State of Ohio Environmental Protection Agency

RE: FINAL PERMIT TO INSTALL **CERTIFIED MAIL**
WOOD COUNTY

Street Address: Mailing Address: Lazarus Gov. Center
Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329

Application No: 03-13497

DATE: 6/5/2001

PG&E Disbursed Generating Company, LLC
Harry Rubin
7500 Old Georgetown Road
Bethesda, MD 20814

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 by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

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

CC: **USEPA** **NWDO** **Alan Lloyd NSR group - OEPA/Central Office**
Alan Lloyd NSR group - OEPA/CO

FINAL PERMIT TO INSTALL 03-13497

Application Number:	03-13497
APS Premise Number:	0387020378
Permit Fee:	**$400**
Name of Facility:	PG&E Disbursed Generating Company, LLC
Person to Contact:	Harry Rubin
Address:	7500 Old Georgetown Road Bethesda, MD 20814

Location of proposed air contaminant source(s) [emissions unit(s)]:
1225 North College Drive
Bowling Green, Ohio

Description of proposed emissions unit(s):
2 Natural Gas fired Peaking Turbines.

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

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 <u>emission limitations</u>, <u>operational restrictions</u>, <u>and control device operating parameter limitations</u>, 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 quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous

calendar quarters. See B.10 below if no deviations occurred during the quarter.

iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. Scheduled Maintenance/Malfunction Reporting

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

b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.

c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

d. This permit does not convey any property rights of any sort, or any exclusive privilege.

e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit To Install fees within 30 days after the issuance of this Permit To Install.

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 of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

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 To Install 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 thirty (30) 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.

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

1. Compliance Requirements

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

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping 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 quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. 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. 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.

5. Termination of Permit To Install

This permit to install shall terminate within eighteen months of the effective date of the permit to install 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.

6. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. 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 the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install 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.

7. 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.

8. 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).

9. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) 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.

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

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

C. Permit To Install Summary of Allowable Emissions

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

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant	Tons Per Year
NOx	58.71
PE	11.90
SO2	4.86
CO	100.63
VOC	7.64
Formaldehyde	0.61

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

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

None.

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	Applicable Rules/Requirements	
P003 - GE Frame 5LA natural gas fired combustion turbine with a nominal generating capacity of 16.4 MW controlled with a selective catalytic reduction (SCR) system	OAC Rule 3745-31-05(A)(3)	
		OAC Rule 3745-31-05(D) Synthetic Minor to avoid Prevention of Significant Deterioration (PSD) and 112(g) applicability
		OAC Rule 3745-17-11(B)(4)
		OAC Rule 3745-17-07

		Operational restrictions, see B.1.
OAC Rule 3745-18-06(F)	Applicable Emissions Limitations/Control Measures	15.64 tons NO_x per rolling 12 month period
40 CFR 60, Subpart GG	Nitrogen oxides (NO_x) emissions shall not exceed 14 ppmvd at 15% oxygen	34.0 tons CO per rolling 12 month period
40 CFR Part 75		
OAC Rule 3745-103	13.90 lbs NO_x/hr	
	0.0140 lb particulate emissions (PE)/MM Btu heat input	see A.2.a
	3.77 lbs PE/hr & 4.24 tons PE/yr	see A.2.a
	0.0057 lb sulfur dioxide (SO_2)/MM Btu heat input	see A.2.a
	1.54 lbs SO_2/hr & 1.73 tons SO_2/yr	see A.2.c
	0.112 lbs carbon monoxide (CO)/MM Btu heat input	see A.2.b
	30.22 lbs CO/hr	see A.2.b
	2.42 lbs volatile organic compounds (VOC)/hr & 2.72 tons VOC/yr	
	0.19 lbs Formaldehyde/hr & 0.22 tons Formaldehyde/yr	
	Startup and shutdown emissions:	
	2.34 tons NOx/yr 0.84 tons CO/yr	
	Visible particulate emissions from any stack shall not exceed 10 percent opacity as a six-minute average	

2. Additional Terms and Conditions

2.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).

2.b If the permittee is subject to the requirements of 40 CFR Part 75 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.

2.c 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. 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.

II. Operational Restrictions

1. The maximum annual hours of operation for emissions unit P003 shall not exceed 2,250 hours*, based upon a rolling, 12-month summation.

   To ensure federal enforceability during the first 12 calendar months following the startup of this emissions unit the permittee shall not exceed the monthly hours of operation restrictions specified in the following table:

Month	Cumulative hours of Operation
1	400
1-2	800
1-3	1200
1-4	1600
1-5	2000

1-12	2,250

After the first 12 calendar months following the startup of emissions unit P003, compliance with the annual hours of operation restriction shall be based on a rolling 12-month summation.

* This annual restriction includes startup and shutdown periods as described in condition A.II.3. The maximum annual hours of startups and shutdowns for this emissions unit shall not exceed 125 hours per year.

