



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL MODIFICATION
STARK COUNTY**

CERTIFIED MAIL

Street Address:

50 West Town Street, Suite 700

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

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049

Application No: 15-01689

Fac ID: 1576941989

DATE: 9/18/2007

Pendragon Energy Inc.
Dave Elliot
4025 Cleveland Ave., NW Suite D
Canton, OH 44709

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

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

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

Sincerely,

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

CC: USEPA

Canton LAA



Permit To Install
Terms and Conditions

Issue Date: 9/18/2007
Effective Date: 9/18/2007

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 15-01689

Application Number: 15-01689
Facility ID: 1576941989
Permit Fee: **\$200**
Name of Facility: Pendragon Energy Inc.
Person to Contact: Dave Elliot
Address: 4025 Cleveland Ave., NW Suite D
Canton, OH 44709

Location of proposed air contaminant source(s) [emissions unit(s)]:
4025 Cleveland Ave., NW Suite D
Canton, Ohio

Description of proposed emissions unit(s):
State only PTI administrative modification for a 0.53 mmBtu/hr. ng fired compressor engine.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director

Pendragon Energy Inc.
PTI Application: 15-01689
Modification Issued: 9/18/2007

Facility ID: 157694198

Administrative Modification for Final Issued on September 18, 2007 Part I - GENERAL TERMS AND CONDITIONS

A. 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

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may,

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subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. 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 verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. 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 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. 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 emissions unit(s) that is (are) served by such control system(s).

6. 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.

7. 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.

8. 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.

9. Construction of New Sources(s)

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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.

10. 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.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. 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

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. 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 - (P002) - 0.53 mmBtu/hr. ng fired compressor engine with catalytic converter for NO_x control. It is designated as Oak Park no. 3.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(a).</p> <p>Particulate emissions (PE) from the stack shall not exceed 0.17 lb/hr, 0.8 TPY.</p> <p>Nitrogen Oxides (NO_x) emissions from the stack shall not exceed 1.3 lb/hour, 5.7 TPY.</p> <p>Carbon Monoxide (CO) emissions from the stack shall not exceed 2.1 lb/hour, 9.2 TPY.</p> <p>Organic Compounds (OC) emissions from the stack shall not exceed 0.2 lb/hour, 0.9 TPY.</p> <p>No visible particulate emissions shall be exhausted from the stack.</p>
OAC rule 3745-17-11(B)(5)(a)	<p>PE from the stack shall not exceed 0.310 lb/MMBTU of actual heat input. See A.2.b below</p> <p>PE from the stack shall not exceed 0.25 lb/MMBTU actual heat input. See A.1.2.c below.</p>
OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

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OAC rule 3745-18-06(B)

This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a** The permittee shall burn only methane in this emissions unit.
- 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 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.

B. Operational Restrictions

None.

C. 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.

D. 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.

E. Testing Requirements

- 1. Emission Limitation:
Particulate emissions (PE) from the stack shall not exceed 0.17 lb/hr, 0.8 TPY.

Compliance Method:

Compliance with the particulate matter emission limit of 0.17 lb/hr and 0.8 TPY shall be demonstrated by the use of the AP-42, Table 3.2-3 (7/00) emission factor for Natural

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Gas Fired Pipeline Compressor Engines (9.5×10^{-3} lb of particulate matter/MMBTU of actual heat input). Emission tests also may be required in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03. No emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04 (A). Calculations are shown below.

$$(0.0095 \text{ lb MMBTU})(0.56 \text{ MMBTU/hr}) = 0.005 \text{ lb/hr}$$
$$(0.17 \text{ lb/hr})(8760 \text{ hr/yr})(0.0005 \text{ ton/lb}) = 0.8 \text{ ton/yr}$$

Emissions Unit ID: **P002**

2. Emissions Limitation:
 Nitrogen Oxides (NO_x) emissions from the stack shall not exceed 1.3 lb/hour, 5.7 TPY.

Compliance Method:

Compliance with the 1.3 lb/hour and 5.7 TPY NO_x emissions limitation shall be demonstrated by the use of manufacturer's emissions data or most recent emissions testing data. Calculations are shown below.

$$(9.90 \text{ g/bhp-hr})(60 \text{ bhp})(1 \text{ lb}/454 \text{ g}) = 1.3 \text{ lb/hr}$$

$$(1.3 \text{ lb/hr})(8760 \text{ hr/yr})(0.0005 \text{ ton/lb}) = 5.64 \text{ ton/yr}$$

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.

