



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
FULTON COUNTY**

**CERTIFIED MAIL**

Street Address:

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

Mailing Address:

Lazarus Gov. Center

**Application No: 03-13804**

**DATE: 10/15/2002**

Aquila Fulton County Power LLC  
Mike Frye  
1100 Walnut, Suite 3300  
Kansas City, MO 64106

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,

*Michael W. Ahern*

Michael W. Ahern, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

CC: USEPA

NWDO



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install  
Terms and Conditions**

**Issue Date: 10/15/2002  
Effective Date: 10/15/2002**

**FINAL PERMIT TO INSTALL 03-13804**

Application Number: 03-13804  
APS Premise Number: 0326000195  
Permit Fee: **\$1000**  
Name of Facility: Aquila Fulton County Power LLC  
Person to Contact: Mike Frye  
Address: 1100 Walnut, Suite 3300  
Kansas City, MO 64106

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**Metamora Road & Sylvania-Metamora Road**  
**Metamora, Ohio**

Description of proposed emissions unit(s):  
**Installation of four 80 MW NG fired 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 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 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.

## **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.

## **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. 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.

## **5. 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.

## **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**

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.

**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., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

**C. Permit To Install Summary of Allowable Emissions**

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

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

| <u>Pollutant</u> | <u>Tons Per Year</u> |
|------------------|----------------------|
| NO <sub>x</sub>  | 247.2                |
| CO               | 247.1                |
| VOC              | 49.5                 |
| SO <sub>2</sub>  | 9.1                  |
| PM               | 90.1                 |
| Formaldehyde     | 6.4                  |

**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**

1. The permit to install for these emissions units was evaluated based on the actual materials and the design parameters of the emissions units' 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 these emissions units using data from the permit to install application and the ICS model. The predicted 1-hour maximum ground-level concentration from the use of the ICS model was compared to the MAGLC. The following summarizes the results of the modeling for the "worst case" pollutants:

Pollutant: Formaldehyde\*

TLV (ug/m3): 272.69

Maximum Hourly Emission Rate (lbs/hr): 2.84

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 0.73

MAGLC (ug/m3): 6.49

\* This was modeled for emissions units P001-P005 combined.

Physical changes to or changes in the method of operation of the emissions units after their 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 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, 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.).

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.

2. 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 (e.g., 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.

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

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

| <u>Operations, Property,<br/>and/or Equipment</u>  | <u>Applicable Rules/Requirements</u> |
|--|--------------------------------------|
| P001 - simple cycle natural gas fired turbine (82MW nominal) with dry low NO <sub>x</sub> (DLN) combustion | OAC rule 3745-31-05 (D)              |
|  | OAC rule 3745-31-05 (A)(3)           |
|  | OAC rule 3745-17-07                  |
|  | 40 CFR Part 60, Subpart GG           |
|  | OAC rule 3745-18-06(F)               |
|  | OAC rule 3745-17-11(B)(4)            |
|  | OAC rule 3745-103                    |
|  | 40 CFR Part 75                       |

| Applicable Emissions<br>Limitations/Control<br>Measures  | tons of CO and 247.0 tons of NO <sub>x</sub><br>per rolling 365-day period, See<br>A.I.2.e. |
|--|---|
| See A.I.2.d.   | See A.I.2.a.  |
| 9 ppmvd nitrogen oxides<br>(NO <sub>x</sub> ) at 15% Oxygen, 36.0<br>lbs NO <sub>x</sub> /hr       | See A.I.2.c.<br>See A.I.2.a.  |
| 1.0 lb sulfur dioxide (SO <sub>2</sub> )/hr  | See A.I.2.a.  |
| 76.0 lbs carbon monoxide<br>(CO)/hr  | See A.I.2.b.<br>See A.I.2.b.  |
| 5.5 lbs volatile organic<br>compounds (VOC)/hr   |   |
| 10.0 lbs particulate emissions<br>(PE)/hr  |   |
| 0.7 lb formaldehyde/hr   |   |
| visible particulate emissions<br>shall not exceed 10 percent<br>opacity as a six-minute<br>average |   |
| 2.3 tons of SO <sub>2</sub> and 12.4<br>tons of VOC per rolling<br>12-month period                 |   |
| 22.5 tons PE and 1.6 tons of<br>Formaldehyde per rolling<br>12-month period, See<br>A.I.2.e.       |   |
| group emission limits from<br>P001, P002, P003, and<br>P004 combined of 247.0                      |   |

**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 emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). 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.d** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
- 2.e** The permit establishes the following federally enforceable restrictions:
  - i. short term (lb/hr) emission limitations for all pollutants, in effect during all periods except startup and shutdown;
  - ii. for P001, P002, P003, and P004 combined, 247.0 tons NO<sub>x</sub> and 247.0 tons CO per rolling 365-day period, for the purpose of avoiding Prevention of Significant Deterioration (PSD) permitting requirements (See A.I.2.f.).
  - iii. 4500 hrs of operation per year for each emission unit, for the purpose of avoiding 112(g) permitting requirements for Formaldehyde emissions (See A.II.1.).
- 2.f** The maximum annual NO<sub>x</sub> and CO emissions for emissions units P001, P002, P003, and P004 combined shall not exceed 247.0 tons NO<sub>x</sub> and 247.0 tons CO per rolling 365-day period.

To ensure federal enforceability of the NO<sub>x</sub> and CO emission restrictions during the first 12 calendar months of operation, the permittee shall not exceed the cumulative monthly emissions specified in the table:

| Month | NO <sub>x</sub> emissions, in tons | CO emissions, in tons |
|-------|------------------------------------|-----------------------|
| 1     | 100                                | 100                   |

Issued

Emissions Unit ID: P001

|      |     |     |
|------|-----|-----|
| 1-2  | 180 | 180 |
| 1-3  | 240 | 240 |
| 1-12 | 247 | 247 |

After the first 12 calendar months of operation, compliance with the ton per year restrictions shall be based on a rolling, 365-day summation. These annual restrictions include startup and shutdown periods.

The first 12 calendar months of operation shall begin on the date when any one of emission units P001, P002, P003, or P004 is set in operation for any purpose.

**II. Operational Restrictions**

1. The maximum annual operating hours for this emissions units shall not exceed 4,500 hours\* per rolling 12-month period.

To ensure federal enforceability during the first 12 calendar months of operation the permittee shall not exceed the cumulative hourly restrictions specified in the following table:

| Month | Hours of Operation |
|-------|--------------------|
| 1     | 700                |
| 1-2   | 1,400              |
| 1-3   | 2,100              |
| 1-4   | 2,800              |

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|      |       |
|------|-------|
| 1-5  | 3,500 |
| 1-6  | 4,200 |
| 1-12 | 4,500 |

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

The first 12 calendar months of operation shall begin on the date when this emission units is set in operation for any purpose.

2. This emissions unit shall have a maximum allowable heat input rate of 1003 MMBtu/hr, and except for start-up and shut-down, shall not be operated at less than 75% load.
3. The permittee shall burn only pipeline quality natural gas in this emissions unit. The maximum sulfur content of the natural gas shall not exceed 0.0068 percent by weight.

### **III. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain daily records of the following information for emission units P001, P002, P003, and P004 combined:
  - a. NO<sub>x</sub> and CO emissions, in lbs;
  - b. during the first 12 calendar months of operation, the cumulative CO and NO<sub>x</sub> emissions for each calendar month, in tons; and
  - c. beginning the first day after the first 12 calendar months of operation, the rolling 365-day summation of the daily NO<sub>x</sub> and daily CO emissions, in tons.

The daily emission rates shall be determined using Continuous Emission Monitoring (CEM) data required in A.III.4.

2. 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 cumulative operating hours for each calendar month;
  - c. beginning the first month after the first 12 calendar months of operation, the rolling

12-month summation of the operating hours;

- d. during the first 12 calendar months of operation, the cumulative PE, SO<sub>2</sub>, VOC, and Formaldehyde emissions, in tons per month; and
- e. beginning after the first 12 calendar months of operation, the rolling 12-month summation of PE, SO<sub>2</sub>, VOC, and Formaldehyde emissions, in tons.

The monthly emissions shall be determined using the hourly records required in Section A.III.2., in conjunction with the hourly emission rates, determined by the most recent testing/emissions data available for each pollutant.

3. 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, D 4084-82, 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. Owners, operators, or fuel vendors may develop custom fuel schedules for the determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Ohio EPA, Northwest District Office before they can be used.
4. The permittee shall install, operate, and maintain equipment to continuously monitor\* and record NO<sub>x</sub> and CO from this emissions unit, in the units established in this permit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 40 or CFR Part 75.

