup operations until combustion has ceased.
- 2.l When burning natural gas, during startup/shutdown cycle, the following emission limits shall not be exceeded for this emission unit:

NO_x = 30.0 lbs/ startup/shutdown cycle; and
CO = 275 lbs/ startup/shutdown cycle.
- 2.m When burning diesel fuel, during startup/shutdown cycle, the following emission limits shall not be exceeded for this emission unit:

NO_x = 72.0 lbs/ startup/shutdown cycle; and
CO = 275 lbs/ startup/shutdown cycle.
- 2.n The permittee shall satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

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. On June 24, 2003, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision 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 permittee shall only burn natural gas in the duct burner portion of this emissions unit, and except as allowed in term A.II.3 of this permit, the permittee shall only burn natural gas in the combustion turbine portion of this emission unit. The maximum sulfur content of natural gas shall not exceed 2 grains per 100 standard cubic feet.
2. The sulfur content of the diesel fuel used in this combustion turbine shall not exceed 0.05 percent by weight.
3. The maximum annual operating hours while burning diesel fuel in the combustion turbines for emissions units P003 and P004 combined shall not exceed 576 hours, based upon a rolling, 12-month summation of the operating hours.

The permittee has existing records to demonstrate compliance with the limitations in term A.II.3 upon permit issuance.

4. The maximum annual natural gas usage for the duct burners of emissions units P003 and P004 combined shall not exceed 1000 million standard cubic feet, based upon a rolling, 12-month summation of the natural gas usage figures.

The permittee has existing records to demonstrate compliance with the limitations in term A.II.4 upon permit issuance.

5. Duct burners shall not operate during backup mode operation.
6. The number of startup/shutdown cycles per year shall not exceed 480 cycles for emissions units P003 and P004 combined.
7. A startup/shutdown cycle shall not exceed a maximum total duration of 60 minutes.
8. The maximum annual heat input rate to the combustion turbines of emissions units P003 and P004 combined shall not exceed 2,354,400 mmBtu, based upon a rolling, 12-month summation of the fuel usage figures. The permittee has records to demonstrate compliance with this limitation upon issuance of this permit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain daily records of the following information:
 - a. the emissions unit's actual electrical output for each operating hour; and
 - b. for each day during which the permittee burns a fuel other than natural gas and/or diesel fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

2. The permittee shall maintain monthly records of the following information for emissions units P003 and P004, combined :
 - a. The natural gas usage rate in the combustion turbines for each month (in standard cubic feet).
 - b. The natural gas usage rate in the duct burners for each month (in standard cubic feet).
 - c. The diesel fuel usage rate in the combustion turbines for each month (in gallons).
 - d. The hours of operation of the combustion turbines.
 - e. The hours of operation of the duct burners and the fuel used during those hours of operation.
 - f. The hours of operation of the combustion turbines while burning diesel fuel.
 - g. The number of startup/shutdown cycles for each month.
 - h. The rolling, 12-month summation of the hours of operation of the combustion turbines while burning diesel fuel.
 - i. The rolling, 12-month summation of the natural gas usage rate in the duct burner.
 - j. The monthly emission rate for NO_x, CO, SO₂, PM/PM₁₀ and VOC, in tons.
 - k. The rolling, 12-month summation of NO_x, CO, SO₂, PM/PM₁₀ and VOC, in tons.
 - l. The rolling, 12-month summation of the actual heat input rate of the combustion turbine.

3. The permittee shall maintain monthly records of the following information for this emissions unit in order to monitor compliance with the startup and shutdown emission limitations and operational restrictions:
 - a. the date and duration, in minutes, of each startup and shutdown cycle;
 - b. the emissions, in pounds, for NO_x and CO when burning natural gas for each startup and shutdown cycle; and
 - c. the emissions, in pounds, for NO_x and CO when burning diesel fuel for each startup and shutdown cycle.

The permittee shall use the continuous NO_x and CO emissions monitoring data to determine the NO_x and CO emissions for these emissions units. During any period when the NO_x and/or the CO emissions monitoring systems are not operational, the permittee shall use the appropriate missing data procedures specified in 40 CFR Part 75 to determine NO_x and CO (although 40 CFR Part 75 pertains mainly to determining NO_x and SO₂ emissions and not to determining CO emissions, the permittee may use the same procedures allowed in 40 CFR Part 75 to determine NO_x emissions to determine CO emissions) emissions or an approved data substitution protocol. The data substitution values shall not be used to demonstrate compliance with the hourly NO_x and CO emission limitations applicable during normal or backup operation of this emissions unit.

4. For each shipment of diesel fuel received for burning in this emissions unit, the permittee shall maintain records of the total quantity of diesel fuel received, the permittee's or diesel fuel supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)]. A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the diesel fuel for those loads may be represented by a single batch analysis from the supplier.

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

5. Continuous NO_x Monitoring - Certified Systems
Statement of Certification

Prior to the installation of the continuous NO_x monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 6 or 40 CFR Part 75 (The permittee may use 40 CFR Part 75 continuous emissions monitoring systems (CEMS) methodology using fuel flow monitors in conjunction with CEMS data to determine NO_x mass emissions if it is done in accordance with the provisions listed 40 CFR Part 75) for approval by the Ohio EPA, Central Office.

Within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit, the permittee shall conduct certification tests of such equipment pursuant to the appropriate sections of ORC section 3704.03(I), 40 CFR Part 60, Appendix B, Performance Specification 2 and Performance Specification 6 or 40 CFR Part 75 if low mass emission criteria described in 40 CFR Part 75 have been met. When 40 CFR Part 75 CEMS methodology using fuel flow monitors in conjunction with CEMS data to

determine mass emissions, the Relative Accuracy requirements of 40 CFR Part 60, Performance Specification 6 are still required to be met, although other requirements from this performance specification may not be required. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the appropriate Ohio EPA District Office or local air agency and the Ohio EPA, Central Office. Certification of the continuous NO_x monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of the appropriate sections of ORC section 3704.03(I), 40 CFR Part 60, Appendix B, Performance Specification 2, Performance Specification 6, and 40 CFR Part 75 where applicable.