2. The permittee shall burn only natural gas in this emissions unit. The maximum sulfur content of the natural gas shall not exceed 0.0068 percent by weight.

3. As specified in the permittee's PTI application, the maximum heat input rating of this emissions unit is 269.44 MMBtu/hr. . This value corresponds to a maximum NG flow of 269,440 cf/hr with a heat content of 1000 Btu/cf . The permittee shall operate this emissions unit within the parameters specified above, except for startup and shutdown. Start-up shall be defined as the time necessary to bring the SCR unit to it's minimum operating temperature (as recommended by the vendor), but under no circumstances shall it exceed 60 minutes in duration. Shutdown periods shall not exceed 30 minutes in duration.

4. With the exception of startup and shutdown, emissions unit P003 shall be operated at 100% load. The permittee may petition the Ohio EPA to operate at a greater load range if it can demonstrate to the agency's satisfaction that the emissions unit will comply with all applicable emission limits in this permit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:

   a. the operating hours;

   b. during the first 12 calendar months of operation, the permittee shall record the cumulative operating hours for each calendar month; and

   c. beginning after the first 12 calendar months of operation, the rolling, 12-month summation of the operating hours.

   d. in lb(s)/hr emissions rate* for NOx and CO ;

e. during the first 12 calendar months of operation, the cumulative NO_x and CO emissions, in tons (b x d, for each pollutant); and

f. beginning after the first 12 calendar months of operation, the rolling, 12-month NO_x and CO emissions, in tons © x d, for each pollutant).

* As determined by the most recent test data or continuous monitoring data available for each pollutant.

For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of the fuel burned in this emissions unit.

4. The information management system for this emissions unit shall be capable of monitoring and recording fuel flow in cu ft or million cu ft per hour. The permittee shall also maintain documentation on the volumetric flow rate of the exhaust gases of this emissions unit, based on stoichiometric calculations.

5. The permittee shall determine compliance with the sulfur content standard as follows: ASTM D 2880-71 shall be used to determine the sulfur content of liquid fuels and ASTM D 1072-80, D 3031-81, D4084-82, or D 3246-81 shall be used for the sulfur content of gaseous fuels. The permittee shall determine the heat content of the fuels using ASTM method D240. The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the approval of the Ohio EPA, Central Office. The newest or most recent revisions to the applicable test method shall be used for these analyses. Alternative, equivalent methods may be used if they comply with the requirements specified in 40 CFR Part 60.13 or upon written approval by the Ohio EPA, Central Office. The frequency of the sampling shall be such that it complies with the requirements specified in 40 CFR Part 60.334 . A custom fuel monitoring schedule may be used if approved by the Ohio EPA, Northwest District Office.

6. Except for periods described in 40 CFR part 60.13, the permittee shall install, operate, and maintain 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 specified by the Ohio EPA (typically compliance with portions of in 40 CFR Part 60.13 and 40 CFR Part 75).

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 (with an hourly averaging period), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

* The installation and operation of systems to continuously monitor and record emissions of NO_x may be performed in lieu of monitoring the nitrogen content of the natural gas being fired in the turbine, as required by 40 CFR 60.334(b).

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation, all exceedances of the maximum allowable cumulative operating hours levels. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).

3. Pursuant to OAC Rules 3745-15-04, 3745-35-02, 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 (ie., startup and shutdown periods as defined in Condition B.3. above, malfunctions, etc.), and corrective actions taken (if any), of all instances of NO_x values in excess of the applicable limits specified in the terms and conditions of this permit. These reports shall also contain the total NO_x emissions for the calendar quarter (in tons).

   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 30, April 30, July 30, and October 30 of each year and shall address data obtained during the previous calendar quarter.

4. Pursuant to OAC Rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031, the permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60.7. The summary shall be submitted to the 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.

5. The permittee shall submit deviation (excursion) reports that identify any record which shows that the sulfur content of the natural gas exceeded 0.0068 percent by weight. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(2).

6. The permittee shall submit deviation (excursion) reports that identify each time when this emissions unit was not in compliance with the requirements of condition B.3. above.

7. In lieu of excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess and emissions reports for emissions unit P003 in accordance with this permit.

8. 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:

   Ohio Environmental Protection Agency
   DAPC - Permit Management Unit
   Lazarus Government Center
   P.O. Box 1049
   Columbus, Ohio 43216-1049

   and

   Ohio Environmental Protection Agency
   Northwest District Office
   Division of Air Pollution Control
   347 North Dunbridge Road
   Bowling Green, Ohio 43402

   This emissions unit is subject to the applicable provisions of Subpart 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."