The permittee shall maintain records of all data obtained by the continuous NO<sub>x</sub> and CO monitoring systems including, but not limited to, parts per million NO<sub>x</sub> on an instantaneous (one-minute) basis, emissions of NO<sub>x</sub> and CO in the units established in this permit (with an hourly block 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<sub>x</sub>

**Issued**

Emissions Unit ID: P001

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

5. The permittee shall install, operate, and maintain equipment to continuously monitor and record the O<sub>2</sub> from this emissions unit in percent O<sub>2</sub>. Such continuous monitoring and recording

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equipment shall comply with the requirements specified in 40 CFR Part 60.13 or as approved by the Ohio EPA, Central Office. The permittee may install a CO<sub>2</sub> monitor in lieu of an O<sub>2</sub> monitor with prior approval from the Ohio EPA, Central Office.

The permittee shall maintain records of all data obtained by the continuous O<sub>2</sub> monitoring system including, but not limited to, percent O<sub>2</sub> on an instantaneous (one-minute) basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

6. The information management system for this emissions unit shall be capable of monitoring and recording the fuel flow in million cu ft and hours of operation.
7. When the emissions unit is in operation and the nitrogen oxides and/or carbon monoxide continuous monitoring system(s) is not operational, the permittee shall provide missing nitrogen oxide and/or carbon monoxide data consistent with the provisions listed in 40 CFR Part 75.
8. For each day during which the permittee burns a fuel other than pipeline quality natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

#### **IV. Reporting Requirements**

1. The permittee shall submit deviation reports to the Ohio EPA, Northwest District Office which identify all exceedances of the following:
  - a. for the first 12 calendar months of operation, all exceedances of the maximum NO<sub>x</sub> and CO emission levels from emissions units P001, P002, P003, and P004 combined;
  - b. for the first 12 calendar months of operation, all exceedances of the maximum allowable cumulative operating hours;
  - c. after the first 12 calendar months of operation, all exceedances of the rolling 365-day summation of the NO<sub>x</sub> and CO emission limitations for emissions units P001, P002, P003, and P004 combined, and;
  - d. after the first 12 calendar months of operation all exceedances of the rolling 12-month operating hours limitation.
2. 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 Ohio EPA Northwest District Office documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective

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actions taken (if any), of all instances of NO<sub>x</sub> or CO values in excess of the applicable limits specified in the terms and conditions of this permit.

The permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA Northwest District Office documenting any continuous NO<sub>x</sub>, CO, or O<sub>2</sub> 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. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

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 the data obtained during the previous calendar quarter.

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

3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than pipeline quality natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
4. The permittee shall submit deviation (excursion) reports that any fuel sampling which indicates the sulfur content of the fuel exceeds the restriction specified in condition A.II.3. Each report shall be submitted within 30 days after the deviation occurs.
5. In lieu of the excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess emissions reports from this emissions unit in accordance with this permit.
6. These reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.
7. Pursuant to NSPS, the permittee is hereby advised of the requirement to report the following at

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the appropriate times:

- a. Construction date (no later than 30 days after such date);

- b. Actual start-up date (within 15 days after such date); and,
- c. Date of performance testing (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 EPA Northwest District Office  
347 North Dunbridge Road  
Bowling Green, OH 43402

## 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 capacity at which the emissions unit will be operated, but not later than 180 days after the emission unit is placed into operation for any purpose.
  - b. The emission testing shall be conducted to demonstrate compliance with the NO<sub>x</sub> outlet concentration, lbs/MMBtu heat input limitation for SO<sub>2</sub>\* and PE, and the mass emissions limitations for NO<sub>x</sub>, CO, SO<sub>2</sub>\*, VOC, Formaldehyde, and PE.
  - c. The following test method(s) shall be employed to demonstrate compliance with the above emissions limitations: for NO<sub>x</sub>, Method 20 of 40 CFR Part 60, Appendix A; for PE, Method 5 of 40 CFR Part 60, Appendix A; for CO, Method 10 of 40 CFR Part 60, Appendix A; for Formaldehyde, SW-846 Method 0011; for VOC, Method 25 or 25A of 40 CFR Part 60, Appendix A; and for SO<sub>2</sub>, Method 6 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.
  - d. The testing shall be performed at 100% load, unless otherwise specified or approved by

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the Ohio EPA, Northwest District Office.

- 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 tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission tests.
  - f. Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the tests, 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 tests 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. As part of the stack test report, it is necessary to provide the identification of peak load of the unit, as defined by 40 CFR Part 60, Subpart GG and the average load that the emissions unit was operated during the test.
  - i. 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 SO<sub>2</sub> emissions testing required above, the permittee may sample the Sulfur content of the fuel as provided for in 40 CFR Part 60, 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<sub>x</sub> and CO monitoring systems pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6\*. Personnel from the Ohio EPA, Northwest District Office 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, copies of all the test results shall be submitted within 30 days after the test is completed. Copies of the test results shall be sent to the Ohio EPA, Northwest District Office and the Ohio EPA, Central Office. Certification of the continuous NO<sub>x</sub> and dual-range CO monitoring systems shall be granted upon determination by the Ohio EPA,

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Central Office that the system meets all requirements of ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6\*.

\* The permittee may use 40 CFR Part 60, Appendix B, Performance Specification 2 and performance Specification 4 in conjunction with a fuel flow monitor as described in 40 CFR Part 75 to meet these requirements, if approved by the Ohio EPA, Central Office.

3. 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 O<sub>2</sub> monitoring systems pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 3. Personnel from the Ohio EPA, Northwest District Office 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 within 30 days after the test is completed. Copies of the test results shall be sent to the Ohio EPA, Northwest District Office and the Ohio EPA, Central Office. Certification of the continuous O<sub>2</sub> 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 3.
4. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation  
9 ppmvd NO<sub>x</sub> at 15% oxygen  
36.0 lbs NO<sub>x</sub>/hr  
  
Applicable Compliance Method  
Compliance with the allowable outlet concentration and the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1. and continuous monitoring requirements as specified in A.III.4.
  - b. Emission Limitation  
76.0 lbs CO/hour  
  
Applicable Compliance Method  
Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1. and continuous monitoring requirements as specified in A.III.4.
  - c. Emission Limitation  
1.0 lb SO<sub>2</sub>/hr  
  
Applicable Compliance Method

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Compliance with the lb/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

- d. Emission Limitation  
10.0 lbs PE/hr

Applicable Compliance Method

Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

- e. Emission Limitation  
5.5 lbs VOC/hr

Applicable Compliance Method

Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

- f. Emission Limitation  
0.7 lbs Formaldehyde/hr

Applicable Compliance Method

Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

- g. Emission Limitation  
247.0 tons of CO per rolling 365-day period for P001-P004 combined  
247.0 tons of NO<sub>x</sub> per rolling 365-day period for P001-P004 combined

Applicable Compliance Method

Compliance with the annual limitation shall be demonstrated by the record keeping as specified in Section A.III.1.

- h. Emission Limitation  
2.3 tons of SO<sub>2</sub> per rolling 12-month period  
12.4 tons of VOC per rolling 12-month period  
22.5 tons PE per rolling 12-month period  
1.6 tons of Formaldehyde per rolling 12-month period

Applicable Compliance Method

Compliance with the annual limitation shall be demonstrated by the record keeping as specified in Section A.III.2.

- i. Emission Limitation

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

Applicable Compliance Method

If required, compliance with the visible emission limitation established by this permit shall be determined by Method 9 of 40 CFR Part 60 Appendix A.

**VI. Miscellaneous Requirements**

1. Should this emissions unit be converted from a simple cycle turbine to a combined cycle turbine in the future, a new BAT determination would be required.
2. Prior to the installation of the continuous NO<sub>x</sub> and CO monitoring systems, 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 as described in Section A.V.1.) for approval by the Ohio EPA, Central Office.

Prior to the installation of the continuous O<sub>2</sub> 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.

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 NO<sub>x</sub>, CO, and O<sub>2</sub> monitoring systems designed to ensure continuous valid and representative readings of NO<sub>x</sub>, CO, and O<sub>2</sub> emissions in the units established in this permit. The plan shall follow the requirements specified by the Ohio EPA (typically compliance with portions of 40 CFR Part 60 Appendix F or as approved by the Ohio EPA, Central Office). The quality assurance/quality control plan and a logbook dedicated to the continuous NO<sub>x</sub>, CO, and O<sub>2</sub> monitoring systems must be kept on site and available for inspection during regular office hours.