Within 180 days of the effective date of this permit, 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. The plan shall follow the requirements of the appropriate sections of 40 CFR Part 60, Appendix F and 40 CFR Part 75, Appendix B, Section 1.3 for fuel flow monitors. 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.

6. The permittee shall operate and maintain existing equipment to continuously monitor and record NO_x from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements of the appropriate sections specified in 40 CFR Part 60.13. When 40 CFR Part 75 CEMS methodology using fuel flow monitors in conjunction with CEMS data for mass emissions determinations, fuel flow meters shall meet the requirements of 40 CFR Part 75, Appendix D, Sections 2.1.2 and 2.1.5.

Data necessary for mass emission calculations per 40 CFR Part 75, Appendix D shall be recorded.

The permittee shall maintain records of all data obtained by the continuous NO_x monitoring system including, but not limited to, parts per million NO_x on an instantaneous (one-minute) basis, emissions of NO_x in units of the applicable standard in the appropriate averaging period (e.g., hourly, hourly rolling, 3-hour, daily, 30-day rolling, etc.), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

During any period when the continuous NO_x emission monitoring systems are not operational, the permittee shall use the appropriate missing data procedures specified in 40 CFR Part 75 to determine the NO_x emissions.

7. Continuous CO Monitoring - Certified Systems
Statement of Certification

Prior to the installation of the continuous CO monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 6, or 40 CFR Part 75 (The permittee may use 40 CFR Part 75 CEMS methodology using fuel flow monitors in conjunction with CEMS data to determine CO mass emissions if it is done in a manner consistent with NOx mass emissions determinations as allowed in 40 CFR Part 75) for approval by the Ohio EPA, Central Office.

Within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit, the permittee shall conduct certification tests of the continuous CO monitoring system pursuant to ORC section 3704.03(I), 40 CFR Part 60, Appendix B, Performance Specification 4A and Performance Specification 6. If 40 CFR Part 75 CEMS methodology using fuel flow monitors in conjunction with CEMS data to determine mass emissions, the Relative Accuracy requirements of 40 CFR Part 60, Performance Specification 6 are still required to be met, although other requirements from this performance specification may not be required. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the appropriate Ohio EPA District Office or local air agency and the Ohio EPA, Central Office. Certification of the continuous CO monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 4A and Performance Specification 6.

Within 180 days of the effective date of this permit, 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. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous CO monitoring system must be kept on site and available for inspection during regular office hours.

8. The permittee shall operate and maintain equipment to continuously monitor and record CO from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13. When 40 CFR Part 75 CEMS methodology using fuel flow monitors in conjunction with CEMS data to determine mass emissions, fuel flow meters shall meet the requirements of 40 CFR Part 75, Appendix D, Sections 2.1.2 and 2.1.5.

Data necessary for mass emission calculations per 40 CFR Part 75, Appendix D shall be recorded. The permittee shall maintain records of all data obtained by the continuous CO monitoring system including, but not limited to, parts per million CO on an instantaneous (one minute) basis, emissions of CO in units of the applicable standard in the appropriate averaging period (e.g., hourly, hourly rolling, 3-hour, daily, 30-day rolling, annual, etc.), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

9. Continuous O₂ or CO₂ Monitoring - Certified Systems
Statement of Certification

Prior to the installation of the continuous O₂ monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 3 for approval by the Ohio EPA, Central Office.

Within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit, the permittee shall conduct certification tests of such equipment pursuant to the appropriate sections of ORC section 3704.03(I), and 40 CFR Part 60, Appendix B, Performance Specification 3. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the appropriate Ohio EPA District Office or local air agency and the Ohio EPA, Central Office. Certification of the continuous O₂ monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of the appropriate sections of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 3.

Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous O₂ monitoring system designed to ensure continuous valid and representative readings of O₂. The plan shall follow the requirements of the appropriate sections of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous O₂ monitoring system must be kept on site and available for inspection during regular office hours.

10. The permittee shall operate and maintain equipment to continuously monitor and record O₂ from this emissions unit in percent O₂. Such continuous monitoring and recording equipment shall comply with the requirements in the appropriate sections specified in 40 CFR Part 60.13

The permittee shall maintain records of all data obtained by the continuous O₂ monitoring system including, but not limited to, percent O₂ on an instantaneous (one-minute) basis, emissions of O₂ results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

11. The permittee shall maintain hourly records of the following information for this emissions unit:

in lb(s)/hr emissions rate for NO_x and CO as obtained from terms A.III.6. and A.III.8, and NOx ppmvd@15% O₂ as obtained from term A.III. 6. based upon an hourly averaging period as allowed in the appropriate sections of 40 CFR Part 60.
12. The permittee maintain records demonstrating that the natural gas fired in this emission unit meets the definition of natural gas in 40 CFR 60.331(u). The permittee shall use one of the following sources of information to make the required demonstration:
 - a. The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content if the fuel is 2.0 grains/100 scf or less; or
 - b. Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 2.0 grains/100 scf. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to 40 CFR 75 is required.
13. The permittee shall use one of the total sulfur sampling options and the associated sampling frequency as described in sections 2.2.3 of appendix D to 40 CFR 75 (i.e. flow proportional sampling, daily sampling, sampling from the unit's storage tank after each addition of fuel to the tank, or sampling each delivery prior to combining it with the fuel oil already in the intended storage tank).
14. The permittee shall maintain documentation on the sulfur contents of the fuels as required in 40 CFR 60.334(h)(3) and (i).
15. The permittee shall perform weekly checks, when this emissions unit is in operation, during daylight hours, and when weather conditions allow, for any visible particulate emissions from the stack/stacks serving this/these emissions unit(s). The presence or absence of any visible emissions shall be noted in an operation log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;

- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and,
 - e. any corrective actions taken to eliminate the visible emissions.
16. The permittee shall maintain daily records of the natural gas usage rate in the duct burner.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or diesel fuel was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurred.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation while burning diesel fuel in the combustion turbines of emissions units P003 and P004. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).
3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month actual heat input limitation to the combustion turbine; the rolling, 12-month natural gas usage limitation for the duct burners for emissions units P003 and P004. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).
4. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record that shows a deviation of the allowable sulfur dioxide limitation specified in term A.II.2. of this permit. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.
5. Pursuant to OAC rules 3745-15-04, and ORC sections 3704.03(l) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NO_x values in excess of the applicable limits specified in 40 CFR Part 76 and any limitations specified in the terms and conditions of this permit or variance. These reports shall also contain the total NO_x emissions for the calendar quarter (in tons).