3. Emissions Limitation:
 Carbon Monoxide (CO) emissions from the stack shall not exceed 2.1 lb/hour, 9.2 TPY.

Compliance Method:

Compliance with the 2.1 lb/hour and 9.2 TPY CO emissions limitation shall be demonstrated by the use of manufacturer's emissions data or most recent emissions testing data. Calculations are shown below.

$$(16.20 \text{ g/bhp-hr})(60 \text{ bhp})(1 \text{ lb}/454 \text{ g}) = 2.1 \text{ lb/hr}$$

$$(2.1 \text{ lb/hr})(8760 \text{ hr/yr})(0.0005 \text{ ton/lb}) = 9.2 \text{ ton/yr}$$

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.

4. Emission Limitation:
 Organic Compounds (OC) emissions from the stack shall not exceed 0.2 lb/hour, 0.9 TPY.

Compliance Method:

Compliance with the 0.2 lb/hour and 0.9 TPY OC emissions limitation shall be demonstrated by the use of manufacturer's emissions data or most recent emissions testing data. Calculations are shown below.

$$(1.2 \text{ g/bhp-hr})(60 \text{ bhp})(1 \text{ lb}/454 \text{ g}) = 0.15 \text{ lb/hr}$$

$$(0.15 \text{ lb/hr})(8760 \text{ hr/yr})(0.0005 \text{ ton/lb}) = 0.7 \text{ ton/yr}$$

Emissions Unit ID: **P002**

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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.

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5. Emission Limitation:
No visible particulate 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, 2002.

6. Emission Limitation:
Particulate emissions from the stack shall not exceed 0.310 lb/MMBtu of actual heat input.
Particulate emissions from the stack shall not exceed 0.25 lb/MMBtu actual heat input.

Compliance Method:

Compliance shall be demonstrated by the use of the AP-42, Table 3.2-3 (7/00) emission factor for Natural Gas Fired Pipeline Compressor Engines (9.5×10^{-3} lb of particulate matter/MMBtu of actual heat input). Emission tests also may be required in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03. No emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04 (A). Calculations are shown below.

$$(0.0095 \text{ lb MMBtu})(0.56 \text{ MMBtu/hr}) = 0.005 \text{ lb/hr}$$

Note: When the SIP revision is approved by the U.S. EPA, the 0.25 lb/MMBtu actual heat input emission limitation will no longer be applicable.

F. Miscellaneous Requirements

1. Notice to Relocate a Portable or Mobile Source

Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable source may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable source shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:

- a. The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):

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- i. the portable source is equipped with the best available technology for such portable source;
 - ii. the portable source is operating pursuant to a currently effective permit to install, permit to operate (PTO), or registration status;
 - iii. the applicant has provided proper notice of the intent to relocate the portable source to the (1.) Ohio EPA District Office or local air agency responsible for the permit(s) for the source and (2.) the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and
 - iv. in the judgement of the Ohio EPA District Office or local air agency having jurisdiction over the new site, the proposed site is acceptable under OAC rule 3745-15-07.
- b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable source may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:
- i. the portable source permittee possesses an Ohio EPA PTI, PTO or registration status;
 - ii. the portable source is equipped with best available technology;
 - iii. the portable source owner has identified the proposed site to Ohio EPA;
 - iv. Ohio EPA has determined that the portable source, at the proposed site, will have an acceptable environmental impact;
 - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - vi. the owner of the proposed site has provided the portable source owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable source to this proposed site; and
 - vii. the portable source owner has provided Ohio EPA with 15 days written notice of the relocation.

Emissions Unit ID: P002

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the permitting Ohio EPA District Office or local air agency and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable source must file a " Notice of Intent to Relocate" within the specified time frame (30 or 15 days), prior to the relocation of the portable source with the Ohio EPA District Office or local air agency responsible for the permits for the source and the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site. Upon receipt of the notice, the Ohio EPA District Office or local air agency responsible for the permits for the portable source, and/or appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.