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

   a. The emission testing shall be conducted within 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.

   b. The emission testing* shall be conducted to demonstrate compliance with the NO_x outlet concentration, the lbs/MM Btu limitations for CO SO_2**, and PE, and the mass emissions limitations for NO_x, CO, SO_2, VOC, and PE.

   c. The following test method(s) shall be employed to demonstrate compliance with the above emissions limitations: for NO_x, Method 20 of 40 CFR Part 60, Appendix A; for PE, Method 5 of 40 CFR Part 60, Appendix A; for VOC Method 25 of 40 CFR Part 60, Appendix A; for SO_2, Method 20 of 40 CFR Part 60, Appendix A; and for CO Method 10 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

   d. The testing shall be performed at peak load (as defined by 40 CFR part 60.331), unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

   e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Northwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the

time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Northwest District Office refusal to accept the results of the emission test(s).

f. Personnel from the Ohio EPA, Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northwest District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Northwest District Office.

h. The stack on this emissions unit shall be constructed such that the height and port locations meet the minimum requirements necessary to perform Methods 1-4 of 40 CFR Part 60, Appendix A.

* In lieu of the test methods and procedures required under 40 CFR Part 60.335, the permittee shall follow the testing requirements in accordance with this permit.

**In lieu of the initial SO2 emissions testing required above, the permittee may sample the

Emissions Unit ID: P003

Sulfur content of the fuel as provided for in 40 CFR Subpart GG.

2. 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 NO_x monitoring system pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6* . 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 ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6.

   *If approved by the Ohio EPA Central Office, the permittee may use 40 CFR Part 60, Appendix B, Performance Specification 2 in conjunction with a fuel flow monitor as described in 40 CFR Part 75 to meet this requirement.

3. Compliance with the allowable emission limitations in this permit shall be determined according to the following methods:

   a. <u>Emission Limitation</u>

   NO_x emissions shall not exceed 14 ppmvd at 15% Oxygen
   13.90 lbs NO_x/hr & 15.64 tons NO_x per rolling 12 month period

   <u>Applicable Compliance Method</u>
   Compliance with the allowable outlet concentration shall be demonstrated by the performance testing as described in condition A.V.1.b.. Compliance with the lbs/hr emission limitation shall be demonstrated by the use of a continuous emissions monitor as described in conditions A.III.4. and A.III.6.(as approved by the Ohio EPA), and also by the performance testing as described in condition A.V.1.c.. Compliance with the annual emission limitation shall be

determined by the record keeping required in condition A.III.1..

b. Emission Limitation

0.0140 lb PE/MM Btu heat input
3.77 lbs PE/hr & 4.24 tons PE/yr

Applicable Compliance Method
0.0140 lb(s) of PE/MMBtu heat input is the vendor specification and is considered an appropriate emission factor for this emissions unit. Compliance with the lbs/hr emission limitation shall be demonstrated by the performance testing as described in condition A.V.1.b. in conjunction with the heat input limitation. If required, the permittee shall demonstrate compliance by additional mass emissions testing. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission rate by the actual hours of operation and dividing by 2000 lbs/ton.

c. Emission Limitation

0.0057 lb SO_2/MM Btu heat input
1.54 lbs SO_2/hr & 1.73 tons SO_2/yr

Applicable Compliance Method
Compliance with the lb/MM Btu heat input emission limitations shall be demonstrated by the performance testing as described in condition A.V.1.b.. Compliance with the lbs/hr emission limitation shall be demonstrated by the use of a continuous monitor as described in condition A.III.4. (as approved by the Ohio EPA), in conjunction with the heat input emission factor , and also by the performance testing as described in condition A.V.1.c.. If required, the permittee shall demonstrate compliance by additional mass emissions testing. Compliance with the annual emission limitation shall be

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

d. Emission Limitation

2.42 lbs VOC/hr & 2.72 tons VOC/yr

Applicable Compliance Method
Compliance with the lbs/hr emission limitation shall be demonstrated by the performance testing as described in condition A.V.1.b.. If required, the permittee shall demonstrate compliance by additional mass emissions testing. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission rate by the actual hours of operation and dividing by 2000 lbs/ton.

e. Emission Limitation

0.1120 lb CO /MM Btu heat input
30.22 lbs CO/hr & 34.0 tons CO per rolling 12 month period

Applicable Compliance Method
Compliance with the lbs/hr shall be demonstrated by the performance testing in condition A.V.1.b.. If required, the permittee shall demonstrate compliance by additional mass emissions testing. Compliance with the annual emission limitation shall be determined by the record keeping required in condition A.III.1..

f. Emission Limitation

Startup and shutdown emissions:
2.34 tons NO_x/yr
0.84 tons CO/yr

Applicable Compliance Method
Compliance with the annual emission

limitation shall be determined by the record keeping required in condition A.III.2.

g. Emission Limitation

0.19 lb formaldehyde/hr & 0.22 tons formaldehyde/yr

Applicable Compliance Method
Compliance with the lb/hr emission limitation shall be demonstrated by multiplying the emission factor of 0.00071pound of formaldehyde/MM Btu heat input (AP-42 , Table 3.1-3 dated 4/00) by the maximum Btu rating of 269.44 MM Btu/hr, and also by the performance testing as described in condition A.V.1.c.. If required, the permittee shall demonstrate compliance by additional mass emission testing 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.

h. 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.

