



State of Ohio Environmental Protection Agency

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

**CERTIFIED MAIL**

Street Address:

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

Mailing Address:

Lazarus Gov. Center

**Application No: 06-07002**

**DATE: 9/26/2002**

Northwest Fuel Dev.-Rose Valley Power  
Peet Soot  
4064 Orchard Drive  
Lake Oswego, OR 97035

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

SEDO



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install  
Terms and Conditions**

**Issue Date: 9/26/2002  
Effective Date: 9/26/2002**

**FINAL PERMIT TO INSTALL 06-07002**

Application Number: 06-07002  
APS Premise Number: 0634000089  
Permit Fee: **\$1800**  
Name of Facility: Northwest Fuel Dev.-Rose Valley Power  
Person to Contact: Peet Soot  
Address: 4064 Orchard Drive  
Lake Oswego, OR 97035

Location of proposed air contaminant source(s) [emissions unit(s)]:

**SW of Ohio 151 & CR 14  
Green Township, Ohio**

Description of proposed emissions unit(s):

**Eight engines.**

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>
PE	16.1
NOx	39.0
CO	18.6
OC	16.8

**Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**

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

None.

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

None.

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

**A. State and Federally Enforceable Section**

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

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

Operations, Property,  
and/or Equipment

Applicable Rules/Requirements

P010 - 107 HP GM engine with a catalytic converter    OAC rule 3745-31-05 (A)(3)

OAC rule 3745-17-07 (A)

OAC rule 3745-21-08

OAC rule 3745-23-06

OAC rule 3745-18-06(B)

OAC rule 3745-17-11(B)(5)(a)

Applicable Emissions  
Limitations/Control  
Measures

Emissions of nitrogen oxides (NO<sub>x</sub>) shall not exceed 0.48 lbs/hour, 2.1 TPY.

Emissions of carbon monoxide (CO) shall not exceed 0.48 lb/hour, 2.1 TPY.

Emissions of organic compounds (OC) shall not exceed 0.24 lbs/hour, 1.1 TPY.

Particulate emissions (PE) shall not exceed 1.8 TPY.

No visible particulate emissions shall be exhausted from the stack.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B)(5)(a), 3745-21-08 and 3745-23-06.

PE shall not exceed 0.25 lb/mmBtu of actual heat input.

See section A.I.2.a.

PE shall not exceed 0.310 lb/mmBtu of actual heat input.

See section A.I.2.b.

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

See section A.I.2.c.

Exempt. See section A.I.2.d.

**2. Additional Terms and Conditions**

- 2.a** The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b** This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 06-07002.
- 2.d** OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to, or less than, 10 mmBtu/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 1.32 mmBtu/hr.

**II. Operational Restrictions**

- 1. The permittee shall use only methane to run this emissions unit.

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

- 1. For each day during which the permittee burns a fuel other than methane gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall perform biweekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

**Issued**

Emissions Unit ID: P010

- a. the color of the emissions;
- b. the total duration of any visible emission incident; and
- c. any corrective actions taken to eliminate the visible emissions.

**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than methane gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA Southeast District Office by February 15 and August 15 of each year and shall cover the previous 6-month period.

**V. Testing Requirements**

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

- a. Emissions Limitation:  
Emissions of NO<sub>x</sub> shall not exceed 0.48 lbs/hour, 2.1 TPY.

## Compliance Method:

Compliance with the lb/hour NO<sub>x</sub> emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 7. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- b. Emissions Limitation:  
Emissions of CO shall not exceed 0.48 lbs/hour, 2.1 TPY.

## Compliance Method:

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR

Part 60, Appendix A, Method 10. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- c. Emission Limitation:  
Emissions of OC shall not exceed 0.24 lbs/hour, 1.1 TPY.

Compliance Method:

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (1 g/hp-hour, equivalent to 0.24 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 25A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- d. Emission Limitation:  
PE shall not exceed 0.310 lb/mmBtu of actual heat input. PE shall not exceed 1.8 TPY.

Compliance Method:

Compliance with the lb/hour PE emissions limitation shall be demonstrated by the use of AP-42, Chapter 3.2, Table 3.2-3 (7/00) PE emission factor (0.0095 lb/mmBtu), multiplied by the maximum hourly gas burning capacity of the emission unit (1.32 mmBtu/hr), provided by the permittee.