The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air 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.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with 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, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall address the data obtained during the previous calendar quarter.

Pursuant to OAC rules 3745-15-04, and ORC sections 3704.03(I) and 3704.031, the permittee shall submit a summary of the excess emission reports pursuant to 40 CFR Part 60.7. The summary shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

6. Pursuant to OAC rules 3745-15-04, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any) of all instances of CO values in excess of any applicable limitation(s) specified in OAC Chapter 3745-21, 40 CFR Part 60, or any limitation(s) specified in the terms and conditions of this permit, in units of the standard. These reports shall also contain the total CO emissions for the calendar quarter (in tons).

The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air 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.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with 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, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall address the data obtained during the previous calendar quarter.

Pursuant to OAC rules 3745-15-04, and ORC sections 3704.03(I) and 3704.031, the permittee shall submit a summary of the excess emission reports pursuant to 40 CFR Part 60.7. The summary shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

7. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting all instances of continuous O₂ 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 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 be included in the quarterly report. These quarterly reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall address the data obtained during the previous calendar quarter.
8. The permittee shall submit deviation (excursion) reports that identify any record which shows that the sulfur content of the natural gas exceeded 2 grains per standard 100 cubic foot. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(2).
9. In lieu of the excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess emissions reports for emissions unit P003 in accordance with this permit.
10. The permittee shall submit semiannual written reports which (a) identify all weeks during which any visible particulate emissions were observed from the stack serving this emissions units and (b) if needed describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6 calendar month period.
11. The permittee shall submit annual reports which specify the total NO_x, SO₂, OC, PM/PM₁₀ and CO emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. The CAA, Title V Fee

Emission Report (FER) required to be submitted annually by April 15 for the facility will also satisfy the emission reporting requirement of this condition.

12. This emissions unit is subject to the applicable provisions of Subpart Dc and GG of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60. The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Hamilton County Department of Environmental Services
250 William Howard Taft Rd.
Cincinnati, Ohio 45219

13. The permittee shall submit deviation (excursion) reports which identify all exceedances of the NO_x and CO emissions limitations for each startup/shutdown cycle as specified in term and condition A.I.2.l and A.I.2.m.
14. The permittee shall submit deviation (excursion) reports which identify all exceedances of the number of startup/shutdown cycles limit in term A.II.6 or the startup/shutdown duration limit in term A.II.7.
15. Unless specified, the deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of this permit shall be determined according to the following methods:
 - a. NO_x Emission Limitations

See section A.I.1.

Applicable Compliance Method

Initial compliance with the allowable outlet concentration, and the lbs/hr emission limitations shall be demonstrated by test results from the most recent compliance demonstration, and continual compliance with those limitations shall be demonstrated by the use of the CEM in condition A.III.6 based upon an hourly averaging period. Compliance with the annual emission limitation shall be determined by the record keeping required in condition A.III.2.

b. PM Emission Limitation

See section A.I.1.

Applicable Compliance Method

Compliance with the lbs/hr emission limitations shall be demonstrated by test results from the most recent compliance demonstration. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission rate by the actual annual hours of operation and dividing by 2000 lbs/ton.

c. SO2 Emission Limitation

See section A.I.1.

Applicable Compliance Method

Compliance with the hourly emission limitation shall be determined by the record keeping required in condition A.III.2, 4, 13, and 14. If required, the permittee shall demonstrate compliance by emission testing in accordance with approved US EPA test methods. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission rate by the actual annual hours of operation and dividing by 2000 lbs/ton.

d. OC Emission Limitations

See section A.I.1.

Applicable Compliance Method

Compliance with the lbs/hr limitations shall be demonstrated by test results from the most recent compliance demonstration. Compliance with the annual

emission limitation shall be determined by multiplying the hourly emission rate by the actual annual hours of operation and dividing by 2000 lbs/ton.

e. CO Emission Limitation

See section A.I.1.

Applicable Compliance Method

Initial compliance with the lbs/hr emission limitations shall be demonstrated by test results from the most recent compliance demonstration, and continual compliance with those limitations shall be demonstrated by the use of the CEM in condition A.III.8 based upon an hourly averaging period . Compliance with the annual emission limitation shall be determined by the record keeping required in condition III.2.

f. Emission Limitation

Visible particulate emissions from any stack shall not exceed 10 percent opacity as a six-minute average.

Applicable Compliance Method

Compliance with the visible emissions limitation established by this permit shall be determined by Method 9, 40 CFR Part 60 Appendix A.

g. Benzene Emission Limitations

See section A.I.1.

Applicable Compliance Method

Compliance with the TPY emission limitation shall be demonstrated by using the AP-42 emission factors and estimated destruction efficiencies.

2. Emission Limitation:

0.05 percent sulfur by weight for the diesel fuel.

Applicable Compliance Method:

When firing diesel fuel, except as provided below, compliance with the allowable SO₂ emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of diesel fuel received during a calendar month meets the limitation.

If required, the permittee shall demonstrate compliance with this emission limitation (when firing diesel fuel) in accordance with 40 CFR, Part 60, Appendix A, Method 6C.

