



State of Ohio Environmental Protection Agency

Street Address:

Mailing Address:

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

Lazarus Gov.  
Center

**RE: DRAFT PERMIT TO INSTALL  
DEFIANCE COUNTY  
Application No: 03-13598**

**CERTIFIED MAIL**

**DATE: 5/17/2001**

Defiance Energy  
Gary Hughes  
26427 State Route 281 East  
Defiance, OH

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$600** will be due. Please do not submit any payment now.

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. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Very truly yours,

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

CC: USEPA

NWDO



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install  
Terms and Conditions**

**Issue Date: To be entered upon final issuance  
Effective Date: To be entered upon final issuance**

**DRAFT PERMIT TO INSTALL 03-13598**

Application Number: 03-13598  
APS Premise Number: 0320010044  
Permit Fee: **To be entered upon final issuance**  
Name of Facility: Defiance Energy  
Person to Contact: Gary Hughes  
Address: 26427 State Route 281 East  
Defiance, OH 43512

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**26427 State Route 281 East, c/o GMC  
Defiance, Ohio**

Description of proposed emissions unit(s):  
**Three (3) 22 MM Btu natural gas boilers, issued under PTI number 03-13364 to GM Powertain, are being transferred to Defiance Energy, LLC.**

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

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Director

Issued: To be entered upon final issuance

## 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 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 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 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. 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, 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

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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)**

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

**Defiance Energy**

**PTI Application: 03-13598**

**Issued: To be entered upon final issuance**

lead to such sanctions

**Facility ID: 0320010044**

**Issued: To be entered upon final issuance**

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 application must be made to the Director for the installation or modification of any other emissions unit(s).

**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 this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

- 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

**Defiance Energy**  
**PTI Application: 03-13598**

**Facility ID: 0320010044**

**Issued: To be entered upon final issuance**

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.

#### **14. 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.

#### **15. 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.

### **B. 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>
NOx	9.64
CO	24.3
PE	5.70

**Defiance Energy**  
**PTI Application 03-12500**  
**Issue**

**Facility ID: 0320010044**

Emissions Unit ID: B001

Defia

PTI /

Emissions Unit ID: B001

Issued: To be entered upon final issuance

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	40 CFR Part 60, Subpart Dc
B001 - 22 mmBtu/hr natural gas fired boiler - CUC boiler # 1	40 <u>CFR</u> Part 52.21 OAC rule 3745-31-(10-20)  OAC rule 3745-31-05(D)   OAC rule 3745-31-05(A)	
	OAC rule 3745-17-10(B)	
	OAC rule 3745-17-07(A)	

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PTI

Emissions Unit ID: B001

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Applicable Emissions  
Limitations/Control  
Measures

Recordkeeping (see A.2.c)

control requirements (see A.2.a)

7.78 tons nitrogen oxide (NO<sub>x</sub>) per rolling 12-month period based upon natural gas usage restrictions (see A.2.b)

The requirements of this rule also include compliance with the requirements of 40 CFR Part 52.21/ OAC rule 3745-31-(10-20), OAC rule 3745-17-10(B), OAC rule 3745-17-07(A) and 40 CFR Part 60, Subpart Dc. (See II.1)

1.1 lb NO<sub>x</sub>/hr, 4.82 tons NO<sub>x</sub>/yr

1.85 lbs carbon monoxide (CO)/hr,  
8.1 tons CO/yr

0.44 lb particulate emissions (PE)/hr, 1.9 tons PE/yr

0.020 lb PE/mmBtu of actual heat input

visible PE's shall not exceed 20% opacity as a six-minute average, except as provided by rule

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Emissions Unit ID: B001

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Emissions Unit ID: B001

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**2. Additional Terms and Conditions**