VI. Miscellaneous Requirements

1. Should this emissions unit be converted from a simple cycle to a combined cycle turbine in the future, a new BAT determination would be required.

2. 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 for approval by the Ohio EPA, Central Office.

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 specified by the Ohio EPA (typically compliance with portions of 40 CFR Part 60 Appendix F and 40 CFR Part 75 Appendix B). The quality assurance/quality control plan and a logbook dedicated to the continuous NO_x monitoring system must be kept on site and available for inspection during regular office hours.

3. In accordance with good engineering practices, the SCR unit on emissions unit P003 shall be installed, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. The permittee shall maintain on site a copy of the operation & maintenance manual, as provided by the manufacturer.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P003 - GE Frame 5LA natural gas fired combustion turbine with a nominal generating capacity of 16.4 MW controlled with a selective catalytic reduction (SCR) system		See B.III.

2. Additional Terms and Conditions

2.a NONE

II. Operational Restrictions

NONE

III. Monitoring and/or Recordkeeping Requirements

1. The permit to install for this permit action as evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). This analysis is based upon the combined modeling of "all" air emission sources

emitting air toxics that are contained in this PTI. The following summarizes the results of the modeling for the "worst case" pollutant(s) for all sources combined:

Pollutant: Formaldehyde
TLV (ug/m3): 273 (Converted from the STEL)
Maximum Hourly Emission Rate (lbs/hr): 4.23*
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3.73
MAGLC (ug/m3): 6.49

Pollutant: Sulfuric Acid
TLV (ug/m3): 1000
Maximum Hourly Emission Rate (lbs/hr): 2.78*
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 2.43
MAGLC (ug/m3): 23.8

Pollutant: Ammonia
TLV (ug/m3): 17000
Maximum Hourly Emission Rate (lbs/hr): 21.38*
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 18.8
MAGLC (ug/m3): 404.8

* This was modeled for emissions units P001, P002, P003, and P004 combined.

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the " Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

   a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

   b. changes in the composition of the materials, or use of new materials, that would result in

an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

3. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

4. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

NONE

V. Testing Requirements

NONE

VI. Miscellaneous Requirements

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	Applicable Rules/Requirements	
P004 - Westinghouse 301G natural gas fired combustion turbine with a nominal generating capacity of 31.6 MW controlled with a selective catalytic reduction (SCR) system	OAC Rule 3745-31-05(A)(3)	
		OAC Rule 3745-31-05(D) Synthetic Minor to avoid Prevention of Significant Deterioration (PSD) and 112(g) applicability
		OAC Rule 3745-17-11(B)(4)

OAC Rule 3745-17-07	Applicable Emissions Limitations/Control Measures	28.22 tons NO_x per rolling 12 month period
OAC Rule 3745-18-06(F)	Nitrogen oxides (NO_x) emissions shall not exceed 14 ppmvd at 15% oxygen	61.37 tons CO per rolling 12 month period
40 CFR 60, Subpart GG	25.08 lbs NO_x/hr	see A.2.a
40 CFR Part 75	0.0140 lb particulate emissions (PE)/MM Btu heat input 6.81 lbs PE/hr & 7.66 tons PE/yr	see A.2.a see A.2.a
OAC Rule 3745-103	0.0057 lb sulfur dioxide (SO_2)/MM Btu heat input 2.78 lbs SO_2/hr & 3.13 tons SO_2/yr	see A.2.c see A.2.b
	0.122 lbs carbon monoxide (CO)/MM Btu heat input 54.55 lbs CO/hr	see A.2.b
	4.37 lbs volatile organic compounds (VOC)/hr & 4.92 tons VOC/yr	
	0.35 lbs formaldehyde/hr & 0.39 tons formaldehyde/yr	
	Startup and shutdown emissions:	
	12.51 tons NO_x/yr 4.42 tons CO/yr	
	Visible particulate emissions from any stack shall not exceed 10 percent opacity as a six-minute average	
	Operational restrictions, see B.1.	

2. Additional Terms and Conditions

2.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).

2.b If the permittee is subject to the requirements of 40 CFR Part 75 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.

2.c 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. 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.

II. Operational Restrictions

1. The maximum annual hours of operation for emissions unit P004 shall not exceed 2,250 hours*, based upon a rolling, 12-month summation.