The TPY emission limitation was developed by multiplying the allowable particulate emission limitation (0.310 lb/mmBtu) by the maximum hourly gas burning capacity of the emissions unit (1.32 mmBtu/hr), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the short term limitation, compliance shall also be shown with the annual emission limitation.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 1-5 and the procedures in OAC rule 3745-17-03 (B)(10). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- e. Emission Limitation:  
No visible emissions shall be exhausted from the stack.

Northwest Fuel Dev.-Rose Valley Power

PTI Application: 06 07002

**Issued**

Facility ID: 0634000089

Emissions Unit ID: P010

**Compliance Method:**

Compliance with the visible emissions limitations shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60

18

Northv

PTI A<sub>1</sub>

**Issued: 9/26/2002**

Emissions Unit ID: P010

("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

**VI. Miscellaneous Requirements**

None.

**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>
P010 - 107 HP GM engine with a catalytic converter	None	None

**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.



**Issued**

Emissions Unit ID: P011

Applicable Emissions  
Limitations/Control  
Measures

Emissions of nitrogen oxides (NOx) shall not exceed 0.48 lbs/hour, 2.1 TPY.

Emissions of carbon monoxide (CO) shall not exceed 0.48 lb/hour, 2.1 TPY.

Emissions of organic compounds (OC) shall not exceed 0.24 lbs/hour, 1.1 TPY.

Particulate emissions (PE) shall not exceed 1.8 TPY.

No visible particulate emissions shall be exhausted from the stack.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B)(5)(a), 3745-21-08 and 3745-23-06.

PE shall not exceed 0.25 lb/mmBtu of actual heat input.

See section A.I.2.a.

PE shall not exceed 0.310 lb/mmBtu of actual heat input.

See section A.I.2.b.

The emission limitation specified by this rule is less stringent than the emission

limitation established pursuant to OAC rule 3745-31-05(A)(3).

See section A.I.2.c.

Exempt. See section A.I.2.d.

**2. Additional Terms and Conditions**

- 2.a** The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b** This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 06-07002.
- 2.d** OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to, or less than, 10 mmBtu/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 1.32 mmBtu/hr.

**II. Operational Restrictions**

- 1. The permittee shall use only methane to run this emissions unit.

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

- 1. For each day during which the permittee burns a fuel other than methane gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall perform biweekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. the total duration of any visible emission incident; and
  - c. any corrective actions taken to eliminate the visible emissions.

#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than methane gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA Southeast District Office by February 15 and August 15 of each year and shall cover the previous 6-month period.

#### V. Testing Requirements

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

- a. Emissions Limitation:  
Emissions of NO<sub>x</sub> shall not exceed 0.48 lbs/hour, 2.1 TPY.

Compliance Method:

Compliance with the lb/hour NO<sub>x</sub> emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 7. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- b. Emissions Limitation:  
Emissions of CO shall not exceed 0.48 lbs/hour, 2.1 TPY.

Compliance Method:

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 10. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- c. Emission Limitation:  
Emissions of OC shall not exceed 0.24 lbs/hour, 1.1 TPY.

Compliance Method:

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (1 g/hp-hour, equivalent to 0.24 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 25A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- d. Emission Limitation:  
PE shall not exceed 0.310 lb/mmBtu of actual heat input. PE shall not exceed 1.8 TPY.

Compliance Method:

Compliance with the lb/hour PE emissions limitation shall be demonstrated by the use of AP-42, Chapter 3.2, Table 3.2-3 (7/00) PE emission factor (0.0095 lb/mmBtu), multiplied by the maximum hourly gas burning capacity of the emission unit (1.32 mmBtu/hr), provided by the permittee.

The TPY emission limitation was developed by multiplying the allowable particulate emission limitation (0.310 lb/mmBtu) by the maximum hourly gas burning capacity of the emissions unit (1.32 mmBtu/hr), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the short term limitation, compliance shall also be shown with the annual emission limitation.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 1-5 and the procedures in OAC rule 3745-17-03 (B)(10). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- e. Emission Limitation:  
No visible emissions shall be exhausted from the stack.

Compliance Method:

Compliance with the visible emissions limitations shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60

25

Northv

PTI A<sub>1</sub>

**Issued: 9/26/2002**

Emissions Unit ID: P011

("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

**VI. Miscellaneous Requirements**

None.