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

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

| <u>Operations, Property,<br/>and/or Equipment</u>                                | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control<br/>Measures</u> |
|--|--------------------------------------|--|
| P001 - simple cycle natural gas fired turbine (82MW nominal) with DLN combustion |                                      |  |

**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**

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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.

| <u>Operations, Property, and/or Equipment</u>  | <u>Applicable Rules/Requirements</u>   |
|--|--|
| P002 - simple cycle natural gas fired turbine (82MW nominal) with dry low NO <sub>x</sub> (DLN) combustion | OAC rule 3745-31-05 (A)(3)<br><br>OAC Rule 3745-31-05 (D)<br><br>OAC rule 3745-17-07<br>40 CFR Part 60, Subpart GG<br>OAC rule 3745-18-06(F)<br>OAC rule 3745-17-11(B)(4)<br>OAC rule 3745-103<br>40 CFR Part 75 |

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| <u>Applicable Emissions<br/>Limitations/Control<br/>Measures</u>                          |                              |
|---|------------------------------|
| See A.I.2.d.  | See A.I.2.a.                 |
| 9 ppmvd nitrogen oxides (NO <sub>x</sub> ) at 15% Oxygen, 36.0 lbs NO <sub>x</sub> /hr    | See A.I.2.c.<br>See A.I.2.a. |
| 1.0 lb sulfur dioxide (SO <sub>2</sub> )/hr   | See A.I.2.a.                 |
| 76.0 lbs carbon monoxide (CO)/hr  | See A.I.2.b.<br>See A.I.2.b. |
| 5.5 lbs volatile organic compounds (VOC)/hr   |                              |
| 10.0 lbs particulate emissions (PE)/hr  |                              |
| 0.7 lb formaldehyde/hr  |                              |
| visible particulate emissions shall not exceed 10 percent opacity as a six-minute average |                              |
| 2.3 tons of SO <sub>2</sub> and 12.4 tons of VOC per rolling 12-month period              |                              |
| 22.5 tons PE and 1.6 tons of Formaldehyde per rolling 12-month period, See A.I.2.e.       |                              |
| group emission limits from P001, P002, P003, and P004 combined of 247.0                   |                              |

**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 emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). 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.d** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
- 2.e** The permit establishes the following federally enforceable restrictions:
- i. short term (lb/hr) emission limitations for all pollutants, in effect during all periods except startup and shutdown;
  - ii. for P001, P002, P003, and P004 combined, 247.0 tons NO<sub>x</sub> and 247.0 tons CO per rolling 365-day period, for the purpose of avoiding Prevention of Significant Deterioration (PSD) permitting requirements (See A.I.2.f.).
  - iii. 4500 hrs of operation per year for each emission unit, for the purpose of avoiding 112(g) permitting requirements for Formaldehyde emissions (See A.II.1.).
- 2.f** The maximum annual NO<sub>x</sub> and CO emissions for emissions units P001, P002, P003, and P004 combined shall not exceed 247.0 tons NO<sub>x</sub> and 247.0 tons CO per rolling 365-day period.

To ensure federal enforceability of the NO<sub>x</sub> and CO emission restrictions during the first 12 calendar months of operation, the permittee shall not exceed the cumulative monthly emissions specified in the table:

| Month | NO <sub>x</sub> emissions, in tons | CO emissions, in tons |
|-------|------------------------------------|-----------------------|
| 1     | 100                                | 100                   |

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|      |     |     |
|------|-----|-----|
| 1-2  | 180 | 180 |
| 1-3  | 240 | 240 |
| 1-12 | 247 | 247 |

After the first 12 calendar months of operation, compliance with the ton per year restrictions shall be based on a rolling, 365-day summation. These annual restrictions include startup and shutdown periods.

The first 12 calendar months of operation shall begin on the date when any one of emission units P001, P002, P003, or P004 is set in operation for any purpose.

**II. Operational Restrictions**

1. The maximum annual operating hours for this emissions units shall not exceed 4,500 hours\* per rolling 12-month period.

To ensure federal enforceability during the first 12 calendar months of operation the permittee shall not exceed the cumulative hourly restrictions specified in the following table:

| Month | Hours of Operation |
|-------|--------------------|
| 1     | 700                |
| 1-2   | 1,400              |
| 1-3   | 2,100              |
| 1-4   | 2,800              |

|      |       |
|------|-------|
| 1-5  | 3,500 |
| 1-6  | 4,200 |
| 1-12 | 4,500 |

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

The first 12 calendar months of operation shall begin on the date when this emission units is set in operation for any purpose.

2. This emissions unit shall have a maximum allowable heat input rate of 1524 MMBtu/hr, and except for start-up and shut-down, shall not be operated at less than 75% load.
3. The permittee shall burn only pipeline quality natural gas in this emissions unit. The maximum sulfur content of the natural gas shall not exceed 0.0068 percent by weight.

### III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain daily records of the following information for emission units P001, P002, P003, and P004 combined:
  - a. NO<sub>x</sub> and CO emissions, in lbs;
  - b. during the first 12 calendar months of operation, the cumulative CO and NO<sub>x</sub> emissions for each calendar month, in tons; and
  - c. beginning the first day after the first 12 calendar months of operation, the rolling 365-day summation of the daily NO<sub>x</sub> and daily CO emissions, in tons.

The daily emission rates shall be determined using Continuous Emission Monitoring (CEM) data required in A.III.4.
2. 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 cumulative operating hours for each calendar month;
  - c. beginning the first month after the first 12 calendar months of operation, the rolling

12-month summation of the operating hours;

- d. during the first 12 calendar months of operation, the cumulative PE, SO<sub>2</sub>, VOC, and Formaldehyde emissions, in tons per month; and
- e. beginning after the first 12 calendar months of operation, the rolling 12-month summation of PE, SO<sub>2</sub>, VOC, and Formaldehyde emissions, in tons.

The monthly emissions shall be determined using the hourly records required in Section A.III.2., in conjunction with the hourly emission rates, determined by the most recent testing/emissions data available for each pollutant.

3. 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, D 4084-82, 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. Owners, operators, or fuel vendors may develop custom fuel schedules for the determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Ohio EPA, Northwest District Office before they can be used.
4. The permittee shall install, operate, and maintain equipment to continuously monitor\* and record NO<sub>x</sub> and CO from this emissions unit, in the units established in this permit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 40 or CFR Part 75.

The permittee shall maintain records of all data obtained by the continuous NO<sub>x</sub> and CO monitoring systems including, but not limited to, parts per million NO<sub>x</sub> on an instantaneous (one-minute) basis, emissions of NO<sub>x</sub> and CO in the units established in this permit (with an hourly block 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<sub>x</sub>

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

5. The permittee shall install, operate, and maintain equipment to continuously monitor and record the O<sub>2</sub> from this emissions unit in percent O<sub>2</sub>. Such continuous monitoring and recording

equipment shall comply with the requirements specified in 40 CFR Part 60.13 or as approved by the Ohio EPA, Central Office. The permittee may install a CO<sub>2</sub> monitor in lieu of an O<sub>2</sub> monitor with prior approval from the Ohio EPA, Central Office.

The permittee shall maintain records of all data obtained by the continuous O<sub>2</sub> monitoring system including, but not limited to, percent O<sub>2</sub> on an instantaneous (one-minute) basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

6. The information management system for this emissions unit shall be capable of monitoring and recording the fuel flow in million cu ft and hours of operation.
7. When the emissions unit is in operation and the nitrogen oxides and/or carbon monoxide continuous monitoring system(s) is not operational, the permittee shall provide missing nitrogen oxide and/or carbon monoxide data consistent with the provisions listed in 40 CFR Part 75.
8. For each day during which the permittee burns a fuel other than pipeline quality natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

#### IV. Reporting Requirements

1. The permittee shall submit deviation reports to the Ohio EPA, Northwest District Office which identify all exceedances of the following:
  - a. for the first 12 calendar months of operation, all exceedances of the maximum NO<sub>x</sub> and CO emission levels from emissions units P001, P002, P003, and P004 combined;
  - b. for the first 12 calendar months of operation, all exceedances of the maximum allowable cumulative operating hours;
  - c. after the first 12 calendar months of operation, all exceedances of the rolling 365-day summation of the NO<sub>x</sub> and CO emission limitations for emissions units P001, P002, P003, and P004 combined, and;
  - d. after the first 12 calendar months of operation all exceedances of the rolling 12-month operating hours limitation.
2. 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 Ohio EPA Northwest District Office documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective

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actions taken (if any), of all instances of NO<sub>x</sub> or CO values in excess of the applicable limits specified in the terms and conditions of this permit.

The permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA Northwest District Office documenting any continuous NO<sub>x</sub>, CO, or O<sub>2</sub> 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. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

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 the data obtained during the previous calendar quarter.

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

3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than pipeline quality natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
4. The permittee shall submit deviation (excursion) reports that any fuel sampling which indicates the sulfur content of the fuel exceeds the restriction specified in condition A.II.3. Each report shall be submitted within 30 days after the deviation occurs.
5. In lieu of the excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess emissions reports from this emissions unit in accordance with this permit.
6. These reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.
7. Pursuant to NSPS, the permittee is hereby advised of the requirement to report the following at

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the appropriate times:

- a. Construction date (no later than 30 days after such date);

- b. Actual start-up date (within 15 days after such date); and,
- c. Date of performance testing (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 EPA Northwest District Office  
347 North Dunbridge Road  
Bowling Green, OH 43402

## 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 capacity at which the emissions unit will be operated, but not later than 180 days after the emission unit is placed into operation for any purpose.
  - b. The emission testing shall be conducted to demonstrate compliance with the NO<sub>x</sub> outlet concentration, lbs/MMBtu heat input limitation for SO<sub>2</sub>\* and PE, and the mass emissions limitations for NO<sub>x</sub>, CO, SO<sub>2</sub>\*, VOC, Formaldehyde, and PE.
  - c. The following test method(s) shall be employed to demonstrate compliance with the above emissions limitations: for NO<sub>x</sub>, Method 20 of 40 CFR Part 60, Appendix A; for PE, Method 5 of 40 CFR Part 60, Appendix A; for CO, Method 10 of 40 CFR Part 60, Appendix A; for Formaldehyde, SW-846 Method 0011; for VOC, Method 25 or 25A of 40 CFR Part 60, Appendix A; and for SO<sub>2</sub>, Method 6 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.
  - d. The testing shall be performed at 100% load, unless otherwise specified or approved by

the Ohio EPA, Northwest District Office.

- 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 tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission tests.
  - f. Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the tests, 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 tests 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. As part of the stack test report, it is necessary to provide the identification of peak load of the unit, as defined by 40 CFR Part 60, Subpart GG and the average load that the emissions unit was operated during the test.
  - i. 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 SO<sub>2</sub> emissions testing required above, the permittee may sample the Sulfur content of the fuel as provided for in 40 CFR Part 60, 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<sub>x</sub> and CO monitoring systems pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6\*. Personnel from the Ohio EPA, Northwest District Office 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, copies of all the test results shall be submitted within 30 days after the test is completed. Copies of the test results shall be sent to the Ohio EPA,

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Northwest District Office and the Ohio EPA, Central Office. Certification of the continuous NO<sub>x</sub> and dual-range CO monitoring systems 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\*.

\* The permittee may use 40 CFR Part 60, Appendix B, Performance Specification 2 and performance Specification 4 in conjunction with a fuel flow monitor as described in 40 CFR Part 75 to meet these requirements, if approved by the Ohio EPA, Central Office.

3. 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 O<sub>2</sub> monitoring systems pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 3. Personnel from the Ohio EPA, Northwest District Office 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 within 30 days after the test is completed. Copies of the test results shall be sent to the Ohio EPA, Northwest District Office and the Ohio EPA, Central Office. Certification of the continuous O<sub>2</sub> 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 3.
4. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation  
9 ppmvd NO<sub>x</sub> at 15% oxygen  
36.0 lbs NO<sub>x</sub>/hr  
  
Applicable Compliance Method  
Compliance with the allowable outlet concentration and the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1. and continuous monitoring requirements as specified in A.III.4.
  - b. Emission Limitation  
76.0 lbs CO/hour  
  
Applicable Compliance Method  
Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1. and continuous monitoring requirements as specified in A.III.4.
  - c. Emission Limitation  
1.0 lb SO<sub>2</sub>/hr

Applicable Compliance Method

Compliance with the lb/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

- d. Emission Limitation  
10.0 lbs PE/hr

Applicable Compliance Method

Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

e. Emission Limitation

5.5 lbs VOC/hr

Applicable Compliance Method

Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

f. Emission Limitation

0.7 lbs Formaldehyde/hr

Applicable Compliance Method

Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

g. Emission Limitation

247.0 tons of CO per rolling 365-day period for P001-P004 combined

247.0 tons of NO<sub>x</sub> per rolling 365-day period for P001-P004 combined

Applicable Compliance Method

Compliance with the annual limitation shall be demonstrated by the record keeping as specified in Section A.III.1.

h. Emission Limitation

2.3 tons of SO<sub>2</sub> per rolling 12-month period

12.4 tons of VOC per rolling 12-month period

22.5 tons PE per rolling 12-month period

1.6 tons of Formaldehyde per rolling 12-month period

Applicable Compliance Method

Compliance with the annual limitation shall be demonstrated by the record keeping as specified in Section A.III.2.

i. Emission Limitation

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

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Applicable Compliance Method

If required, compliance with the visible emission limitation established by this permit shall be determined by Method 9 of 40 CFR Part 60 Appendix A.

**VI. Miscellaneous Requirements**

1. Should this emissions unit be converted from a simple cycle turbine to a combined cycle turbine in the future, a new BAT determination would be required.
2. Prior to the installation of the continuous NO<sub>x</sub> and CO monitoring systems, 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 as described in Section A.V.1.) for approval by the Ohio EPA, Central Office.

Prior to the installation of the continuous O<sub>2</sub> 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.

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 NO<sub>x</sub>, CO, and O<sub>2</sub> monitoring systems designed to ensure continuous valid and representative readings of NO<sub>x</sub>, CO, and O<sub>2</sub> emissions in the units established in this permit. The plan shall follow the requirements specified by the Ohio EPA (typically compliance with portions of 40 CFR Part 60 Appendix F or as approved by the Ohio EPA, Central Office). The quality assurance/quality control plan and a logbook dedicated to the continuous NO<sub>x</sub>, CO, and O<sub>2</sub> monitoring systems must be kept on site and available for inspection during regular office hours.

**B. State Only Enforceable Section**

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

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

| <u>Operations, Property, and/or Equipment</u>                                    | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|--|--------------------------------------|--|
| P002 - simple cycle natural gas fired turbine (82MW nominal) with DLN combustion |                                      |  |

**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**

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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.

| <u>Operations, Property, and/or Equipment</u>  | <u>Applicable Rules/Requirements</u>   |
|--|--|
| P003 - simple cycle natural gas fired turbine (82MW nominal) with dry low NO <sub>x</sub> (DLN) combustion | OAC rule 3745-31-05 (A)(3)<br><br>OAC rule 3745-31-05 (D)<br><br>OAC rule 3745-17-07<br>40 CFR Part 60, Subpart GG<br>OAC rule 3745-18-06(F)<br>OAC rule 3745-17-11(B)(4)<br>OAC rule 3745-103<br>40 CFR Part 75 |

| Applicable Emissions<br>Limitations/Control<br>Measures  | tons of CO and 247.0 tons of NO <sub>x</sub><br>per rolling 365-day period, See<br>A.I.2.e. |
|--|---|
| See A.I.2.d.   | See A.I.2.a.  |
| 9 ppmvd nitrogen oxides<br>(NO <sub>x</sub> ) at 15% Oxygen, 36.0<br>lbs NO <sub>x</sub> /hr       | See A.I.2.c.<br>See A.I.2.a.  |
| 1.0 lb sulfur dioxide (SO <sub>2</sub> )/hr  | See A.I.2.a.  |
| 76.0 lbs carbon monoxide<br>(CO)/hr  | See A.I.2.b.<br>See A.I.2.b.  |
| 5.5 lbs volatile organic<br>compounds (VOC)/hr   |   |
| 10.0 lbs particulate emissions<br>(PE)/hr  |   |
| 0.7 lb formaldehyde/hr   |   |
| visible particulate emissions<br>shall not exceed 10 percent<br>opacity as a six-minute<br>average |   |
| 2.3 tons of SO <sub>2</sub> and 12.4<br>tons of VOC per rolling<br>12-month period                 |   |
| 22.5 tons PE and 1.6 tons of<br>Formaldehyde per rolling<br>12-month period, See<br>A.I.2.e.       |   |
| group emission limits from<br>P001, P002, P003, and<br>P004 combined of 247.0                      |   |

**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 emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). 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.d** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
- 2.e** The permit establishes the following federally enforceable restrictions:
- i. short term (lb/hr) emission limitations for all pollutants, in effect during all periods except startup and shutdown;
  - ii. for P001, P002, P003, and P004 combined, 247.0 tons NO<sub>x</sub> and 247.0 tons CO per rolling 365-day period, for the purpose of avoiding Prevention of Significant Deterioration (PSD) permitting requirements (See A.I.2.f.).
  - iii. 4500 hrs of operation per year for each emission unit, for the purpose of avoiding 112(g) permitting requirements for Formaldehyde emissions (See A.II.1.).
- 2.f** The maximum annual NO<sub>x</sub> and CO emissions for emissions units P001, P002, P003, and P004 combined shall not exceed 247.0 tons NO<sub>x</sub> and 247.0 tons CO per rolling 365-day period.