3. Compliance with the hours of operation limitation when burning diesel fuel in the combustion turbine shall be demonstrated by the record keeping in term A.III.2.
4. Compliance with the natural gas usage limitation for the duct burner shall be demonstrated by the record keeping in term A.III.2.
5. Compliance with the emissions limitations in terms and conditions A.I.2.l and A.I.2.m shall be demonstrated by the monitoring and record keeping required in term and condition A.III.3.
6. Compliance with the limitation in term and condition A.II.6 shall be demonstrated by the monitoring and record keeping required in term and condition A.III.2.g.
7. Compliance with the operational restriction in term and condition A.II.7 shall be demonstrated by the monitoring and record keeping required in term and condition A.III.3
8. Compliance with the annual heat input operational restriction in term and condition A.II.8 shall be demonstrated by the monitoring and record keeping required in term and condition A.III.2.l

VI. Miscellaneous Requirements

1. The terms and conditions in this Permit to Install supersede the terms and conditions with regard to emissions unit P003 and P004 in Permit to Install 14-05108 as issued on August 15, 2002, and modified on August 25, 2005 and May 15, 2007.

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.

Operations, Property, and/or Equipment - (P003) - 13.5 MW Natural Gas/ No. 2 Fuel Oil fired Turbines with 98.5 MMBtu/hr duct burner

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	See term B.VI
OAC rule 3745-110	See term A.I.2.a.

2. **Additional Terms and Conditions**

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the

emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

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.

Operations, Property, and/or Equipment - (P004) - 13.5 MW Natural Gas/ No. 2 Fuel Oil fired Turbines with 98.5 MMBtu/hr duct burner

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC Rule 3745-31-05(A)(3)	See terms and conditions A.I.2.e and A.I.2.g through A.I.2.n. EMISSION LIMITS DURING NORMAL OPERATION WITHOUT DUCT BURNER FIRING: Particulate matter (PM) emissions shall not exceed 1.08 lbs/hr; Sulfur dioxide (SO ₂) emissions shall not exceed 0.10 lb/hr; Organic compounds (OC) emissions shall not exceed 0.56 lb/hr; and Carbon monoxide (CO) emissions shall not exceed 1.97 lbs/hr. EMISSION LIMITS DURING NORMAL OPERATION WITH DUCT BURNER FIRING: Particulate matter (PM) emissions shall not exceed 2.07 lbs/hr; Sulfur dioxide (SO ₂) emissions shall not exceed 0.16 lb/hr; Organic compounds (OC) emissions shall not exceed 0.78 lb/hr; and Carbon monoxide (CO) emissions shall not exceed 2.84 lbs/hr.
	EMISSION LIMITS DURING BACKUP OPERATION:

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	<p>Particulate matter (PM) emissions shall not exceed 1.79 lbs/hr;</p> <p>Sulfur dioxide (SO₂) emissions shall not exceed 7.54 lb/hr;</p> <p>Organic compounds (OC) emissions shall not exceed 0.55 lbs/hr; and</p> <p>Carbon monoxide (CO) emissions shall not exceed 1.92 lbs/hr.</p> <p>The requirements of this rule include compliance with the requirements of OAC rule 3745-31-10 through 3745-31-20, OAC rule 3745-31-05(C), 40 CFR Part 60, Subpart GG and 40 CFR Part 60, Subpart Dc.</p>
<p>OAC rule 3745-31-10 through 3745-31-20.</p>	<p>EMISSION LIMITS DURING NORMAL OPERATION WITHOUT DUCT BURNER FIRING:</p> <p>Nitrogen oxides (NO_x) emissions shall not exceed 25 ppmvd at 15% oxygen and 14.71 lbs/hr; and</p> <p>PM10 emissions shall not exceed 0.0073 lb/mmBtu and 1.08 lbs/hr.</p> <p>EMISSION LIMITS DURING NORMAL OPERATION WITH DUCT BURNER FIRING:</p> <p>Nitrogen oxides (NO_x) emissions shall not exceed 0.10 lb/mmBtu and 24.56 lbs/hr; and</p> <p>PM10 emissions shall not exceed 0.0084 lb/mmBtu and 2.07 lbs/hr.</p> <p>EMISSION LIMITS DURING BACKUP OPERATION:</p> <p>Nitrogen oxides (NO_x) emissions shall not exceed 96 ppmvd at 15% oxygen and 54.91 lbs/hr; and</p> <p>PM10 emissions shall not exceed 0.013 lb/mmBtu and 1.79 lbs/hr.</p> <p>EMISSIONS FROM THE TURBINES AND DUCT BURNERS FOR EMISSIONS UNITS P003 AND P004 COMBINED, AT ALL LOAD CONDITIONS, INCLUDING STARTUP/SHUTDOWN, NORMAL AND BACKUP OPERATION:</p>

	<p>Nitrogen oxides (NO_x) emissions shall not exceed 183.0 TPY*; PM10 emissions shall not exceed 14.0TPY*; and Benzene emissions shall not exceed 0.0026 TPY*.</p>
OAC rule 3745-31-05(C)	<p>EMISSIONS FROM THE TURBINES AND DUCT BURNERS FOR EMISSIONS UNITS P003 AND P004 COMBINED, AT ALL LOAD CONDITIONS, INCLUDING STARTUP/SHUTDOWN, NORMAL AND BACKUP OPERATION:</p> <p>Particulate matter (PM) emissions shall not exceed 14.0 TPY*; Sulfur dioxide (SO₂) emissions shall not exceed 3.3 TPY*; Organic compounds (OC) emissions shall not exceed 6.7 TPY*; and Carbon monoxide (CO) emissions shall not exceed 85.7 TPY*.</p>
40 CFR 60, Subpart GG	See term A.I.2.a, A.III.13 and A.III.14.
40 CFR 60, Subpart Dc	See term A.III.16.
OAC rule 3745-21-08(B)	See term A.I.2.n.
OAC rule 3745-18-06(F)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)(4)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
40 CFR Part 75	See term A.I.2.b.
OAC rule 3745-103	See term A.I.2.b.
<p>40 CFR Part 63, Subpart YYYY (40 CFR Part 63.6080 -6175)</p> <p>[In accordance with 40 CFR 63.6090(a) and (a)(1), this emissions unit is an existing</p>	<p>Pursuant to 40 CFR Part 63.6090(b)(4) existing stationary combustion turbines in all subcategories do not have to meet the requirements of 40 CFR Part 63, Subpart YYYY and of Subpart A. No initial notification is necessary for any existing stationary combustion turbine, even if a new or reconstructed turbine in the same category would require an initial notification.</p>

stationary combustion turbine due to commence construction occurred on or before January 14, 2003 located at a major source of hazardous air pollutants (HAPs).]	
	* Based on a rolling, 12-month summation
	* Assume PM=PM10