**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>
P011 - 107 HP GM engine with a catalytic converter	None	None

**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.

**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 3745-17-07 (A)
P012 - 107 HP GM engine with a catalytic converter	OAC rule 3745-31-05 (A)(3)	OAC rule 3745-21-08 OAC rule 3745-23-06
	OAC rule 3745-17-11(B)(5)(a)	OAC rule 3745-18-06(B)

Applicable Emissions  
Limitations/Control  
Measures

Emissions of nitrogen oxides (NO<sub>x</sub>) shall not exceed 0.48 lbs/hour, 2.1 TPY.

See section A.I.2.b.

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Emissions of carbon monoxide (CO) shall not exceed 0.48 lb/hour, 2.1 TPY.

See section A.I.2.c.

Emissions of organic compounds (OC) shall not exceed 0.24 lbs/hour, 1.1 TPY.

Exempt. See section A.I.2.d.

Particulate emissions (PE) shall not exceed 1.8 TPY.

No visible particulate emissions shall be exhausted from the stack.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B)(5)(a), 3745-21-08 and 3745-23-06.

PE shall not exceed 0.25 lb/mmBtu of actual heat input.

See section A.I.2.a.

PE shall not exceed 0.310 lb/mmBtu of actual heat input.

**2. Additional Terms and Conditions**

- 2.a** The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b** This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 06-07002.
- 2.d** OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to, or less than, 10 mmBtu/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 1.32 mmBtu/hr.

**II. Operational Restrictions**

1. The permittee shall use only methane to run this emissions unit.

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

1. For each day during which the permittee burns a fuel other than methane gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall perform biweekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. the total duration of any visible emission incident; and
  - c. any corrective actions taken to eliminate the visible emissions.

#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than methane gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA Southeast District Office by February 15 and August 15 of each year and shall cover the previous 6-month period.

#### V. Testing Requirements

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

- a. Emissions Limitation:  
Emissions of NO<sub>x</sub> shall not exceed 0.48 lbs/hour, 2.1 TPY.

Compliance Method:

Compliance with the lb/hour NO<sub>x</sub> emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 7. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- b. Emissions Limitation:  
Emissions of CO shall not exceed 0.48 lbs/hour, 2.1 TPY.

Compliance Method:

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 10. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- c. Emission Limitation:  
Emissions of OC shall not exceed 0.24 lbs/hour, 1.1 TPY.

Compliance Method:

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (1 g/hp-hour, equivalent to 0.24 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 25A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- d. Emission Limitation:  
PE shall not exceed 0.310 lb/mmBtu of actual heat input. PE shall not exceed 1.8 TPY.

Compliance Method:

Compliance with the lb/hour PE emissions limitation shall be demonstrated by the use of AP-42, Chapter 3.2, Table 3.2-3 (7/00) PE emission factor (0.0095 lb/mmBtu), multiplied by the maximum hourly gas burning capacity of the emission unit (1.32 mmBtu/hr), provided by the permittee.

The TPY emission limitation was developed by multiplying the allowable particulate emission limitation (0.310 lb/mmBtu) by the maximum hourly gas burning capacity of the emissions unit (1.32 mmBtu/hr), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the short term limitation, compliance shall also be shown with the annual emission limitation.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 1-5 and the procedures in OAC rule 3745-17-03 (B)(10). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- e. Emission Limitation:  
No visible emissions shall be exhausted from the stack.

Compliance Method:

Compliance with the visible emissions limitations shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60

32

Northv

PTI A<sub>1</sub>

**Issued: 9/26/2002**

Emissions Unit ID: P012

("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

**VI. Miscellaneous Requirements**

None.

**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>
P012 - 107 HP GM engine with a catalytic converter	None	None

**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.



Applicable Emissions  
Limitations/Control  
Measures

Emissions of nitrogen oxides (NOx) shall not exceed 0.48 lbs/hour, 2.1 TPY.

See section A.I.2.b.

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Emissions of carbon monoxide (CO) shall not exceed 0.48 lb/hour, 2.1 TPY.

See section A.I.2.c.

Emissions of organic compounds (OC) shall not exceed 0.24 lbs/hour, 1.1 TPY.

Exempt. See section A.I.2.d.

Particulate emissions (PE) shall not exceed 1.8 TPY.

No visible particulate emissions shall be exhausted from the stack.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B)(5)(a), 3745-21-08 and 3745-23-06.

PE shall not exceed 0.25 lb/mmBtu of actual heat input.

See section A.I.2.a.

PE shall not exceed 0.310 lb/mmBtu of actual heat input.