To ensure federal enforceability of the NO<sub>x</sub> and CO emission restrictions during the first 12 calendar months of operation, the permittee shall not exceed the cumulative monthly emissions specified in the table:

| Month | NO <sub>x</sub> emissions, in tons | CO emissions, in tons |
|-------|------------------------------------|-----------------------|
| 1     | 100                                | 100                   |

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|      |     |     |
|------|-----|-----|
| 1-2  | 180 | 180 |
| 1-3  | 240 | 240 |
| 1-12 | 247 | 247 |

After the first 12 calendar months of operation, compliance with the annual ton per year restrictions shall be based on a rolling, 365-day summation. These annual restrictions include startup and shutdown periods.

The first 12 calendar months of operation shall begin on the date when any one of emission units P001, P002, P003, or P004 is set in operation for any purpose.

**II. Operational Restrictions**

1. The maximum annual operating hours for this emissions units shall not exceed 4,500 hours\* per rolling 12-month period.

To ensure federal enforceability during the first 12 calendar months of operation the permittee shall not exceed the cumulative hourly restrictions specified in the following table:

| Month | Hours of Operation |
|-------|--------------------|
| 1     | 700                |
| 1-2   | 1,400              |
| 1-3   | 2,100              |
| 1-4   | 2,800              |

|      |       |
|------|-------|
| 1-5  | 3,500 |
| 1-6  | 4,200 |
| 1-12 | 4,500 |

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

The first 12 calendar months of operation shall begin on the date when this emission units is set in operation for any purpose.

2. This emissions unit shall have a maximum allowable heat input rate of 1524 MMBtu/hr, and except for start-up and shut-down, shall not be operated at less than 75% load.
3. The permittee shall burn only pipeline quality natural gas in this emissions unit. The maximum sulfur content of the natural gas shall not exceed 0.0068 percent by weight.

### III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain daily records of the following information for emission units P001, P002, P003, and P004 combined:
  - a. NO<sub>x</sub> and CO emissions, in lbs;
  - b. during the first 12 calendar months of operation, the cumulative CO and NO<sub>x</sub> emissions for each calendar month, in tons; and
  - c. beginning the first day after the first 12 calendar months of operation, the rolling 365-day summation of the daily NO<sub>x</sub> and daily CO emissions, in tons.

The daily emission rates shall be determined using Continuous Emission Monitoring (CEM) data required in A.III.4.
2. 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 cumulative operating hours for each calendar month;
  - c. beginning the first month after the first 12 calendar months of operation, the rolling 12-month summation of the operating hours;

- d. during the first 12 calendar months of operation, the cumulative PE, SO<sub>2</sub>, VOC, and Formaldehyde emissions, in tons per month; and
- e. beginning after the first 12 calendar months of operation, the rolling 12-month summation of PE, SO<sub>2</sub>, VOC, and Formaldehyde emissions, in tons.

The monthly emissions shall be determined using the hourly records required in Section A.III.2., in conjunction with the hourly emission rates, determined by the most recent testing/emissions data available for each pollutant.

3. 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, D 4084-82, 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. Owners, operators, or fuel vendors may develop custom fuel schedules for the determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Ohio EPA, Northwest District Office before they can be used.
4. The permittee shall install, operate, and maintain equipment to continuously monitor\* and record NO<sub>x</sub> and CO from this emissions unit, in the units established in this permit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 40 or CFR Part 75.

The permittee shall maintain records of all data obtained by the continuous NO<sub>x</sub> and CO monitoring systems including, but not limited to, parts per million NO<sub>x</sub> on an instantaneous (one-minute) basis, emissions of NO<sub>x</sub> and CO in the units established in this permit (with an hourly block 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<sub>x</sub> may be performed in lieu of monitoring the nitrogen content of the fuels being fired in the turbine,

as required by 40 CFR 60.334(b).

5. The permittee shall install, operate, and maintain equipment to continuously monitor and record the O<sub>2</sub> from this emissions unit in percent O<sub>2</sub>. Such continuous monitoring and recording

equipment shall comply with the requirements specified in 40 CFR Part 60.13 or as approved by the Ohio EPA, Central Office. The permittee may install a CO<sub>2</sub> monitor in lieu of an O<sub>2</sub> monitor with prior approval from the Ohio EPA, Central Office.

The permittee shall maintain records of all data obtained by the continuous O<sub>2</sub> monitoring system including, but not limited to, percent O<sub>2</sub> on an instantaneous (one-minute) basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

6. The information management system for this emissions unit shall be capable of monitoring and recording the fuel flow in million cu ft and hours of operation.
7. When the emissions unit is in operation and the nitrogen oxides and/or carbon monoxide continuous monitoring system(s) is not operational, the permittee shall provide missing nitrogen oxide and/or carbon monoxide data consistent with the provisions listed in 40 CFR Part 75.
8. For each day during which the permittee burns a fuel other than pipeline quality natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

#### IV. Reporting Requirements

1. The permittee shall submit deviation reports to the Ohio EPA, Northwest District Office which identify all exceedances of the following:
  - a. for the first 12 calendar months of operation, all exceedances of the maximum NO<sub>x</sub> and CO emission levels from emissions units P001, P002, P003, and P004 combined;
  - b. for the first 12 calendar months of operation, all exceedances of the maximum allowable cumulative operating hours;
  - c. after the first 12 calendar months of operation, all exceedances of the rolling 365-day summation of the NO<sub>x</sub> and CO emission limitations for emissions units P001, P002, P003, and P004 combined, and;
  - d. after the first 12 calendar months of operation all exceedances of the rolling 12-month operating hours limitation.
2. 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 Ohio EPA Northwest District Office documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective

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actions taken (if any), of all instances of NO<sub>x</sub> or CO values in excess of the applicable limits specified in the terms and conditions of this permit.

The permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA Northwest District Office documenting any continuous NO<sub>x</sub>, CO, or O<sub>2</sub> 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. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

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 the data obtained during the previous calendar quarter.

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

3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than pipeline quality natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
4. The permittee shall submit deviation (excursion) reports that any fuel sampling which indicates the sulfur content of the fuel exceeds the restriction specified in condition A.II.3. Each report shall be submitted within 30 days after the deviation occurs.
5. In lieu of the excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess emissions reports from this emissions unit in accordance with this permit.
6. These reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.
7. Pursuant to NSPS, the permittee is hereby advised of the requirement to report the following at

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the appropriate times:

- a. Construction date (no later than 30 days after such date);

- b. Actual start-up date (within 15 days after such date); and,
- c. Date of performance testing (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 EPA Northwest District Office  
347 North Dunbridge Road  
Bowling Green, OH 43402

## 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 capacity at which the emissions unit will be operated, but not later than 180 days after the emission unit is placed into operation for any purpose.
  - b. The emission testing shall be conducted to demonstrate compliance with the NO<sub>x</sub> outlet concentration, lbs/MMBtu heat input limitation for SO<sub>2</sub>\* and PE, and the mass emissions limitations for NO<sub>x</sub>, CO, SO<sub>2</sub>\*, VOC, Formaldehyde, and PE.
  - c. The following test method(s) shall be employed to demonstrate compliance with the above emissions limitations: for NO<sub>x</sub>, Method 20 of 40 CFR Part 60, Appendix A; for PE, Method 5 of 40 CFR Part 60, Appendix A; for CO, Method 10 of 40 CFR Part 60, Appendix A; for Formaldehyde, SW-846 Method 0011; for VOC, Method 25 or 25A of 40 CFR Part 60, Appendix A; and for SO<sub>2</sub>, Method 6 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.
  - d. The testing shall be performed at 100% load, unless otherwise specified or approved by

the Ohio EPA, Northwest District Office.

- 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 tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission tests.
  - f. Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the tests, 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 tests 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. As part of the stack test report, it is necessary to provide the identification of peak load of the unit, as defined by 40 CFR Part 60, Subpart GG and the average load that the emissions unit was operated during the test.
  - i. 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 SO<sub>2</sub> emissions testing required above, the permittee may sample the Sulfur content of the fuel as provided for in 40 CFR Part 60, 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<sub>x</sub> and CO monitoring systems pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6\*. Personnel from the Ohio EPA, Northwest District Office 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, copies of all the test results shall be submitted within 30 days after the test is completed. Copies of the test results shall be sent to the Ohio EPA,

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Northwest District Office and the Ohio EPA, Central Office. Certification of the continuous NO<sub>x</sub> and dual-range CO monitoring systems 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\*.