2. Additional Terms and Conditions

- 2.a** The emissions limits based on this applicable rule are equivalent to or less stringent than the limits established pursuant to OAC rule 3745-31-05(A)(3) and OAC rule 3745-31-10 through 3745-31-20. Except as provided for in the terms and conditions in this permit, the permittee is not exempt from meeting any additional requirements of 40 CFR Part 60, Subpart GG.
- 2.b** If the permittee is subject to the requirements of 40 CFR Part 72 and 75 concerning acid rain, the permittee shall ensure that any effected 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.
- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of dry low NOx burners (SoLoNox technology) with a 25.0 ppm NOx emission limit during normal operation, a catalytic oxidizer to control CO and VOC emissions at a CO design destruction efficiency of at least 89 percent by weight, and limited usage of diesel fuel in the turbine and natural gas in the duct burner.
- 2.d** The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
- 2.e** Visible particulate emissions from any stack shall not exceed 10 percent opacity, as a six-minute average except during periods of malfunction as provided in OAC rule 3745-17-07(A)(3)(c).
- 2.f** The hourly emission limitation(s) for PM, PM10, SO2 and VOC outlined in term A.I.1 are based upon the emissions unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limitations.

- 2.g "Normal Operation" shall be defined as the period when the combustion turbine achieves dry low NOx (SoLoNox) mode, burning natural gas at steady state operation, between an electrical output of 7.25 megawatts and full load.
- 2.h "Backup Operation" shall be defined as the period when the combustion turbine achieves dry low NOx (SoLoNox) mode, burning diesel fuel at steady state operation, between an electrical output of 9.43 megawatts and full load. Duct burners shall not operate during periods of backup operation.
- 2.i "Full Load" shall be defined as a load equal to the maximum actual electrical output of 13.5 megawatts (depending on the ambient temperature and relative humidity).
- 2.j "Startup" shall be defined as the period between initial fuel light-off in the combustion turbine until the combustion turbine reaches normal or backup operations.
- 2.k "Shutdown" shall be defined as the period beginning when the combustion turbine leaves normal or backup operations until combustion has ceased.
- 2.l When burning natural gas, during startup/shutdown cycle, the following emission limits shall not be exceeded for this emission unit:

NOx = 30.0 lbs/ startup/shutdown cycle; and
CO = 275 lbs/ startup/shutdown cycle.
- 2.m When burning diesel fuel, during startup/shutdown cycle, the following emission limits shall not be exceeded for this emission unit:

NOx = 72.0 lbs/ startup/shutdown cycle; and
CO = 275 lbs/ startup/shutdown cycle.
- 2.n The permittee shall satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

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. On June 24, 2003, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision 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 permittee shall only burn natural gas in the duct burner portion of this emissions unit, and except as allowed in term A.II.3 of this permit, the permittee shall only burn natural gas in the combustion turbine portion of this emission unit. The maximum sulfur content of natural gas shall not exceed 2 grains per 100 standard cubic feet.
2. The sulfur content of the diesel fuel used in this combustion turbine shall not exceed 0.05 percent by weight.
3. The maximum annual operating hours while burning diesel fuel in the combustion turbines for emissions units P003 and P004 combined shall not exceed 576 hours, based upon a rolling, 12-month summation of the operating hours.

The permittee has existing records to demonstrate compliance with the limitations in term A.II.3 upon permit issuance.

4. The maximum annual natural gas usage for the duct burners of emissions units P003 and P004 combined shall not exceed 1000 million standard cubic feet, based upon a rolling, 12-month summation of the natural gas usage figures.

The permittee has existing records to demonstrate compliance with the limitations in term A.II.4 upon permit issuance.

5. Duct burners shall not operate during backup mode operation.
6. The number of startup/shutdown cycles per year shall not exceed 480 cycles for emissions units P003 and P004 combined.
7. A startup/shutdown cycle shall not exceed a maximum total duration of 60 minutes.
8. The maximum annual heat input rate to the combustion turbines of emissions units P003 and P004 combined shall not exceed 2,354,400 mmBtu, based upon a rolling, 12-month summation of the fuel usage figures. The permittee has records to demonstrate compliance with this limitation upon issuance of this permit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain daily records of the following information:
 - a. the emissions unit's actual electrical output for each operating hour; and
 - b. for each day during which the permittee burns a fuel other than natural gas and/or diesel fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

2. The permittee shall maintain monthly records of the following information for emissions units P003 and P004, combined :
 - a. The natural gas usage rate in the combustion turbines for each month (in standard cubic feet).
 - b. The natural gas usage rate in the duct burners for each month (in standard cubic feet).
 - c. The diesel fuel usage rate in the combustion turbines for each month (in gallons).
 - d. The hours of operation of the combustion turbines.
 - e. The hours of operation of the duct burners and the fuel used during those hours of operation.
 - f. The hours of operation of the combustion turbines while burning diesel fuel.
 - g. The number of startup/shutdown cycles for each month.
 - h. The rolling, 12-month summation of the hours of operation of the combustion turbines while burning diesel fuel.
 - i. The rolling, 12-month summation of the natural gas usage rate in the duct burner.
 - j. The monthly emission rate for NO_x, CO, SO₂, PM/PM₁₀ and VOC, in tons.
 - k. The rolling, 12-month summation of NO_x, CO, SO₂, PM/PM₁₀ and VOC, in tons.
 - l. The rolling, 12-month summation of the actual heat input rate of the combustion turbine.

3. The permittee shall maintain monthly records of the following information for this emissions unit in order to monitor compliance with the startup and shutdown emission limitations and operational restrictions:
 - a. the date and duration, in minutes, of each startup and shutdown cycle;
 - b. the emissions, in pounds, for NO_x and CO when burning natural gas for each startup and shutdown cycle; and
 - c. the emissions, in pounds, for NO_x and CO when burning diesel fuel for each startup and shutdown cycle.