**2. Additional Terms and Conditions**

- 2.a** The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b** This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 06-07002.
- 2.d** OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to, or less than, 10 mmBtu/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 1.32 mmBtu/hr.

**II. Operational Restrictions**

- 1. The permittee shall use only methane to run this emissions unit.

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

- 1. For each day during which the permittee burns a fuel other than methane gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall perform biweekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. the total duration of any visible emission incident; and
  - c. any corrective actions taken to eliminate the visible emissions.

#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than methane gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA Southeast District Office by February 15 and August 15 of each year and shall cover the previous 6-month period.

#### V. Testing Requirements

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

- a. Emissions Limitation:  
Emissions of NO<sub>x</sub> shall not exceed 0.48 lbs/hour, 2.1 TPY.

Compliance Method:

Compliance with the lb/hour NO<sub>x</sub> emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 7. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- b. Emissions Limitation:  
Emissions of CO shall not exceed 0.48 lbs/hour, 2.1 TPY.

Compliance Method:

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 10. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- c. Emission Limitation:

Emissions of OC shall not exceed 0.24 lbs/hour, 1.1 TPY.

Compliance Method:

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (1 g/hp-hour, equivalent to 0.24 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 25A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- d. Emission Limitation:  
PE shall not exceed 0.310 lb/mmBtu of actual heat input. PE shall not exceed 1.8 TPY.

Compliance Method:

Compliance with the lb/hour PE emissions limitation shall be demonstrated by the use of AP-42, Chapter 3.2, Table 3.2-3 (7/00) PE emission factor (0.0095 lb/mmBtu), multiplied by the maximum hourly gas burning capacity of the emission unit (1.32 mmBtu/hr), provided by the permittee.

The TPY emission limitation was developed by multiplying the allowable particulate emission limitation (0.310 lb/mmBtu) by the maximum hourly gas burning capacity of the emissions unit (1.32 mmBtu/hr), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the short term limitation, compliance shall also be shown with the annual emission limitation.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 1-5 and the procedures in OAC rule 3745-17-03 (B)(10). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- e. Emission Limitation:  
No visible emissions shall be exhausted from the stack.

Compliance Method:

Compliance with the visible emissions limitations shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60

Northwest Fuel Dev.-Rose Valley Power

PTI Application: 06 07002

**Issued**

Facility ID: 0634000089

Emissions Unit ID: P013

("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

## **VI. Miscellaneous Requirements**

None.

**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>
P013 - 107 HP GM engine with a catalytic converter	None	None

**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.



Applicable Emissions  
Limitations/Control  
Measures

Emissions of nitrogen oxides (NOx) shall not exceed 0.48 lbs/hour, 2.1 TPY.

See section A.I.2.b.

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Emissions of carbon monoxide (CO) shall not exceed 0.48 lb/hour, 2.1 TPY.

See section A.I.2.c.

Emissions of organic compounds (OC) shall not exceed 0.24 lbs/hour, 1.1 TPY.

Exempt. See section A.I.2.d.

Particulate emissions (PE) shall not exceed 1.8 TPY.

No visible particulate emissions shall be exhausted from the stack.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B)(5)(a), 3745-21-08 and 3745-23-06.

PE shall not exceed 0.25 lb/mmBtu of actual heat input.

See section A.I.2.a.

PE shall not exceed 0.310 lb/mmBtu of actual heat input.

**2. Additional Terms and Conditions**

- 2.a** The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b** This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 06-07002.
- 2.d** OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to, or less than, 10 mmBtu/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 1.32 mmBtu/hr.

**II. Operational Restrictions**

- 1. The permittee shall use only methane to run this emissions unit.

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

- 1. For each day during which the permittee burns a fuel other than methane gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall perform biweekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. the total duration of any visible emission incident; and
  - c. any corrective actions taken to eliminate the visible emissions.

#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than methane gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA Southeast District Office by February 15 and August 15 of each year and shall cover the previous 6-month period.

#### V. Testing Requirements

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

- a. Emissions Limitation:  
Emissions of NO<sub>x</sub> shall not exceed 0.48 lbs/hour, 2.1 TPY.

Compliance Method:

Compliance with the lb/hour NO<sub>x</sub> emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 7. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- b. Emissions Limitation:  
Emissions of CO shall not exceed 0.48 lbs/hour, 2.1 TPY.

Compliance Method:

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 10. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- c. Emission Limitation:

Emissions Unit ID: P014

Emissions of OC shall not exceed 0.24 lbs/hour, 1.1 TPY.