\* The permittee may use 40 CFR Part 60, Appendix B, Performance Specification 2 and performance Specification 4 in conjunction with a fuel flow monitor as described in 40 CFR Part 75 to meet these requirements, if approved by the Ohio EPA, Central Office.

3. 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 O<sub>2</sub> monitoring systems pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 3. Personnel from the Ohio EPA, Northwest District Office 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 within 30 days after the test is completed. Copies of the test results shall be sent to the Ohio EPA, Northwest District Office and the Ohio EPA, Central Office. Certification of the continuous O<sub>2</sub> 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 3.
4. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation  
9 ppmvd NO<sub>x</sub> at 15% oxygen  
36.0 lbs NO<sub>x</sub>/hr  
  
Applicable Compliance Method  
Compliance with the allowable outlet concentration and the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1. and continuous monitoring requirements as specified in A.III.4.
  - b. Emission Limitation  
76.0 lbs CO/hour  
  
Applicable Compliance Method  
Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1. and continuous monitoring requirements as specified in A.III.4.
  - c. Emission Limitation  
1.0 lb SO<sub>2</sub>/hr

Applicable Compliance Method

Compliance with the lb/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

- d. Emission Limitation  
10.0 lbs PE/hr

Applicable Compliance Method

Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

e. Emission Limitation

5.5 lbs VOC/hr

Applicable Compliance Method

Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

f. Emission Limitation

0.7 lbs Formaldehyde/hr

Applicable Compliance Method

Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

g. Emission Limitation

247.0 tons of CO per rolling 365-day period for P001-P004 combined

247.0 tons of NO<sub>x</sub> per rolling 365-day period for P001-P004 combined

Applicable Compliance Method

Compliance with the annual limitation shall be demonstrated by the record keeping as specified in Section A.III.1.

h. Emission Limitation

2.3 tons of SO<sub>2</sub> per rolling 12-month period

12.4 tons of VOC per rolling 12-month period

22.5 tons PE per rolling 12-month period

1.6 tons of Formaldehyde per rolling 12-month period

Applicable Compliance Method

Compliance with the annual limitation shall be demonstrated by the record keeping as specified in Section A.III.2.

i. Emission Limitation

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

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Applicable Compliance Method

If required, compliance with the visible emission limitation established by this permit shall be determined by Method 9 of 40 CFR Part 60 Appendix A.

**VI. Miscellaneous Requirements**

1. Should this emissions unit be converted from a simple cycle turbine to a combined cycle turbine in the future, a new BAT determination would be required.
2. Prior to the installation of the continuous NO<sub>x</sub> and CO monitoring systems, 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 as described in Section A.V.1.) for approval by the Ohio EPA, Central Office.

Prior to the installation of the continuous O<sub>2</sub> 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.

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 NO<sub>x</sub>, CO, and O<sub>2</sub> monitoring systems designed to ensure continuous valid and representative readings of NO<sub>x</sub>, CO, and O<sub>2</sub> emissions in the units established in this permit. The plan shall follow the requirements specified by the Ohio EPA (typically compliance with portions of 40 CFR Part 60 Appendix F or as approved by the Ohio EPA, Central Office). The quality assurance/quality control plan and a logbook dedicated to the continuous NO<sub>x</sub>, CO, and O<sub>2</sub> monitoring systems must be kept on site and available for inspection during regular office hours.

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

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

| <u>Operations, Property,<br/>and/or Equipment</u>                                | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control<br/>Measures</u> |
|--|--------------------------------------|--|
| P003 - simple cycle natural gas fired turbine (82MW nominal) with DLN combustion |                                      |  |

**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**

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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.

| <u>Operations, Property,<br/>and/or Equipment</u>  | <u>Applicable Rules/Requirements</u>   |
|--|--|
| P004 - simple cycle natural gas fired turbine (82MW nominal) with dry low NO <sub>x</sub> (DLN) combustion | OAC rule 3745-31-05 (A)(3)<br><br>OAC rule 3745-31-05 (D)<br><br>OAC rule 3745-17-07<br>40 CFR Part 60, Subpart GG<br>OAC rule 3745-18-06(F)<br>OAC rule 3745-17-11(B)(4)<br>OAC rule 3745-103<br>40 CFR Part 75 |

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| <u>Applicable Emissions<br/>Limitations/Control<br/>Measures</u>                          |              |
|---|--------------|
| See A.I.2.d.  | See A.I.2.a. |
| 9 ppmvd nitrogen oxides (NO <sub>x</sub> ) at 15% Oxygen, 36.0 lbs NO <sub>x</sub> /hr    | See A.I.2.c. |
| 1.0 lb sulfur dioxide (SO <sub>2</sub> )/hr   | See A.I.2.a. |
| 76.0 lbs carbon monoxide (CO)/hr  | See A.I.2.a. |
| 5.5 lbs volatile organic compounds (VOC)/hr   | See A.I.2.b. |
| 10.0 lbs particulate emissions (PE)/hr  | See A.I.2.b. |
| 0.7 lb formaldehyde/hr  |              |
| visible particulate emissions shall not exceed 10 percent opacity as a six-minute average |              |
| 2.3 tons of SO <sub>2</sub> and 12.4 tons of VOC per rolling 12-month period              |              |
| 22.5 tons PE and 1.6 tons of Formaldehyde per rolling 12-month period, See A.I.2.e.       |              |
| group emission limits from P001, P002, P003, and P004 combined of 247.0                   |              |

**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 emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). 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.d** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
- 2.e** The permit establishes the following federally enforceable restrictions:
- i. short term (lb/hr) emission limitations for all pollutants, in effect during all periods except startup and shutdown;
  - ii. for P001, P002, P003, and P004 combined, 247.0 tons NO<sub>x</sub> and 247.0 tons CO per rolling 365-day period, for the purpose of avoiding Prevention of Significant Deterioration (PSD) permitting requirements (See A.I.2.f.).
  - iii. 4500 hrs of operation per year for each emission unit, for the purpose of avoiding 112(g) permitting requirements for Formaldehyde emissions (See A.II.1.).
- 2.f** The maximum annual NO<sub>x</sub> and CO emissions for emissions units P001, P002, P003, and P004 combined shall not exceed 247.0 tons NO<sub>x</sub> and 247.0 tons CO per rolling 365-day period.

To ensure federal enforceability of the NO<sub>x</sub> and CO emission restrictions during the first 12 calendar months of operation, the permittee shall not exceed the cumulative monthly emissions specified in the table:

| Month | NO <sub>x</sub> emissions, in tons | CO emissions, in tons |
|-------|------------------------------------|-----------------------|
| 1     | 100                                | 100                   |

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|      |     |     |
|------|-----|-----|
| 1-2  | 180 | 180 |
| 1-3  | 240 | 240 |
| 1-12 | 247 | 247 |

After the first 12 calendar months of operation, compliance with the annual ton per year restrictions shall be based on a rolling, 365-day summation. These annual restrictions include startup and shutdown periods.

The first 12 calendar months of operation shall begin on the date when any one of emission units P001, P002, P003, or P004 is set in operation for any purpose.

**II. Operational Restrictions**

1. The maximum annual operating hours for this emissions units shall not exceed 4,500 hours\* per rolling 12-month period.

To ensure federal enforceability during the first 12 calendar months of operation the permittee shall not exceed the cumulative hourly restrictions specified in the following table:

| Month | Hours of Operation |
|-------|--------------------|
| 1     | 700                |
| 1-2   | 1,400              |
| 1-3   | 2,100              |
| 1-4   | 2,800              |

|      |       |
|------|-------|
| 1-5  | 3,500 |
| 1-6  | 4,200 |
| 1-12 | 4,500 |

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

The first 12 calendar months of operation shall begin on the date when this emission units is set in operation for any purpose.

2. This emissions unit shall have a maximum allowable heat input rate of 1524 MMBtu/hr. Except for start-ups and shut-downs, this emissions unit shall not be operated at less than 75% load.
3. The permittee shall burn only pipeline quality natural gas in this emissions unit. The maximum sulfur content of the natural gas shall not exceed 0.0068 percent by weight.