   To ensure federal enforceability during the first 12 calendar months following the startup of this emissions unit the permittee shall not exceed the monthly hours of operation restrictions specified in the following table:

Month	Cumulative hours of Operation
1	400
1-2	800
1-3	1200
1-4	1600
1-5	2000
1-12	2,250

   After the first 12 calendar months following the startup of emissions unit P004, compliance with the annual hours of operation restriction shall be based on a rolling 12-month summation.

   * This annual restriction includes startup and shutdown periods as they are described in condition A.II.3. The maximum annual hours of start-ups and shutdowns for this emissions unit shall not exceed 375 hours per year.

2. The permittee shall burn only natural gas in this emissions unit. The maximum sulfur content of the natural gas shall not exceed 0.0068 percent by weight.

3. As specified in the permittee's PTI application, the maximum heat input rating of this emissions unit is 486.35 MM Btu/hr. This value corresponds to a maximum NG flow of 486,350 cf/hr with

a heat content of 1000 Btu/cf . The permittee shall operate this emissions unit within the parameters specified above, except for startup and shutdown. Start-up shall be defined as the time necessary to bring the SCR unit to it's minimum operating temperature (as recommended by the vendor), but under no circumstances shall it exceed 60 minutes in duration. Shutdown periods shall not exceed 30 minutes in duration.

4. With the exception of startup and shutdown, emissions unit P004 shall be operated at 100% load. The permittee may petition the Ohio EPA to operate at a greater load range if it can demonstrate to the agency's satisfaction that the emissions unit will comply with all applicable emission limits in this permit.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:

   a. the operating hours;

   b. during the first 12 calendar months of operation, the permittee shall record the cumulative operating hours for each calendar month; and

   c. beginning after the first 12 calendar months of operation, the rolling, 12-month summation of the operating hours.

   d. in lb(s)/hr emissions rate* for NOx and CO ;

   e. during the first 12 calendar months of operation, the cumulative NO_x and CO emissions, in tons (b x d, for each pollutant); and

   f. beginning after the first 12 calendar months of operation, the rolling, 12-month NO_x and CO emissions, in tons © x d, for each pollutant).

   * As determined by the most recent test data or continuous monitoring data available for each pollutant.

2. The permittee shall maintain monthly records of the following information for this emissions unit:

   a. the number of operating hours which included startups and shutdowns;

   b. in lb(s)/hr emission rate* for NO_x and CO;

   c. the NO_x and CO emissions, in tons (a x b, for each pollutant); and

   d. the annual, year-to-date NO_x and CO emissions associated with the startups and

shutdowns, in tons (summation of c, for each pollutant).

* The permittee shall use 91.82 lbs NO_x/hr and 78.1 lbs CO/hr as the emission factors for the additional limits associated with the startup and shutdown periods, or as determined by testing data or continuous monitoring data that becomes available for this emissions unit.

3. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of the fuel burned in this emissions unit.

4. The information management system for this emissions unit shall be capable of monitoring and recording fuel flow in cu ft or million cu ft per hour. The permittee shall also maintain documentation on the volumetric flow rate of the exhaust gases of this emissions unit, based on stoichiometric calculations.

5. The permittee shall determine compliance with the sulfur content standard as follows: ASTM D 2880-71 shall be used to determine the sulfur content of liquid fuels and ASTM D 1072-80, D 3031-81, D4084-82, or D 3246-81 shall be used for the sulfur content of gaseous fuels. The permittee shall determine the heat content of the fuels using ASTM method D240. The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the approval of the Ohio EPA, Central Office. The newest or most recent revisions to the applicable test method shall be used for these analyses. Alternative, equivalent methods may be used if they comply with the requirements specified in 40 CFR Part 60.13 or upon written approval by the Ohio EPA, Central Office. The frequency of the sampling shall be such that it complies with the requirements specified in 40 CFR Part 60.334 . A custom fuel monitoring schedule may be used if approved by the Ohio EPA, Northwest District Office.

6. Except for periods described in 40 CFR part 60.13, the permittee shall install, operate, and maintain 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 specified by the Ohio EPA (typically compliance with portions of in 40 CFR Part 60.13 and 40 CFR Part 75).

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 (with an hourly averaging period), results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

* The installation and operation of systems to continuously monitor and record emissions of NO_x

may be performed in lieu of monitoring the nitrogen content of the natural gas being fired in the turbine, as required by 40 CFR 60.334(b).

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation, all exceedances of the maximum allowable cumulative operating hours levels. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).

3. Pursuant to OAC Rules 3745-15-04, 3745-35-02, 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 (ie., startup and shutdown periods as defined in Condition B.3. above, malfunctions, etc.), and corrective actions taken (if any), of all instances of NO_x values in excess of the applicable limits specified in the terms and conditions of this permit. These reports shall also contain the total NO_x emissions for the calendar quarter (in tons).

   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 30, April 30, July 30, and October 30 of each year and shall address data obtained during the previous calendar quarter.