**Compliance Method:**

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (1 g/hp-hour, equivalent to 0.24 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 25A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- d. **Emission Limitation:**  
PE shall not exceed 0.310 lb/mmBtu of actual heat input. PE shall not exceed 1.8 TPY.

**Compliance Method:**

Compliance with the lb/hour PE emissions limitation shall be demonstrated by the use of AP-42, Chapter 3.2, Table 3.2-3 (7/00) PE emission factor (0.0095 lb/mmBtu), multiplied by the maximum hourly gas burning capacity of the emission unit (1.32 mmBtu/hr), provided by the permittee.

The TPY emission limitation was developed by multiplying the allowable particulate emission limitation (0.310 lb/mmBtu) by the maximum hourly gas burning capacity of the emissions unit (1.32 mmBtu/hr), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the short term limitation, compliance shall also be shown with the annual emission limitation.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 1-5 and the procedures in OAC rule 3745-17-03 (B)(10). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- e. **Emission Limitation:**  
No visible emissions shall be exhausted from the stack.

**Compliance Method:**

Compliance with the visible emissions limitations shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

## VI. Miscellaneous Requirements

46

Northwest Fuel Dev.-Rose Valley Power

PTI Application: **06 07002**

**Issued**

Facility ID: **0634000089**

Emissions Unit ID: P014

None.

**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>
P014 - 107 HP GM engine with a catalytic converter	None	None

**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.

**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>
P015 - 107 HP GM engine with a catalytic converter	OAC rule 3745-31-05 (A)(3)
	OAC rule 3745-17-07 (A)
	OAC rule 3745-21-08 OAC rule 3745-23-06
	OAC rule 3745-18-06(B)
	OAC rule 3745-17-11(B)(5)(a)

**Issued**

Emissions Unit ID: P015

Applicable Emissions  
Limitations/Control  
Measures

limitation established pursuant to  
OAC rule 3745-31-05(A)(3).

Emissions of nitrogen oxides  
(NOx) shall not exceed 0.48  
lbs/hour, 2.1 TPY.

See section A.I.2.c.

Emissions of carbon  
monoxide (CO) shall not  
exceed 0.48 lb/hour, 2.1  
TPY.

Exempt. See section A.I.2.d.

Emissions of organic  
compounds (OC) shall not  
exceed 0.24 lbs/hour, 1.1  
TPY.

Particulate emissions (PE)  
shall not exceed 1.8 TPY.

No visible particulate  
emissions shall be exhausted  
from the stack.

The requirements of this rule  
also include compliance with  
the requirements of OAC  
rules 3745-17-11(B)(5)(a),  
3745-21-08 and 3745-23-06.

PE shall not exceed 0.25  
lb/mmBtu of actual heat  
input.

See section A.I.2.a.

PE shall not exceed 0.310  
lb/mmBtu of actual heat  
input.

See section A.I.2.b.

The emission limitation  
specified by this rule is less  
stringent than the emission

**2. Additional Terms and Conditions**

- 2.a** The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b** This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 06-07002.
- 2.d** OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to, or less than, 10 mmBtu/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 1.32 mmBtu/hr.

**II. Operational Restrictions**

1. The permittee shall use only methane to run this emissions unit.

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

1. For each day during which the permittee burns a fuel other than methane gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall perform biweekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. the total duration of any visible emission incident; and
  - c. any corrective actions taken to eliminate the visible emissions.

#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than methane gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA Southeast District Office by February 15 and August 15 of each year and shall cover the previous 6-month period.

#### V. Testing Requirements

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

- a. Emissions Limitation:  
Emissions of NO<sub>x</sub> shall not exceed 0.48 lbs/hour, 2.1 TPY.

Compliance Method:

Compliance with the lb/hour NO<sub>x</sub> emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 7. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- b. Emissions Limitation:  
Emissions of CO shall not exceed 0.48 lbs/hour, 2.1 TPY.

Compliance Method:

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 10. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- c. Emission Limitation:  
Emissions of OC shall not exceed 0.24 lbs/hour, 1.1 TPY.

Compliance Method:

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (1 g/hp-hour, equivalent to 0.24 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 25A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- d. Emission Limitation:  
PE shall not exceed 0.310 lb/mmBtu of actual heat input. PE shall not exceed 1.8 TPY.