The permittee shall use the continuous NO_x and CO emissions monitoring data to determine the NO_x and CO emissions for these emissions units. During any period when the NO_x and/or the CO emissions monitoring systems are not operational, the permittee shall use the appropriate missing data procedures specified in 40 CFR Part 75 to determine NO_x and CO (although 40 CFR Part 75 pertains mainly to determining NO_x and SO₂ emissions and not to determining CO emissions, the permittee may use the same procedures allowed in 40 CFR Part 75 to determine NO_x emissions to determine CO emissions) emissions or an approved data substitution protocol. The data substitution values shall not be used to demonstrate compliance with the hourly NO_x and CO emission limitations applicable during normal or backup operation of this emissions unit.

4. For each shipment of diesel fuel received for burning in this emissions unit, the permittee shall maintain records of the total quantity of diesel fuel received, the permittee's or diesel fuel supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)]. A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the diesel fuel for those loads may be represented by a single batch analysis from the supplier.

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

5. Continuous NO_x Monitoring - Certified Systems
Statement of Certification

Prior to the installation of the continuous NO_x monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 6 or 40 CFR Part 75 (The permittee may use 40 CFR Part 75 continuous emissions monitoring systems (CEMS) methodology using fuel flow monitors in conjunction with CEMS data to determine NO_x mass emissions if it is done in accordance with the provisions listed 40 CFR Part 75) for approval by the Ohio EPA, Central Office.

Within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit, the permittee shall conduct certification tests of such equipment pursuant to the appropriate sections of ORC section 3704.03(I), 40 CFR Part 60, Appendix B, Performance Specification 2 and Performance Specification 6 or 40 CFR Part 75 if low mass emission criteria described in 40 CFR Part 75 have been met. When 40 CFR Part 75 CEMS methodology using fuel flow monitors in conjunction with CEMS data to

determine mass emissions, the Relative Accuracy requirements of 40 CFR Part 60, Performance Specification 6 are still required to be met, although other requirements from this performance specification may not be required. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the appropriate Ohio EPA District Office or local air agency and the Ohio EPA, Central Office. Certification of the continuous NO_x monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of the appropriate sections of ORC section 3704.03(I), 40 CFR Part 60, Appendix B, Performance Specification 2, Performance Specification 6, and 40 CFR Part 75 where applicable.

Within 180 days of the effective date of this permit, 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. The plan shall follow the requirements of the appropriate sections of 40 CFR Part 60, Appendix F and 40 CFR Part 75, Appendix B, Section 1.3 for fuel flow monitors. 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.

6. The permittee shall operate and maintain existing equipment to continuously monitor and record NO_x from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements of the appropriate sections specified in 40 CFR Part 60.13. When 40 CFR Part 75 CEMS methodology using fuel flow monitors in conjunction with CEMS data for mass emissions determinations, fuel flow meters shall meet the requirements of 40 CFR Part 75, Appendix D, Sections 2.1.2 and 2.1.5.

Data necessary for mass emission calculations per 40 CFR Part 75, Appendix D shall be recorded.

The permittee shall maintain records of all data obtained by the continuous NO_x monitoring system including, but not limited to, parts per million NO_x on an instantaneous (one-minute) basis, emissions of NO_x in units of the applicable standard in the appropriate averaging period (e.g., hourly, hourly rolling, 3-hour, daily, 30-day rolling, etc.), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

During any period when the continuous NO_x emission monitoring systems are not operational, the permittee shall use the appropriate missing data procedures specified in 40 CFR Part 75 to determine the NO_x emissions.

7. Continuous CO Monitoring - Certified Systems
Statement of Certification

Prior to the installation of the continuous CO monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 6, or 40 CFR Part 75 (The permittee may use 40 CFR Part 75 CEMS methodology using fuel flow monitors in conjunction with CEMS data to determine CO mass emissions if it is done in a manner consistent with NOx mass emissions determinations as allowed in 40 CFR Part 75) for approval by the Ohio EPA, Central Office.

Within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit, the permittee shall conduct certification tests of the continuous CO monitoring system pursuant to ORC section 3704.03(I), 40 CFR Part 60, Appendix B, Performance Specification 4A and Performance Specification 6. If 40 CFR Part 75 CEMS methodology using fuel flow monitors in conjunction with CEMS data to determine mass emissions, the Relative Accuracy requirements of 40 CFR Part 60, Performance Specification 6 are still required to be met, although other requirements from this performance specification may not be required. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the appropriate Ohio EPA District Office or local air agency and the Ohio EPA, Central Office. Certification of the continuous CO monitoring system shall be granted upon determination by the Ohio EPA Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 4A and Performance Specification 6.

Within 180 days of the effective date of this permit, 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. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous CO monitoring system must be kept on site and available for inspection during regular office hours.

8. The permittee shall operate and maintain equipment to continuously monitor and record CO from this emissions unit in units of the applicable standard. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13. When 40 CFR Part 75 CEMS methodology using fuel flow monitors in conjunction with CEMS data to determine mass emissions, fuel flow meters shall meet the requirements of 40 CFR Part 75, Appendix D, Sections 2.1.2 and 2.1.5.

Data necessary for mass emission calculations per 40 CFR Part 75, Appendix D shall be recorded. The permittee shall maintain records of all data obtained by the continuous CO monitoring system including, but not limited to, parts per million CO on an instantaneous (one minute) basis, emissions of CO in units of the applicable standard in the appropriate averaging period (e.g., hourly, hourly rolling, 3-hour, daily, 30-day rolling, annual, etc.), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

9. Continuous O₂ or CO₂ Monitoring - Certified Systems
Statement of Certification

Prior to the installation of the continuous O₂ monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 3 for approval by the Ohio EPA, Central Office.

Within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit, the permittee shall conduct certification tests of such equipment pursuant to the appropriate sections of ORC section 3704.03(I), and 40 CFR Part 60, Appendix B, Performance Specification 3. Personnel from the appropriate Ohio EPA District Office or local air agency shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after the test is completed. Copies of the test results shall be sent to the appropriate Ohio EPA District Office or local air agency and the Ohio EPA, Central Office. Certification of the continuous O₂ monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of the appropriate sections of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 3.

Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous O₂ monitoring system designed to ensure continuous valid and representative readings of O₂. The plan shall follow the requirements of the appropriate sections of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous O₂ monitoring system must be kept on site and available for inspection during regular office hours.

10. The permittee shall operate and maintain equipment to continuously monitor and record O₂ from this emissions unit in percent O₂. Such continuous monitoring and recording equipment shall comply with the requirements in the appropriate sections specified in 40 CFR Part 60.13

The permittee shall maintain records of all data obtained by the continuous O₂ monitoring system including, but not limited to, percent O₂ on an instantaneous (one-minute) basis, emissions of O₂ results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

11. The permittee shall maintain hourly records of the following information for this emissions unit:

in lb(s)/hr emissions rate for NO_x and CO as obtained from terms A.III.6. and A.III.8, and NOx ppmvd@15% O₂ as obtained from term A.III. 6. based upon an hourly averaging period as allowed in the appropriate sections of 40 CFR Part 60.
12. The permittee maintain records demonstrating that the natural gas fired in this emission unit meets the definition of natural gas in 40 CFR 60.331(u). The permittee shall use one of the following sources of information to make the required demonstration:
 - a. The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content if the fuel is 2.0 grains/100 scf or less; or
 - b. Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 2.0 grains/100 scf. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to 40 CFR 75 is required.
13. The permittee shall use one of the total sulfur sampling options and the associated sampling frequency as described in sections 2.2.3 of appendix D to 40 CFR 75 (i.e. flow proportional sampling, daily sampling, sampling from the unit's storage tank after each addition of fuel to the tank, or sampling each delivery prior to combining it with the fuel oil already in the intended storage tank).
14. The permittee shall maintain documentation on the sulfur contents of the fuels as required in 40 CFR 60.334(h)(3) and (i).
15. The permittee shall perform weekly checks, when this emissions unit is in operation, during daylight hours, and when weather conditions allow, for any visible particulate emissions from the stack/stacks serving this/these emissions unit(s). The presence or absence of any visible emissions shall be noted in an operation log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;

- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and,
 - e. any corrective actions taken to eliminate the visible emissions.
16. The permittee shall maintain daily records of the natural gas usage rate in the duct burner.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or diesel fuel was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurred.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation while burning diesel fuel in the combustion turbines of emissions units P003 and P004. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).
3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month actual heat input limitation to the combustion turbine; the rolling, 12-month natural gas usage limitation for the duct burners for emissions units P003 and P004. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).
4. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record that shows a deviation of the allowable sulfur dioxide limitation specified in term A.II.2. of this permit. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.
5. Pursuant to OAC rules 3745-15-04, and ORC sections 3704.03(l) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NO_x values in excess of the applicable limits specified in 40 CFR Part 76 and any limitations specified in the terms and conditions of this permit or variance. These reports shall also contain the total NO_x emissions for the calendar quarter (in tons).

The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air 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.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with 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, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall address the data obtained during the previous calendar quarter.

Pursuant to OAC rules 3745-15-04, and ORC sections 3704.03(I) and 3704.031, the permittee shall submit a summary of the excess emission reports pursuant to 40 CFR Part 60.7. The summary shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

6. Pursuant to OAC rules 3745-15-04, and ORC sections 3704.03(I) and 3704.031 and 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any) of all instances of CO values in excess of any applicable limitation(s) specified in OAC Chapter 3745-21, 40 CFR Part 60, or any limitation(s) specified in the terms and conditions of this permit, in units of the standard. These reports shall also contain the total CO emissions for the calendar quarter (in tons).

The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air 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.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with 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, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall address the data obtained during the previous calendar quarter.

Pursuant to OAC rules 3745-15-04, and ORC sections 3704.03(I) and 3704.031, the permittee shall submit a summary of the excess emission reports pursuant to 40 CFR Part 60.7. The summary shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following the end of each calendar quarter in a manner prescribed by the Director.

7. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting all instances of continuous O₂ 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 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 be included in the quarterly report. These quarterly reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall address the data obtained during the previous calendar quarter.
8. The permittee shall submit deviation (excursion) reports that identify any record which shows that the sulfur content of the natural gas exceeded 2 grains per standard 100 cubic foot. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(2).
9. In lieu of the excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess emissions reports for emissions unit P003 in accordance with this permit.
10. The permittee shall submit semiannual written reports which (a) identify all weeks during which any visible particulate emissions were observed from the stack serving this emissions units and (b) if needed describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6 calendar month period.
11. The permittee shall submit annual reports which specify the total NO_x, SO₂, OC, PM/PM₁₀ and CO emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year. The CAA, Title V Fee

Emission Report (FER) required to be submitted annually by April 15 for the facility will also satisfy the emission reporting requirement of this condition.

12. This emissions unit is subject to the applicable provisions of Subpart Dc and GG of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60. The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and,
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Hamilton County Department of Environmental Services
250 William Howard Taft Rd.
Cincinnati, Ohio 45219

13. The permittee shall submit deviation (excursion) reports which identify all exceedances of the NO_x and CO emissions limitations for each startup/shutdown cycle as specified in term and condition A.I.2.l and A.I.2.m.
14. The permittee shall submit deviation (excursion) reports which identify all exceedances of the number of startup/shutdown cycles limit in term A.II.6 or the startup/shutdown duration limit in term A.II.7.
15. Unless specified, the deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1 of this permit shall be determined according to the following methods:
 - a. NO_x Emission Limitations

See section A.I.1.

Applicable Compliance Method

Initial compliance with the allowable outlet concentration, and the lbs/hr emission limitations shall be demonstrated by test results from the most recent compliance demonstration, and continual compliance with those limitations shall be demonstrated by the use of the CEM in condition A.III.6 based upon an hourly averaging period. Compliance with the annual emission limitation shall be determined by the record keeping required in condition A.III.2.

b. PM Emission Limitation

See section A.I.1.