4. Pursuant to OAC Rules 3745-15-04, 3745-35-02, and ORC sections 3704.03(I) and 3704.031, the permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60.7. The summary shall be submitted to the 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.

5. The permittee shall submit deviation (excursion) reports that identify any record which shows that the sulfur content of the natural gas exceeded 0.0068 percent by weight. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(2).

6. The permittee shall submit deviation (excursion) reports that identify each time when this emissions unit was not in compliance with the requirements of condition B.3. above.

7. In lieu of excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess and emissions reports for emissions unit P004 in accordance with this permit.

8. 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:

   Ohio Environmental Protection Agency
   DAPC - Permit Management Unit
   Lazarus Government Center
   P.O. Box 1049
   Columbus, Ohio 43216-1049

   and

   Ohio Environmental Protection Agency
   Northwest District Office
   Division of Air Pollution Control
   347 North Dunbridge Road
   Bowling Green, Ohio 43402

   This emissions unit is subject to the applicable provisions of Subpart 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."

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in

accordance with the following requirements:

a. The emission testing shall be conducted within 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.

b. The emission testing* shall be conducted to demonstrate compliance with the NO_x outlet concentration, the lbs/MM Btu limitations for CO SO_2**, and PE, and the mass emissions limitations for NO_x, CO, SO_2, VOC, and PE.

c. The following test method(s) shall be employed to demonstrate compliance with the above emissions limitations: for NO_x, Method 20 of 40 CFR Part 60, Appendix A; for PE, Method 5 of 40 CFR Part 60, Appendix A; for VOC Method 25 of 40 CFR Part 60, Appendix A; for SO_2, Method 20 of 40 CFR Part 60, Appendix A; and for CO Method 10 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

d. The testing shall be performed at peak load (as defined by 40 CFR part 60.331), unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Northwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Northwest District Office refusal to accept the results of the emission test(s).

f. Personnel from the Ohio EPA, Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and

acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northwest District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Northwest District Office.

h. The stack on this emissions unit shall be constructed such that the height and port locations meet the minimum requirements necessary to perform Methods 1-4 of 40 CFR Part 60, Appendix A.

* In lieu of the test methods and procedures required under 40 CFR Part 60.335, the permittee shall follow the testing requirements in accordance with this permit.

**In lieu of the initial SO2 emissions testing required above, the permittee may sample the
Sulfur content of the fuel as provided for in 40 CFR Subpart GG.

2. 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 NO_x monitoring system pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6* . 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 ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6.

*If approved by the Ohio EPA Central Office, the permittee may use 40 CFR Part 60, Appendix B, Performance Specification 2 in conjunction with a fuel flow monitor as described in 40 CFR Part 75 to meet this requirement.

3. Compliance with the allowable emission limitations in this permit shall be determined according to the following methods:

a. Emission Limitation

NO_x emissions shall not exceed 14 ppmvd at 15% Oxygen
25.08 lbs NO_x/hr & 28.22 tons NO_x per rolling 12 month period

Applicable Compliance Method
Compliance with the allowable outlet concentration shall be demonstrated by the performance testing as described in condition A.V.1.b.. Compliance with the lbs/hr emission limitation shall be demonstrated by the use of a continuous emissions monitor as described in conditions A.III.4. and A.III.6.(as approved by the Ohio EPA), and also by the performance testing as described in condition A.V.1.c.. Compliance with the annual emission limitation shall be determined by the record keeping required in condition A.III.1..

b. Emission Limitation

0.0140 lb PE/MM Btu heat input
6.81 lbs PE/hr & 7.66 tons PE/yr

Applicable Compliance Method
0.0140 lb(s) of PE/MMBtu heat input is the vendor specification and is considered an appropriate emission factor for this emissions unit. Compliance with the lbs/hr emission limitation shall be demonstrated by the performance testing as described in condition

A.V.1.b. in conjunction with the heat input limitation. If required, the permittee shall demonstrate compliance by additional mass emissions testing. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission rate by the actual hours of operation and dividing by 2000 lbs/ton.

c. Emission Limitation

0.0057 lb SO_2/MM Btu heat input
2.78 lbs SO_2/hr & 3.13 tons SO_2/yr

Applicable Compliance Method
Compliance with the lb/MM Btu heat input emission limitations shall be demonstrated by the performance testing as described in condition A.V.1.b.. Compliance with the lbs/hr emission limitation shall be demonstrated by the use of a continuous monitor as described in condition A.III.4. (as approved by the Ohio EPA), in conjunction with the heat input emission factor , and also by the performance testing as described in condition A.V.1.c.. If required, the permittee shall demonstrate compliance by additional mass emissions testing. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission rate by the actual hours of operation and dividing by 2000 lbs/ton.