Compliance Method:

Compliance with the lb/hour PE emissions limitation shall be demonstrated by the use of AP-42, Chapter 3.2, Table 3.2-3 (7/00) PE emission factor (0.0095 lb/mmBtu), multiplied by the maximum hourly gas burning capacity of the emission unit (1.32 mmBtu/hr), provided by the permittee.

The TPY emission limitation was developed by multiplying the allowable particulate emission limitation (0.310 lb/mmBtu) by the maximum hourly gas burning capacity of the emissions unit (1.32 mmBtu/hr), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the short term limitation, compliance shall also be shown with the annual emission limitation.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 1-5 and the procedures in OAC rule 3745-17-03 (B)(10). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- e. Emission Limitation:  
No visible emissions shall be exhausted from the stack.

Compliance Method:

Compliance with the visible emissions limitations shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60

53

Northv

PTI A<sub>1</sub>

**Issued: 9/26/2002**

Emissions Unit ID: P015

("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

**VI. Miscellaneous Requirements**

None.

**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>
P015 - 107 HP GM engine with a catalytic converter	None	None

**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.

**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>	
P016 - 107 HP GM engine with a catalytic converter	OAC rule 3745-31-05 (A)(3)	OAC rule 3745-17-07 (A)
		OAC rule 3745-21-08 OAC rule 3745-23-06
		OAC rule 3745-18-06(B)
	OAC rule 3745-17-11(B)(5)(a)	

Applicable Emissions  
Limitations/Control  
Measures

Emissions of nitrogen oxides (NO<sub>x</sub>) shall not exceed 0.48 lbs/hour, 2.1 TPY.

Emissions of carbon monoxide (CO) shall not exceed 0.48 lb/hour, 2.1 TPY.

Emissions of organic compounds (OC) shall not exceed 0.24 lbs/hour, 1.1 TPY.

Particulate emissions (PE) shall not exceed 1.8 TPY.

No visible particulate emissions shall be exhausted from the stack.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B)(5)(a), 3745-21-08 and 3745-23-06.

PE shall not exceed 0.25 lb/mmBtu of actual heat input.

See section A.I.2.a.

PE shall not exceed 0.310 lb/mmBtu of actual heat input.

See section A.I.2.b.

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

See section A.I.2.c.

Exempt. See section A.I.2.d.

**2. Additional Terms and Conditions**

- 2.a** The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b** This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 06-07002.
- 2.d** OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to, or less than, 10 mmBtu/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 1.32 mmBtu/hr.

**II. Operational Restrictions**

- 1. The permittee shall use only methane to run this emissions unit.

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

- 1. For each day during which the permittee burns a fuel other than methane gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall perform biweekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. the total duration of any visible emission incident; and
  - c. any corrective actions taken to eliminate the visible emissions.

#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than methane gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA Southeast District Office by February 15 and August 15 of each year and shall cover the previous 6-month period.

#### V. Testing Requirements

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

- a. Emissions Limitation:  
Emissions of NO<sub>x</sub> shall not exceed 0.48 lbs/hour, 2.1 TPY.

Compliance Method:

Compliance with the lb/hour NO<sub>x</sub> emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 7. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- b. Emissions Limitation:  
Emissions of CO shall not exceed 0.48 lbs/hour, 2.1 TPY.

Compliance Method:

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 10. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- c. Emission Limitation:  
Emissions of OC shall not exceed 0.24 lbs/hour, 1.1 TPY.

Compliance Method:

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (1 g/hp-hour, equivalent to 0.24 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 25A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- d. Emission Limitation:  
PE shall not exceed 0.310 lb/mmBtu of actual heat input. PE shall not exceed 1.8 TPY.

Compliance Method:

Compliance with the lb/hour PE emissions limitation shall be demonstrated by the use of AP-42, Chapter 3.2, Table 3.2-3 (7/00) PE emission factor (0.0095 lb/mmBtu), multiplied by the maximum hourly gas burning capacity of the emission unit (1.32 mmBtu/hr), provided by the permittee.

The TPY emission limitation was developed by multiplying the allowable particulate emission limitation (0.310 lb/mmBtu) by the maximum hourly gas burning capacity of the emissions unit (1.32 mmBtu/hr), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the short term limitation, compliance shall also be shown with the annual emission limitation.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 1-5 and the procedures in OAC rule 3745-17-03 (B)(10). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- e. Emission Limitation:  
No visible emissions shall be exhausted from the stack.