- 2.a** The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a control system meeting the following requirements for control of NO<sub>x</sub> emissions:
  - i. boiler equipped with low NO<sub>x</sub> burners with flue gas recirculation and designed to emit NO<sub>x</sub> at a rate of 50 lbs/mmCf of natural gas burned.
- 2.b** In order to comply with Prevention of Significant Deterioration (PSD) Significant Impact Increment for NO<sub>x</sub>, the permittee has requested federally enforceable restrictions to limit the potential to emit from the emissions units contained in this permit to install by limiting natural gas usage. Combined annual NO<sub>x</sub> emissions from emissions units B001, B002 or B003 and the following exempt emissions units: one pre-heater (2 mmBtu/hr) and one HVAC unit (1 mmBtu/hr), shall not exceed 7.3 tons/yr based upon a rolling, 12-month restriction of natural gas usage (see A.II.2).
- 2.c** The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.
- 2.d** All PE is assumed to be in the form of PM<sub>10</sub>.

**II. Operational Restrictions**

- 1. The permittee shall burn only natural gas in this emissions unit.
- 2. The maximum annual natural gas usage for emissions unit B001, B002 or B003 and the exempted emissions units, one pre-heater (2 mmBtu/hr) and one HVAC unit (1 mmBtu/hr) shall not exceed 311.1 mmCf/yr, combined, based upon a rolling 12-month summation of natural gas usage.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the natural gas usage levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Cumulative natural gas usage (mmCf)</u>
1	25.93
1-2	51.85
1-3	77.78
1-4	103.71
1-5	129.64

Emissions Unit ID: B001

1-6	155.57
1-7	181.50
1-8	207.43
1-9	233.36
1-10	259.29
1-11	285.22
1-12	311.10

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual natural gas usage shall be based upon a rolling 12-month summation of the natural gas usage.

### III. Monitoring and/or Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall maintain monthly records of the following information for emissions unit B001, B002, B003 and the following exempt emissions units: one pre-heater (2 mmBtu/hr) and one HVAC unit (1 mmBtu/hr) :
  - a. the quantity of natural gas combusted, in mmCf;
  - b. for the first 12 months of operation under the provisions of this permit, the cumulative monthly natural gas usage, in mmCf; and
  - c. after the first 12 months of operation under the provisions of this permit, the annual natural gas usage, in mmCf, based on a rolling, 12-month summation of the monthly natural gas usage.
3. In addition to the above information, the permittee shall also record the following information each month for emissions units B001, B002, B003 and the following exempt emissions units: one pre-heater (2 mmBtu/hr) and one HVAC unit (1 mmBtu/hr) :
  - a. the calculated NO<sub>x</sub> emission rate, in tons per month;
  - b. for the first 12 months of operation under the provisions of this permit, the cumulative monthly NO<sub>x</sub> emission rate, in tons; and
  - c. after the first 12 months of operation under the provisions of this permit, the annual NO<sub>x</sub> emission rate, in tons, based on a rolling, 12-month summation of the monthly NO<sub>x</sub> emissions.
4. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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Emissions Unit ID: B001

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#### IV. Reporting Requirements

1. The permittee shall submit deviation(excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports which identify exceedances of any of the following:
  - a. for the first 12 calendar months of operation, all exceedance of the allowable cumulative natural gas usage; and
  - b. the annual natural gas usage restrictions and emission limitation per rolling 12-month period.

#### V. Testing Requirements

1. The permittee shall conduct, or have conducted, emissions testing in accordance with the following requirements:
  - a. The emissions testing shall be conducted within 6 months after start-up of this emissions unit.
  - b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rate for NO<sub>x</sub> and CO.
  - c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate: NO<sub>x</sub>, Method 7 of 40 CFR Part 60, Appendix A.  
CO, Method 10 of 40 CFR Part 60, Appendix A.
  - d. The test shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Director or appropriate Ohio EPA District Office or local air agency.

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

**Defiance Energy**  
**PTI / Permit ID: 03-12500**  
**Issue**

**Facility ID: 0320010044**

Emissions Unit ID: B001

results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee shall include in the report the operating parameters as required in (V)(1)(c) above.