d. Emission Limitation

4.37 lbs VOC/hr & 4.92 tons VOC/yr

Applicable Compliance Method
Compliance with the lbs/hr emission limitation shall be demonstrated by the performance testing as described in condition A.V.1.b.. If required, the permittee shall

demonstrate compliance by additional mass emissions testing. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission rate by the actual hours of operation and dividing by 2000 lbs/ton.

e. Emission Limitation

0.1120 lb CO /MM Btu heat input
54.55 lbs CO/hr & 61.37 tons CO per rolling 12 month period

Applicable Compliance Method
Compliance with the lbs/hr shall be demonstrated by the performance testing in condition A.V.1.b.. If required, the permittee shall demonstrate compliance by additional mass emissions testing. Compliance with the annual emission limitation shall be determined by the record keeping required in condition A.III.1..

f. Emission Limitation

Startup and shutdown emissions:
12.51 tons NO_x/yr
4.42 tons CO/yr

Applicable Compliance Method
Compliance with the annual emission limitation shall be determined by the record keeping required in condition A.III.2.

g. Emission Limitation

0.35 lb formaldehyde/hr & 0.39 tons formaldehyde/yr

Applicable Compliance Method
Compliance with the lb/hr emission limitation shall be demonstrated by multiplying the emission factor of 0.00071

pound of formaldehyde/MM Btu heat input (AP-42, Table 3.1-3 dated 4/00) by the maximum Btu rating of 486.35 MM Btu/hr, and also by the performance testing as described in condition A.V.1.c.. If required, the permittee shall demonstrate compliance by additional mass emission testing 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.

h. 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.

VI. Miscellaneous Requirements

1. Should this emissions unit be converted from a simple cycle to a combined cycle turbine in the future, a new BAT determination would be required.

2. 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 for approval by the Ohio EPA, Central Office.

   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 specified by the Ohio EPA (typically compliance with portions of 40 CFR Part 60 Appendix F and 40 CFR Part 75 Appendix B). The quality assurance/quality control plan and a logbook dedicated to the continuous NO_x monitoring system must be kept on site and available for inspection during regular office hours.

3. In accordance with good engineering practices, the SCR unit on emissions unit P004 shall be installed, operated and maintained in accordance with the manufacturer's recommendations, with

any modifications deemed necessary by the permittee. The permittee shall maintain on site a copy of the operation & maintenance manual, as provided by the manufacturer.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P004 - Mitsubishi 301G natural gas fired combustion turbine with a maximum generating capacity of 31.6 MW controlled with a selective catalytic reduction (SCR) system		See B.III

2. Additional Terms and Conditions

2.a NONE

II. Operational Restrictions

NONE

III. Monitoring and/or Recordkeeping Requirements

1. The permit to install for this permit action as evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). This analysis is based upon the combined modeling of "all" air emission sources emitting air toxics that are contained in this PTI. The following summarizes the results of the

modeling for the "worst case" pollutant(s) for all sources combined:

Pollutant: Formaldehyde
TLV (ug/m3): 273 (Converted from the STEL)
Maximum Hourly Emission Rate (lbs/hr): 4.23*

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3.73
MAGLC (ug/m3): 6.49

Pollutant: Sulfuric Acid
TLV (ug/m3): 1000
Maximum Hourly Emission Rate (lbs/hr): 2.78*
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 2.43
MAGLC (ug/m3): 23.8

Pollutant: Ammonia
TLV (ug/m3): 17000
Maximum Hourly Emission Rate (lbs/hr): 21.38*
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 18.8
MAGLC (ug/m3): 404.8

* This was modeled for emissions units P001, P002, P003, and P004 combined.

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the " Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

   a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

   b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

3. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

4. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

NONE

V. Testing Requirements

NONE

VI. Miscellaneous Requirements

NONE

NEW SOURCE REVIEW FORM B

PTI Number: 03-13497 Facility ID: 0387020378

FACILITY NAME PG&E Dispersed Generating Company, LLC

FACILITY DESCRIPTION 4 Natural Gas fired peaking turbines CITY/TWP Bowling Green

Emissions Unit ID: P004

SIC CODE 4911 SCC CODE 2-03-002-02 EMISSIONS UNIT ID P003

EMISSIONS UNIT DESCRIPTION Natural gas fired peaking turbine with a maximum generating capacity of 16.4 MW

DATE INSTALLED 01/2001

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				3.77	4.24
PM_{10}	attainment				
Sulfur Dioxide	attainment			1.54	1.73
Organic Compounds				2.42	2.72
Nitrogen Oxides	attainment			13.90	15.64
Carbon Monoxide	attainment			30.22	34.00
Lead	attainment				
Other: Formaldehyde Sulfuric Acid Ammonia		 0.47 3.67	 0.53 4.13	0.19	0.22

APPLICABLE FEDERAL RULES:

NSPS? GG NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?
Enter Determination Use of Selective Catalytic Reduction (SCR) and compliance with the terms and conditions of this permit