Compliance Method:

Compliance with the visible emissions limitations shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60

60

Northv

PTI A<sub>1</sub>

**Issued: 9/26/2002**

Emissions Unit ID: P016

("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

**VI. Miscellaneous Requirements**

None.

**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>
P016 - 107 HP GM engine with a catalytic converter	None	None

**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.

**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>
P017 - 107 HP GM engine with a catalytic converter	OAC rule 3745-31-05 (A)(3)  OAC rule 3745-17-07 (A)  OAC rule 3745-21-08 OAC rule 3745-23-06  OAC rule 3745-18-06(B)    OAC rule 3745-17-11(B)(5)(a)

Applicable Emissions  
Limitations/Control  
Measures

Emissions of nitrogen oxides (NOx) shall not exceed 0.48 lbs/hour, 2.1 TPY.

See section A.I.2.b.

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Emissions of carbon monoxide (CO) shall not exceed 0.48 lb/hour, 2.1 TPY.

See section A.I.2.c.

Emissions of organic compounds (OC) shall not exceed 0.24 lbs/hour, 1.1 TPY.

Exempt. See section A.I.2.d.

Particulate emissions (PE) shall not exceed 1.8 TPY.

No visible particulate emissions shall be exhausted from the stack.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B)(5)(a), 3745-21-08 and 3745-23-06.

PE shall not exceed 0.25 lb/mmBtu of actual heat input.

See section A.I.2.a.

PE shall not exceed 0.310 lb/mmBtu of actual heat input.

**2. Additional Terms and Conditions**

- 2.a** The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b** This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 06-07002.
- 2.d** OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to, or less than, 10 mmBtu/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 1.32 mmBtu/hr.

**II. Operational Restrictions**

- 1. The permittee shall use only methane to run this emissions unit.

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

- 1. For each day during which the permittee burns a fuel other than methane gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall perform biweekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. the total duration of any visible emission incident; and
  - c. any corrective actions taken to eliminate the visible emissions.

**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than methane gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA Southeast District Office by February 15 and August 15 of each year and shall cover the previous 6-month period.

**V. Testing Requirements**

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

- a. Emissions Limitation:  
Emissions of NO<sub>x</sub> shall not exceed 0.48 lbs/hour, 2.1 TPY.

## Compliance Method:

Compliance with the lb/hour NO<sub>x</sub> emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 7. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- b. Emissions Limitation:  
Emissions of CO shall not exceed 0.48 lbs/hour, 2.1 TPY.

## Compliance Method:

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (2 g/hp-hour, equivalent to 0.48 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 10. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- c. Emission Limitation:

Emissions of OC shall not exceed 0.24 lbs/hour, 1.1 TPY.

Compliance Method:

Compliance with the lb/hour CO emissions limitation shall be demonstrated by the use of manufacturer's test data (1 g/hp-hour, equivalent to 0.24 lb/hr at the rated capacity of this engine) for a similar source. The TPY emissions limitation shall be determined by multiplying the test data lb/hour emissions by the actual hours of operation of the emissions unit.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 25A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- d. Emission Limitation:  
PE shall not exceed 0.310 lb/mmBtu of actual heat input. PE shall not exceed 1.8 TPY.

Compliance Method:

Compliance with the lb/hour PE emissions limitation shall be demonstrated by the use of AP-42, Chapter 3.2, Table 3.2-3 (7/00) PE emission factor (0.0095 lb/mmBtu), multiplied by the maximum hourly gas burning capacity of the emission unit (1.32 mmBtu/hr), provided by the permittee.

The TPY emission limitation was developed by multiplying the allowable particulate emission limitation (0.310 lb/mmBtu) by the maximum hourly gas burning capacity of the emissions unit (1.32 mmBtu/hr), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the short term limitation, compliance shall also be shown with the annual emission limitation.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 1-5 and the procedures in OAC rule 3745-17-03 (B)(10). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

- e. Emission Limitation:  
No visible emissions shall be exhausted from the stack.

Compliance Method:

Compliance with the visible emissions limitations shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60

**Issued**

Emissions Unit ID: P017

("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

**VI. Miscellaneous Requirements**

None.

**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>
P017 - 107 HP GM engine with a catalytic converter	None	None

**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.

**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>
P018 - 100 HP GM engine	OAC rule 3745-31-05 (A)(3)
	OAC rule 3745-17-07 (A)
	OAC rule 3745-21-08
	OAC rule 3745-23-06
	OAC rule 3745-18-06(B)
	OAC rule 3745-17-11(B)(5)(a)

Applicable Emissions  
Limitations/Control  
Measures

Emissions of nitrogen oxides (NOx) shall not exceed 5.06 lbs/hour, 22.2 TPY.