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Emissions Unit ID: B001

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2. Compliance Methods Requirements: Compliance with the emission limitations in section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation: 7.78 tons NO<sub>x</sub> per rolling 12-month period

Applicable Compliance Method: Compliance with the rolling 12-month emission limitation shall be demonstrated by the recordkeeping requirements specified in section A.III.3.

- b. Emission Limitation: 1.1 lbs NO<sub>x</sub>/hr, 4.82 tons NO<sub>x</sub>/yr

Applicable Compliance Method: Compliance with the lb/hr limitation shall be determined through the testing required in sections A.V.1 and A.V.2 of the terms and conditions of this permit. Ongoing compliance with the lb/hr limitation shall be demonstrated through emission testing in accordance with Ohio EPA, Office of Air Pollution Control, Division of Engineering, Engineering Guide #16.

The tons/yr emission limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hours/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 1.85 lbs CO/hr, 8.1 tons CO/yr

Applicable Compliance Method: Compliance with the lb/hr limitation shall be determined through the testing required in sections A.V.1 and A.V.2 of the terms and conditions of this permit. Ongoing compliance with the lb/hr limitation shall be demonstrated through emission testing in accordance with Ohio EPA, Office of Air Pollution Control, Division of Engineering, Engineering Guide #16.

The tons/yr emission limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hours/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- d. Emission Limitation: 0.44 lb PE/hr, 1.9 tons PE/yr

Applicable Compliance Method: The lb PE/hr was determined by multiplying the maximum heat input capacity of the boiler (22 mmBtu/hr) by the allowable emission rate of 0.020 lb PE/mmBtu of actual heat input. Therefore, provided compliance is shown

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Emissions Unit ID: B001

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with OAC 3745-17-10(B), compliance will also be shown with the lb/hr allowable.

The tons/yr emission limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hours/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- e. Emission Limitation: 0.020 lb PE/mmBtu of actual heat input

Applicable Compliance Method: The permittee shall demonstrate compliance with this limitation by multiplying the maximum hourly natural gas consumption rate (48,000 cu. ft./hr) by the appropriate emission factor from AP-42, Table 1.4-2 (revised 7/98) [1.9 lbs PE (filtrable)/mmCf. ft.] and dividing by the maximum heat input capacity of the boiler (22 mmBtu/hr). If required, compliance shall be determined in accordance with OAC rule 3745-17-03(B)(9).

- f. Emission Limitation: 20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method: OAC rule 3745-17-03(B)(1)

## VI. Miscellaneous Requirements

NONE

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

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

- 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>
B002 - 22 mmBtu natural gas fired boiler - CUC boiler #2	40 <u>CFR</u> Part 52.21 OAC rule 3745-31-(10-20)	control requirements (see A.2.a)
	OAC rule 3745-31-05(D)	7.78 tons nitrogen oxide (NO <sub>x</sub> ) per rolling 12-month period based upon natural gas usage restrictions (see A.2.b)
	OAC rule 3745-31-05(A)	The requirements of this rule also include compliance with the requirements of 40 <u>CFR</u> Part 52.21/ OAC rule 3745-31-(10-20), OAC rule 3745-17-10(B), OAC rule 3745-17-07(A) and 40 CFR Part 60, Subpart Dc. (See II.1)
		1.1 lb NO <sub>x</sub> /hr, 4.82 tons NO <sub>x</sub> /yr
		1.85 lbs carbon monoxide (CO)/hr, 8.1 tons CO/yr
		0.44 lb particulate emissions (PE)/hr, 1.9 tons PE/yr
	OAC rule 3745-17-10(B)	0.020 lb PE/mmBtu of actual heat input
	OAC rule 3745-17-07(A)	visible PE's shall not exceed 20% opacity as a six-minute average, except as provided by rule
	40 CFR Part 60, Subpart Dc	Recordkeeping (see A.2.c)