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? $829,822

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*? X YES ____ NO

IDENTIFY THE AIR CONTAMINANTS: Formaldehyde, Sulfuric Acid, Ammonia

NEW SOURCE REVIEW FORM B

PTI Number: 03-13497 Facility ID: 0387020378

FACILITY NAME PG&E Dispersed Generating Company, LLC

FACILITY DESCRIPTION 4 Natural Gas fired Peaking Turbines CITY/TWP Bowling Green

Emissions Unit ID: P004

SIC CODE 4911 SCC CODE 2-03-002-02 EMISSIONS UNIT ID P004

EMISSIONS UNIT DESCRIPTION Natural gas fired peaking turbine with a maximum generating capacity of 31.6 MW

DATE INSTALLED 01/2001

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				6.81	7.66
PM_{10}	attainment				
Sulfur Dioxide	attainment			2.78	3.13
Organic Compounds				4.37	4.92
Nitrogen Oxides	attainment			25.08	28.22
Carbon Monoxide	attainment			54.55	61.37
Lead	attainment				
Other:					
Formaldehyde				0.35	0.39
Sulfuric Acid		0.85	0.96		
Ammonia		6.62	7.45		

APPLICABLE FEDERAL RULES:

NSPS? GG NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?
Enter Determination Use of Selective Catalytic Reduction (SCR) and compliance with the terms and conditions of this permit

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? $1,467,111

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*? X YES ____ NO

IDENTIFY THE AIR CONTAMINANTS: Formaldehyde, Sulfuric Acid, Ammonia

NEW SOURCE REVIEW FORM B

PTI Number: 03-13497 Facility ID: 0387020378

FACILITY NAME PG&E Dispersed Generating Company, LLC

FACILITY DESCRIPTION 4 Natural Gas fired Peaking Turbines CITY/TWP Bowling Green

Emissions Unit ID: P004

Ohio EPA Permit to Install Information Form Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit hard copy items to Pam McGraner, AQM&P, DAPC, Central Office, and electronic files to airpti@epa.state.oh.us

Please fill out the following. If the checkbox does not work, replace it with an 'X'	Electronic	Additional information File Name Convention (your PTI # plus this letter)	Hard Copy	None
Calculations (required)	☐	0000000c.wpd	☒	
Modeling form/results	☐	0000000s.wpd	☒	☐
PTI Application (complete or partial)*	☐	0000000a.wpd	☒	☐
BAT Study	☐	0000000b.wpd	☒	☐
Other/misc.	☐	0000000t.wpd	☐	☒

*** Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.**

Please complete (see comment bubble to the left for additional instructions):

NSR Discussion

SEE PERMIT REVIEW FORM (CALCULATIONS)

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

☒ Synthetic Minor Determination and/or ☐ Netting Determination

Permit To Install 03-13497

A. Source Description

PG & E Dispersed Generating Company, LLC is proposing to install two more turbines at the peaking station in Bowling Green, Ohio, in Wood County. The facility will generate electricity during periods of high demand to alleviate potential capacity shortfalls and will consist of a total of 97.5 MW (4 natural gas fired electric generators). PG & E Dispersed Generating Company, LLC wishes to limit the annual hours of operation of each generator to avoid Title V and PSD permitting requirements.

B. Facility Emissions and Attainment Status

The facility will emit particulates, sulfur dioxide, organic compounds, nitrogen oxides, carbon monoxide, and hazardous air pollutants (formaldehyde). The pollutants that have a major source potential to emit are nitrogen oxides and carbon monoxide. At 8760 hours, the facility has potential emissions of 335.06 tons per year (tpy) of nitrogen oxides and 727.16 tpy of carbon monoxide.

C. Operating Limitations

PG & E Dispersed Generating Company, LLC has requested a federally enforceable limit on their annual operating hours for each generator at 2,250 hours per rolling 12-month period. This would restrict the facility's potential emissions to *116.01* tons of nitrogen oxides per rolling 12-month period and *197.33*

NEW SOURCE REVIEW FORM B

PTI Number: 03-13497 Facility ID: 0387020378

FACILITY NAME PG&E Dispersed Generating Company, LLC

FACILITY DESCRIPTION 4 Natural Gas fired Peaking Turbines CITY/TWP Bowling Green

Emissions Unit ID: P004

tons of carbon monoxide per rolling 12-month period.

D. Conclusion

By restricting annual hours of operation, the terms and conditions of this permit to install will limit the facility's nitrogen oxide and carbon monoxide emissions to less than PSD thresholds. Excursion reports will be required for each emissions unit to ensure compliance.

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

NONE

Please complete:

SUMMARY (for informational purposes only)

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant	Tons Per Year
NOx	*58.71*
PE	11.90
SO2	4.86
CO	*100.63*
VOC	7.64
Formaldehyde	*0.61*