See section A.I.2.b.

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Emissions of carbon monoxide (CO) shall not exceed 0.40 lb/hour, 1.8 TPY.

See section A.I.2.c.

Emissions of organic compounds (OC) shall not exceed 1.83 lbs/hour, 8.0 TPY.

Exempt. See section A.I.2.d.

Particulate emissions (PE) shall not exceed 1.7 TPY.

No visible particulate emissions shall be exhausted from the stack.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B)(5)(a), 3745-21-08 and 3745-23-06.

PE shall not exceed 0.25 lb/mmBtu of actual heat input.

See section A.I.2.a.

PE shall not exceed 0.310 lb/mmBtu of actual heat input.

**2. Additional Terms and Conditions**

- 2.a** The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b** This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 06-07002.
- 2.d** OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to, or less than, 10 mmBtu/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 1.24 mmBtu/hr.

**II. Operational Restrictions**

- 1. The permittee shall use only methane to run this emissions unit.

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

- 1. For each day during which the permittee burns a fuel other than methane gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall perform biweekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. the total duration of any visible emission incident; and
  - c. any corrective actions taken to eliminate the visible emissions.

#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than methane gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA Southeast District Office by February 15 and August 15 of each year and shall cover the previous 6-month period.

#### V. Testing Requirements

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

- a. Emissions Limitation:

Emissions of NO<sub>x</sub> shall not exceed 5.06 lbs/hour, 22.2 TPY.

Compliance Method:

Compliance shall be demonstrated by multiplying the NO<sub>x</sub> emission factor of 4.08 lbs/mmBtu by the maximum hourly gas burning capacity of the emissions unit (1.24 mmBtu/hr). The CO emission factor was obtained from AP-42, Chapter 3.2, Table 3.2-2, dated July, 2000.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 7. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

The TPY emission limitation was developed by multiplying the allowable hourly emission rate (5.06 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

- b. Emissions Limitation:

Emissions of CO shall not exceed 0.40 lbs/hour, 1.8 TPY.

Compliance Method:

Compliance shall be demonstrated by multiplying the CO emission factor of 0.317 lbs/mmBtu by the maximum hourly gas burning capacity of the emissions unit (1.24 mmBtu/hr). The CO emission factor was obtained from AP-42, Chapter 3.2, Table 3.2-2, dated July, 2000.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 10. Alternative U.S. EPA approved test methods may be

used with prior approval from the Ohio EPA Southeast District Office.

The TPY emission limitation was developed by multiplying the allowable hourly emission rate (0.40 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

- c. Emission Limitation:  
Emissions of OC shall not exceed 1.83 lbs/hr, 8.0 TPY.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the OC emission factor of 1.47 lbs/mmBtu by the maximum hourly gas burning capacity of the emissions unit (1.24 mmBtu/hr). The OC emission factor was obtained from AP-42, Chapter 3.2, Table 3.2-2, dated July, 2000.

If required, emission testing shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 25A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

The TPY emission limitation was developed by multiplying the allowable hourly emission rate (1.83 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

- d. Emission Limitation:  
PE shall not exceed 0.310 lb/mmBtu of actual heat input. PE shall not exceed 1.7 TPY.

Compliance Method:

Compliance with the lb/hour PE emissions limitation shall be demonstrated by the use of AP-42, Chapter 3.2, Table 3.2-2 (7/00) PE emission factor (0.0000771 lb/mmBtu), multiplied by the maximum hourly gas burning capacity of the emission unit (1.24 mmBtu/hr), provided by the permittee.

Emissions testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 1-5 and the procedures in OAC rule 3745-17-03 (B)(10). Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

**Issued**

Emissions Unit ID: P018

The TPY emission limitation was developed by multiplying the allowable particulate emission limitation (0.310 lb/mmBtu) by the maximum hourly gas burning capacity of the emissions unit (1.24 mmBtu/hr), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the short term limitation, compliance shall also be shown with the annual emission limitation.

- e. Emission Limitation:  
No visible emissions shall be exhausted from the stack.

## Compliance Method:

Compliance with the visible emissions limitations shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

**VI. Miscellaneous Requirements**

None.

**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>
P018 - 100 HP GM engine	None	None

**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.