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Emissions Unit ID: B002

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**2. Additional Terms and Conditions**

- 2.a** The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a control system meeting the following requirements for control of NO<sub>x</sub> emissions:
  - i. boiler equipped with low NO<sub>x</sub> burners with flue gas recirculation and designed to emit NO<sub>x</sub> at a rate of 50 lbs/mmCf of natural gas burned.
- 2.b** In order to comply with Prevention of Significant Deterioration (PSD) Significant Impact Increment for NO<sub>x</sub>, the permittee has requested federally enforceable restrictions to limit the potential to emit from the emissions units contained in this permit to install by limiting natural gas usage. Combined annual NO<sub>x</sub> emissions from emissions units B001, B002 or B003 and the following exempt emissions units: one pre-heater (2 mmBtu/hr) and one HVAC unit (1 mmBtu/hr), shall not exceed 7.3 tons/yr based upon a rolling, 12-month restriction of natural gas usage (see A.II.2).
- 2.c** The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.
- 2.d** All PE is assumed to be in the form of PM<sub>10</sub>.

**II. Operational Restrictions**

- 1. The permittee shall burn only natural gas in this emissions unit.
- 2. The maximum annual natural gas usage for emissions unit B001, B002 or B003 and the exempted emissions units, one pre-heater (2 mmBtu/hr) and one HVAC unit (1 mmBtu/hr) shall not exceed 311.1 mmCf/yr, combined, based upon a rolling 12-month summation of natural gas usage.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the natural gas usage levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Cumulative natural gas usage (mmCf)</u>
1	25.93
1-2	51.85
1-3	77.78
1-4	103.71
1-5	129.64

Defia

PTI /

Emissions Unit ID: B002

**Issued: To be entered upon final issuance**

1-6	155.57
1-7	181.50
1-8	207.43
1-9	233.36
1-10	259.29
1-11	285.22
1-12	311.10

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual natural gas usage shall be based upon a rolling 12-month summation of the natural gas usage.

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

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall maintain monthly records of the following information for emissions unit B001, B002, B003 and the following exempt emissions units: one pre-heater (2 mmBtu/hr) and one HVAC unit (1 mmBtu/hr) :
  - a. the quantity of natural gas combusted, in mmCf;
  - b. for the first 12 months of operation under the provisions of this permit, the cumulative monthly natural gas usage, in mmCf; and
  - c. after the first 12 months of operation under the provisions of this permit, the annual natural gas usage, in mmCf, based on a rolling, 12-month summation of the monthly natural gas usage.
3. In addition to the above information, the permittee shall also record the following information each month for emissions units B001, B002, B003 and the following exempt emissions units: one pre-heater (2 mmBtu/hr) and one HVAC unit (1 mmBtu/hr) :
  - a. the calculated NO<sub>x</sub> emission rate, in tons per month;
  - b. for the first 12 months of operation under the provisions of this permit, the cumulative monthly NO<sub>x</sub> emission rate, in tons; and
  - c. after the first 12 months of operation under the provisions of this permit, the annual NO<sub>x</sub> emission rate, in tons, based on a rolling, 12-month summation of the monthly NO<sub>x</sub>

emissions.

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

#### IV. Reporting Requirements

1. The permittee shall submit deviation(excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports which identify exceedances of any of the following:
  - a. for the first 12 calendar months of operation, all exceedance of the allowable cumulative natural gas usage; and
  - b. the annual natural gas usage restrictions and emission limitation per rolling 12-month period.

#### V. Testing Requirements

1. The permittee shall conduct, or have conducted, emissions testing in accordance with the following requirements:
  - a. The emissions testing shall be conducted within 6 months after start-up of this emissions unit.
  - b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rate for NO<sub>x</sub> and CO.
  - c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate: NO<sub>x</sub>, Method 7 of 40 CFR Part 60, Appendix A.  
CO, Method 10 of 40 CFR Part 60, Appendix A.
  - d. The test shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Director or appropriate Ohio EPA District Office or local air agency.