Applicable Compliance Method

Compliance with the lbs/hr emission limitations shall be demonstrated by test results from the most recent compliance demonstration. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission rate by the actual annual hours of operation and dividing by 2000 lbs/ton.

c. SO2 Emission Limitation

See section A.I.1.

Applicable Compliance Method

Compliance with the hourly emission limitation shall be determined by the record keeping required in condition A.III.2, 4, 13, and 14. If required, the permittee shall demonstrate compliance by emission testing in accordance with approved US EPA test methods. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission rate by the actual annual hours of operation and dividing by 2000 lbs/ton.

d. OC Emission Limitations

See section A.I.1.

Applicable Compliance Method

Compliance with the lbs/hr limitations shall be demonstrated by test results from the most recent compliance demonstration. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission rate by the actual annual hours of operation and dividing by 2000 lbs/ton.

e. CO Emission Limitation

See section A.I.1.

Applicable Compliance Method

Initial compliance with the lbs/hr emission limitations shall be demonstrated by test results from the most recent compliance demonstration, and continual compliance with those limitations shall be demonstrated by the use of the CEM in condition A.III.8 based upon an hourly averaging period. Compliance with the annual emission limitation shall be determined by the record keeping required in condition III.2.

f. Emission Limitation

Visible particulate emissions from any stack shall not exceed 10 percent opacity as a six-minute average.

Applicable Compliance Method

Compliance with the visible emissions limitation established by this permit shall be determined by Method 9, 40 CFR Part 60 Appendix A.

g. Benzene Emission Limitations

See section A.I.1.

Applicable Compliance Method

Compliance with the TPY emission limitation shall be demonstrated by using the AP-42 emission factors and estimated destruction efficiencies.

2. Emission Limitation:

0.05 percent sulfur by weight for the diesel fuel.

Applicable Compliance Method:

When firing diesel fuel, except as provided below, compliance with the allowable SO₂ emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of diesel fuel received during a calendar month meets the limitation.

If required, the permittee shall demonstrate compliance with this emission limitation (when firing diesel fuel) in accordance with 40 CFR, Part 60, Appendix A, Method 6C.

3. Compliance with the hours of operation limitation when burning diesel fuel in the combustion turbine shall be demonstrated by the record keeping in term A.III.2.
4. Compliance with the natural gas usage limitation for the duct burner shall be demonstrated by the record keeping in term A.III.2.
5. Compliance with the emissions limitations in terms and conditions A.I.2.l and A.I.2.m shall be demonstrated by the monitoring and record keeping required in term and condition A.III.3.
6. Compliance with the limitation in term and condition A.II.6 shall be demonstrated by the monitoring and record keeping required in term and condition A.III.2.g.
7. Compliance with the operational restriction in term and condition A.II.7 shall be demonstrated by the monitoring and record keeping required in term and condition A.III.3
8. Compliance with the annual heat input operational restriction in term and condition A.II.8 shall be demonstrated by the monitoring and record keeping required in term and condition A.III.2.l.

VI. Miscellaneous Requirements

1. The terms and conditions in this Permit to Install supersede the terms and conditions with regard to emissions unit P003 and P004 in Permit to Install 14-05108 as issued on August 15, 2002, and modified on August 25, 2005 and May 15, 2007.

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.

Operations, Property, and/or Equipment - (P004) - 13.5 MW Natural Gas/ No. 2 Fuel Oil fired Turbines with 98.5 MMBtu/hr duct burner

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	See term B.VI
OAC rule 3745-110	See term A.I.2.a.

2. **Additional Terms and Conditions**

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as

defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

NEW SOURCE REVIEW FORM B

PTI Number: 14-05950

Facility ID: 1431070849

FACILITY NAME University of Cincinnati

FACILITY DESCRIPTION Request to modify PTI 14-05108 for emissions units P003 and P004, Combined Cycle Gas Turbines, to increase allowable CO and OC emissions. CITY/TWP Cincinnati

SIC CODE 3511 SCC CODE 2-02-002-03, 2-02-001-03 EMISSIONS UNIT ID P003

EMISSIONS UNIT DESCRIPTION 14.5 MW Natural Gas/ No. 2 Fuel Oil fired Turbines with 98.5 MMBtu/hr duct burner

DATE INSTALLED 1/2003

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	2.78 lbs/hr	14.0	2.78 lbs/hr	14.0
PM ₁₀	attainment	2.78 lbs/hr	14.0	2.78 lbs/hr	14.0
Sulfur Dioxide	attainment	7.60 lbs/hr	3.3	7.60 lbs/hr	3.3
Organic Compounds	non-attainment	0.78 lbs/hr	5.64	0.78 lbs/hr	5.64
Nitrogen Oxides	attainment	54.91 lbs/hr	183.0	54.91 lbs/hr	183.0
Carbon Monoxide	attainment	2.84 lbs/hr	85.7	2.84 lbs/hr	85.7
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? Dc, GG

NESHAP?

PSD? **Y**

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination Use of dry low NOx combustion, oxidation catalyst for CO control

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

NEW SOURCE REVIEW FORM B

PTI Number: 14-05950

Facility ID: 1431070849

FACILITY NAME University of Cincinnati

FACILITY DESCRIPTION Request to modify PTI 14-05108 for emissions units P003 and P004, Combined Cycle Gas Turbines, to increase allowable CO and OC emissions. CITY/TWP Cincinnati

SIC CODE 3511 SCC CODE 2-02-002-03, 2-02-001-03 EMISSIONS UNIT ID P004

EMISSIONS UNIT DESCRIPTION 14.5 MW Natural Gas/ No. 2 Fuel Oil fired Turbines with 98.5 MMBtu/hr duct burner

DATE INSTALLED 1/2003

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	2.78 lbs/hr	14.0	2.78 lbs/hr	14.0
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APPLICABLE FEDERAL RULES:

NSPS? Dc, GG

NESHAP?

PSD? **Y**

OFFSET POLICY?

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Enter Determination Use of dry low NOx combustion, oxidation catalyst for CO control

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IDENTIFY THE AIR CONTAMINANTS: _____