### III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain daily records of the following information for emission units P001, P002, P003, and P004 combined:
  - a. NO<sub>x</sub> and CO emissions, in lbs;
  - b. during the first 12 calendar months of operation, the cumulative CO and NO<sub>x</sub> emissions for each calendar month, in tons; and
  - c. beginning the first day after the first 12 calendar months of operation, the rolling 365-day summation of the daily NO<sub>x</sub> and daily CO emissions, in tons.

The daily emission rates shall be determined using Continuous Emission Monitoring (CEM) data required in A.III.4.

2. 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 cumulative operating hours for each calendar month;
  - c. beginning the first month after the first 12 calendar months of operation, the rolling 12-month summation of the operating hours;

- d. during the first 12 calendar months of operation, the cumulative PE, SO<sub>2</sub>, VOC, and Formaldehyde emissions, in tons per month; and
- e. beginning after the first 12 calendar months of operation, the rolling 12-month summation of PE, SO<sub>2</sub>, VOC, and Formaldehyde emissions, in tons.

The monthly emissions shall be determined using the hourly records required in Section A.III.2., in conjunction with the hourly emission rates determined by the most recent testing/emissions data available for each pollutant.

- 3. 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, D 4084-82, 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. Owners, operators, or fuel vendors may develop custom fuel schedules for the determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Ohio EPA, Northwest District Office before they can be used.
- 4. The permittee shall install, operate, and maintain equipment to continuously monitor\* and record NO<sub>x</sub> and CO from this emissions unit, in the units established in this permit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 40 or CFR Part 75.

The permittee shall maintain records of all data obtained by the continuous NO<sub>x</sub> and CO monitoring systems including, but not limited to, parts per million NO<sub>x</sub> on an instantaneous (one-minute) basis, emissions of NO<sub>x</sub> and CO in the units established in this permit (with an hourly block 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<sub>x</sub> may be performed in lieu of monitoring the nitrogen content of the fuels being fired in the turbine,

as required by 40 CFR 60.334(b).

5. The permittee shall install, operate, and maintain equipment to continuously monitor and record the O<sub>2</sub> from this emissions unit in percent O<sub>2</sub>. Such continuous monitoring and recording

equipment shall comply with the requirements specified in 40 CFR Part 60.13 or as approved by the Ohio EPA, Central Office. The permittee may install a CO<sub>2</sub> monitor in lieu of an O<sub>2</sub> monitor with prior approval from the Ohio EPA, Central Office.

The permittee shall maintain records of all data obtained by the continuous O<sub>2</sub> monitoring system including, but not limited to, percent O<sub>2</sub> on an instantaneous (one-minute) basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

6. The information management system for this emissions unit shall be capable of monitoring and recording the fuel flow in million cu ft and hours of operation.
7. When the emissions unit is in operation and the nitrogen oxides and/or carbon monoxide continuous monitoring system(s) is not operational, the permittee shall provide missing nitrogen oxide and/or carbon monoxide data consistent with the provisions listed in 40 CFR Part 75.
8. For each day during which the permittee burns a fuel other than pipeline quality natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

#### IV. Reporting Requirements

1. The permittee shall submit deviation reports to the Ohio EPA, Northwest District Office which identify all exceedances of the following:
  - a. for the first 12 calendar months of operation, all exceedances of the maximum NO<sub>x</sub> and CO emission levels from emissions units P001, P002, P003, and P004 combined;
  - b. for the first 12 calendar months of operation, all exceedances of the maximum allowable cumulative operating hours;
  - c. after the first 12 calendar months of operation, all exceedances of the rolling 365-day summation of the NO<sub>x</sub> and CO emission limitations for emissions units P001, P002, P003, and P004 combined, and;
  - d. after the first 12 calendar months of operation all exceedances of the rolling 12-month operating hours limitation.
2. 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 Ohio EPA Northwest District Office documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective

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actions taken (if any), of all instances of NO<sub>x</sub> or CO values in excess of the applicable limits specified in the terms and conditions of this permit.

The permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA Northwest District Office documenting any continuous NO<sub>x</sub>, CO, or O<sub>2</sub> 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. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

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 the data obtained during the previous calendar quarter.

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

3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than pipeline quality natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
4. The permittee shall submit deviation (excursion) reports that any fuel sampling which indicates the sulfur content of the fuel exceeds the restriction specified in condition A.II.3. Each report shall be submitted within 30 days after the deviation occurs.
5. In lieu of the excess emissions reports required under 40 CFR Part 60.334, the permittee shall submit excess emissions reports from this emissions unit in accordance with this permit.
6. These reports shall be submitted in accordance with Section A.1. of the General Terms and Conditions of this permit.
7. Pursuant to NSPS, the permittee is hereby advised of the requirement to report the following at

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the appropriate times:

- a. Construction date (no later than 30 days after such date);

- b. Actual start-up date (within 15 days after such date); and,
- c. Date of performance testing (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 EPA Northwest District Office  
347 North Dunbridge Road  
Bowling Green, OH 43402

## 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 capacity at which the emissions unit will be operated, but not later than 180 days after the emission unit is placed into operation for any purpose.
  - b. The emission testing shall be conducted to demonstrate compliance with the NO<sub>x</sub> outlet concentration, lbs/MMBtu heat input limitation for SO<sub>2</sub>\* and PE, and the mass emissions limitations for NO<sub>x</sub>, CO, SO<sub>2</sub>\*, VOC, Formaldehyde, and PE.
  - c. The following test method(s) shall be employed to demonstrate compliance with the above emissions limitations: for NO<sub>x</sub>, Method 20 of 40 CFR Part 60, Appendix A; for PE, Method 5 of 40 CFR Part 60, Appendix A; for CO, Method 10 of 40 CFR Part 60, Appendix A; for Formaldehyde, SW-846 Method 0011; for VOC, Method 25 or 25A of 40 CFR Part 60, Appendix A; and for SO<sub>2</sub>, Method 6 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.
  - d. The testing shall be performed at 100% load, unless otherwise specified or approved by

the Ohio EPA, Northwest District Office.

- 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 tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission tests.
  - f. Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the tests, 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 tests 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. As part of the stack test report, it is necessary to provide the identification of peak load of the unit, as defined by 40 CFR Part 60, Subpart GG and the average load that the emissions unit was operated during the test.
  - i. 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 SO<sub>2</sub> emissions testing required above, the permittee may sample the Sulfur content of the fuel as provided for in 40 CFR Part 60, 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<sub>x</sub> and CO monitoring systems pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 6\*. Personnel from the Ohio EPA, Northwest District Office 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, copies of all the test results shall be submitted within 30 days after the test is completed. Copies of the test results shall be sent to the Ohio EPA,

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Northwest District Office and the Ohio EPA, Central Office. Certification of the continuous NO<sub>x</sub> and dual-range CO monitoring systems 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\*.

\* The permittee may use 40 CFR Part 60, Appendix B, Performance Specification 2 and performance Specification 4 in conjunction with a fuel flow monitor as described in 40 CFR Part 75 to meet these requirements, if approved by the Ohio EPA, Central Office.

3. 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 O<sub>2</sub> monitoring systems pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 3. Personnel from the Ohio EPA, Northwest District Office 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 within 30 days after the test is completed. Copies of the test results shall be sent to the Ohio EPA, Northwest District Office and the Ohio EPA, Central Office. Certification of the continuous O<sub>2</sub> 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 3.
4. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation  
9 ppmvd NO<sub>x</sub> at 15% oxygen  
36.0 lbs NO<sub>x</sub>/hr  
  
Applicable Compliance Method  
Compliance with the allowable outlet concentration and the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1. and continuous monitoring requirements as specified in A.III.4.
  - b. Emission Limitation  
76.0 lbs CO/hour  
  
Applicable Compliance Method  
Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1. and continuous monitoring requirements as specified in A.III.4.
  - c. Emission Limitation  
1.0 lb SO<sub>2</sub>/hr

Applicable Compliance Method

Compliance with the lb/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

- d. Emission Limitation  
10.0 lbs PE/hr

Applicable Compliance Method

Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

e. Emission Limitation

5.5 lbs VOC/hr

Applicable Compliance Method

Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

f. Emission Limitation

0.7 lbs Formaldehyde/hr

Applicable Compliance Method

Compliance with the lbs/hr emission limitation shall be demonstrated by performance testing as specified in Section A.V.1.

g. Emission Limitation

247.0 tons of CO per rolling 365-day period for P001-P004 combined

247.0 tons of NO<sub>x</sub> per rolling 365-day period for P001-P004 combined

Applicable Compliance Method

Compliance with the annual limitation shall be demonstrated by the record keeping as specified in Section A.III.1.

h. Emission Limitation

2.3 tons of SO<sub>2</sub> per rolling 12-month period

12.4 tons of VOC per rolling 12-month period

22.5 tons PE per rolling 12-month period

1.6 tons of Formaldehyde per rolling 12-month period

Applicable Compliance Method

Compliance with the annual limitation shall be demonstrated by the record keeping as specified in Section A.III.2.

i. Emission Limitation

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

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Emissions Unit ID: P004

Applicable Compliance Method

If required, compliance with the visible emission limitation established by this permit shall be determined by Method 9 of 40 CFR Part 60 Appendix A.