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

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**PTI /**

Emissions Unit ID: B002

**Issued: To be entered upon final issuance**

results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee shall include in the report the operating parameters as required in (V)(1)(c) above.

2. Compliance Methods Requirements: Compliance with the emission limitations in section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation: 7.78 tons NO<sub>x</sub> per rolling 12-month period

Applicable Compliance Method: Compliance with the rolling 12-month emission limitation shall be demonstrated by the recordkeeping requirements specified in section A.III.3.

- b. Emission Limitation: 1.1 lbs NO<sub>x</sub>/hr, 4.82 tons NO<sub>x</sub>/yr

Applicable Compliance Method: Compliance with the lb/hr limitation shall be determined through the testing required in sections A.V.1 and A.V.2 of the terms and conditions of this permit. Ongoing compliance with the lb/hr limitation shall be demonstrated through emission testing in accordance with Ohio EPA, Office of Air Pollution Control, Division of Engineering, Engineering Guide #16.

The tons/yr emission limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hours/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 1.85 lbs CO/hr, 8.1 tons CO/yr

Applicable Compliance Method: Compliance with the lb/hr limitation shall be determined through the testing required in sections A.V.1 and A.V.2 of the terms and conditions of this permit. Ongoing compliance with the lb/hr limitation shall be demonstrated through emission testing in accordance with Ohio EPA, Office of Air Pollution Control, Division of Engineering, Engineering Guide #16.

The tons/yr emission limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hours/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- d. Emission Limitation: 0.44 lb PE/hr, 1.9 tons PE/yr

Applicable Compliance Method: The lb PE/hr was determined by multiplying the maximum heat input capacity of the boiler (22 mmBtu/hr) by the allowable emission rate of 0.020 lb PE/mmBtu of actual heat input. Therefore, provided compliance is shown with OAC 3745-17-10(B), compliance will also be shown with the lb/hr allowable.

The tons/yr emission limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hours/yr and dividing by 2000 lbs/ton. Therefore,

Defia

PTI /

Emissions Unit ID: B002

**Issued: To be entered upon final issuance**

provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- e. Emission Limitation: 0.020 lb PE/mmBtu of actual heat input

Applicable Compliance Method: The permittee shall demonstrate compliance with this limitation by multiplying the maximum hourly natural gas consumption rate (48,000 cu. ft./hr) by the appropriate emission factor from AP-42, Table 1.4-2 (revised 7/98) [1.9 lbs PE (filtrable)/mmCf. ft.] and dividing by the maximum heat input capacity of the boiler (22 mmBtu/hr). If required, compliance shall be determined in accordance with OAC rule 3745-17-03(B)(9).

- f. Emission Limitation: 20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method: OAC rule 3745-17-03(B)(1)

**VI. Miscellaneous Requirements**

NONE

Defia

PTI

Emissions Unit ID: B003

Issued: To be entered upon final issuance

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	40 CFR Part 60, Subpart Dc
B003 - 22 mmBtu/hr natural gas fired boiler - CUC boiler # 3	40 <u>CFR</u> Part 52.21 OAC rule 3745-31-(10-20)  OAC rule 3745-31-05(D)   OAC rule 3745-31-05(A)	
	OAC rule 3745-17-10(B)	
	OAC rule 3745-17-07(A)	

**Defiance Energy**  
**PTI**  
**Issue**

**Facility ID: 0320010044**

Emissions Unit ID: B003

Applicable Emissions  
Limitations/Control  
Measures

control requirements (see  
A.2.a)

7.78 tons nitrogen oxide  
(NO<sub>x</sub>) per rolling 12-month  
period based upon natural  
gas usage restrictions (see  
A.2.b)