**VI. Miscellaneous Requirements**

1. Should this emissions unit be converted from a simple cycle turbine to a combined cycle turbine in the future, a new BAT determination would be required.
2. Prior to the installation of the continuous NO<sub>x</sub> and CO monitoring systems, 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 as described in Section A.V.1.) for approval by the Ohio EPA, Central Office.

Prior to the installation of the continuous O<sub>2</sub> 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.

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 NO<sub>x</sub>, CO, and O<sub>2</sub> monitoring systems designed to ensure continuous valid and representative readings of NO<sub>x</sub>, CO, and O<sub>2</sub> emissions in the units established in this permit. The plan shall follow the requirements specified by the Ohio EPA (typically compliance with portions of 40 CFR Part 60 Appendix F or as approved by the Ohio EPA, Central Office). The quality assurance/quality control plan and a logbook dedicated to the continuous NO<sub>x</sub>, CO, and O<sub>2</sub> monitoring systems must be kept on site and available for inspection during regular office hours.

**B. State Only Enforceable Section**

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

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

| <u>Operations, Property, and/or Equipment</u>                                   | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|---|--------------------------------------|--|
| P004 -simple cycle natural gas fired turbine (82MW nominal) with DLN combustion |                                      |  |

**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**

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PTI Application: **02 12004**

**Issued**

Facility ID: **0326000195**

Emissions Unit ID: P004

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.

| <u>Operations, Property, and/or Equipment</u>        | <u>Applicable Rules/Requirements</u> | OAC rule 3745-18-06(F)    |
|--|--------------------------------------|---------------------------|
| P005 - 2.59MMBtu/hr Diesel Fired Emergency Fire Pump | OAC Rule 3745-31-05 (A)(3)           | OAC Rule 3745-17-11(B)(4) |
|  | OAC Rule 3745-31-05 (D)              |                           |
|  | OAC Rule 3745-17-07                  |                           |

Applicable Emissions  
Limitations/Control  
Measures

0.26 lb particulate emissions  
(PE)/hr  
& 0.1 ton PE/yr

1.31 lbs sulfur dioxide  
(SO<sub>2</sub>)/hr  
& 0.1 ton SO<sub>2</sub>/yr

2.20 lbs carbon monoxide  
(CO)/hr  
& 0.1 ton CO/yr

8.29 lbs nitrogen oxides  
(NO<sub>x</sub>)/hr

0.23 lb volatile organic  
compounds (VOC)/hr & 0.1  
ton VOC/yr

10% opacity as a 6-minute  
average, except during  
start-up and shutdown

See A.2.a.

0.2 ton NO<sub>x</sub> per rolling  
12-month period based on  
restriction of operating hours  
(See A.2.b.)

See A.2.c.

See A.2.d.

See A.2.c.

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Emissions Unit ID: P005

## 2. Additional Terms and Conditions

- 2.a The requirements of OAC rule 3745-31-05(A) also include compliance with the requirements of OAC Rule 3745-31-05(D).
- 2.b The permittee has requested a federally enforceable limitation of 0.22 tons of NO<sub>x</sub> per rolling 12-month period based on hours of operation (See A.II.2.).
- 2.c 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.d This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule OAC rule 3745-18-06(B).

## II. Operational Restrictions

- 1. The permittee shall only burn low sulfur diesel fuel, containing less than 0.5% sulfur by weight, in this emissions unit.
- 2. The maximum annual hours of operation for this emissions unit shall not exceed 52 hours per year, based upon a rolling 12-month summation.

## III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. the hours of operation;
  - b. the monthly emission rate for NO<sub>x</sub>;
  - c. during the first 12 calendar months of operation, the cumulative hours of operation;
  - d. beginning the first month after the first 12 calendar months of operation, the rolling, 12-month summation of the hours of operation; and
  - e. beginning the first month after the 12 calendar months of operation, the rolling, 12-month summation of the emission rate for NO<sub>x</sub>, in tons.
- 2. For each day during which the permittee burns a fuel other than diesel fuel the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit. The permittee

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shall also maintain documentation on the sulfur content of all fuels received.

#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month hours of operation limitation; the rolling, 12-month NO<sub>x</sub> emissions; and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative hours of operation.
2. The permittee shall submit deviation (excursion) reports which identify any exceedances of the fuel usage and Sulfur content restrictions described in condition B.2.
3. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).

#### V. Testing Requirements

1. Compliance with the emission limitations in the terms and conditions of this permit shall be determined in accordance with the following methods:

a. **Emission Limitation:**

0.26 lbs PE/hr and 0.1 ton PE/yr

**Applicable Compliance Method:**

Compliance with the hourly emission limitation shall be determined by multiplying the AP-42 emission factor (Table 3.4-1, dated 10/96) of 0.1 lb PE/MM Btu by the maximum heat input of the emissions unit (2.59 MM Btu/hr). If required, the permittee shall demonstrate compliance by testing in accordance with Method 5 of 40 CFR Part 60, Appendix A. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission rate by 52 hrs/yr and dividing by 2000 lbs/ton.

b. **Emission Limitation:**

1.31 lbs SO<sub>2</sub>/hr and 0.1 ton SO<sub>2</sub>/yr

**Applicable Compliance Method:**

Compliance with the hourly emission limitation shall be determined by multiplying the AP-42 emission factor (Table 3.4-1, dated 10/96) of 0.505 lb SO<sub>2</sub>/MM Btu by the maximum heat input of the emissions unit (2.59 MM Btu/hr). If required, the permittee shall demonstrate compliance by testing in accordance with Method 6 of 40 CFR Part 60, Appendix A. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission rate by 52 hrs/yr and dividing by 2000 lbs/ton.

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Facility ID: **0326000195**

Emissions Unit ID: P005

- c. **Emission Limitation:**  
2.20 lbs CO/hr and 0.1 ton CO/yr

**Applicable Compliance Method:**

Compliance with the hourly emission limitation shall be determined by multiplying the AP-42 emission factor (Table 3.4-1, dated 10/96) of 0.85 lb CO/MM Btu by the maximum heat input of the emissions unit (2.59 MM Btu/hr). If required, the permittee shall demonstrate compliance by testing in accordance with Method 5 of 40 CFR Part 60, Appendix A. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission rate by 52 hrs/yr and dividing by 2000 lbs/ton.

d. **Emission Limitation:**

8.29 lbs NO<sub>x</sub>/hr & 0.2 tons NO<sub>x</sub> per rolling 12-month period.

**Applicable Compliance Method:**

Compliance with the hourly emission limitation shall be determined by multiplying the AP-42 emission factor (Table 3.4-1, dated 10/96) of 3.2 lbs NO<sub>x</sub>/MM Btu by the maximum heat input of the emissions unit (2.59 MM Btu/hr). If required, the permittee shall demonstrate compliance by testing in accordance with Method 7 of 40 CFR Part 60, Appendix A. Compliance with the annual emission limitation shall be demonstrated by the record keeping in condition C.2.

e. **Emission Limitation:**

0.23 lb VOC/hr & 0.1 ton VOC/yr

**Applicable Compliance Method:**

Compliance with the hourly emission limitation shall be determined by multiplying the AP-42 emission factor (Table 3.4-1, dated 10/96) of 0.09 lb VOC/MM Btu by the maximum heat input of the emissions unit (2.59 MM Btu/hr). If required, the permittee shall demonstrate compliance by testing in accordance with Method 25 of 40 CFR Part 60, Appendix A. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission rate by 52 hrs/yr and dividing by 2000 lbs/ton.

f. **Emission Limitation:**

10% opacity as a 6-minute average

**Applicable Compliance Method:**

If required, the permittee shall demonstrate compliance by testing in accordance with Method 9 of 40 CFR Part 60, Appendix A.

**VI. Miscellaneous Requirements**

None

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**Issued: 10/15/2002**

Emissions Unit ID: P005

**B. State Only Enforceable Section**

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

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

| <u>Operations, Property,<br/>and/or Equipment</u>          | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control<br/>Measures</u> |
|--|--------------------------------------|--|
| P005 - 2.59MMBtu/hr<br>Diesel Fired Emergency Fire<br>Pump |                                      |  |

**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**

None