The requirements of this rule  
also include compliance with  
the requirements of 40 CFR  
Part 52.21/ OAC rule  
3745-31-(10-20), OAC rule  
3745-17-10(B), OAC rule  
3745-17-07(A) and 40 CFR  
Part 60, Subpart Dc.  
(See II.1)

1.1 lb NO<sub>x</sub>/hr, 4.82 tons  
NO<sub>x</sub>/yr

1.85 lbs carbon monoxide  
(CO)/hr,  
8.1 tons CO/yr

0.44 lb particulate emissions  
(PE)/hr, 1.9 tons PE/yr

0.020 lb PE/mmBtu of actual  
heat input

visible PE's shall not exceed  
20% opacity as a six-minute  
average, except as provided  
by rule

Recordkeeping (see A.2.c)

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PTI /

Emissions Unit ID: B003

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**2. Additional Terms and Conditions**

- 2.a** The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a control system meeting the following requirements for control of NO<sub>x</sub> emissions:
  - i. boiler equipped with low NO<sub>x</sub> burners with flue gas recirculation and designed to emit NO<sub>x</sub> at a rate of 50 lbs/mmCf of natural gas burned.
- 2.b** In order to comply with Prevention of Significant Deterioration (PSD) Significant Impact Increment for NO<sub>x</sub>, the permittee has requested federally enforceable restrictions to limit the potential to emit from the emissions units contained in this permit to install by limiting natural gas usage. Combined annual NO<sub>x</sub> emissions from emissions units B001, B002 or B003 and the following exempt emissions units: one pre-heater (2 mmBtu/hr) and one HVAC unit (1 mmBtu/hr), shall not exceed 7.3 tons/yr based upon a rolling, 12-month restriction of natural gas usage (see A.II.2).
- 2.c** The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.
- 2.d** All PE is assumed to be in the form of PM<sub>10</sub>.

**II. Operational Restrictions**

- 1. The permittee shall burn only natural gas in this emissions unit.
- 2. The maximum annual natural gas usage for emissions unit B001, B002 or B003 and the exempted emissions units, one pre-heater (2 mmBtu/hr) and one HVAC unit (1 mmBtu/hr) shall not exceed 311.1 mmCf/yr, combined, based upon a rolling 12-month summation of natural gas usage.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the natural gas usage levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Cumulative natural gas usage (mmCf)</u>
1	25.93
1-2	51.85
1-3	77.78
1-4	103.71
1-5	129.64

Defia

PTI

Emissions Unit ID: B003

**Issued: To be entered upon final issuance**

1-6	155.57
1-7	181.50
1-8	207.43
1-9	233.36
1-10	259.29
1-11	285.22
1-12	311.10

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual natural gas usage shall be based upon a rolling 12-month summation of the natural gas usage.

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

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall maintain monthly records of the following information for emissions unit B001, B002, B003 and the following exempt emissions units: one pre-heater (2 mmBtu/hr) and one HVAC unit (1 mmBtu/hr) :
  - a. the quantity of natural gas combusted, in mmCf;
  - b. for the first 12 months of operation under the provisions of this permit, the cumulative monthly natural gas usage, in mmCf; and
  - c. after the first 12 months of operation under the provisions of this permit, the annual natural gas usage, in mmCf, based on a rolling, 12-month summation of the monthly natural gas usage.
3. In addition to the above information, the permittee shall also record the following information each month for emissions units B001, B002, B003 and the following exempt emissions units: one pre-heater (2 mmBtu/hr) and one HVAC unit (1 mmBtu/hr) :
  - a. the calculated NO<sub>x</sub> emission rate, in tons per month;
  - b. for the first 12 months of operation under the provisions of this permit, the cumulative monthly NO<sub>x</sub> emission rate, in tons; and
  - c. after the first 12 months of operation under the provisions of this permit, the annual NO<sub>x</sub> emission rate, in tons, based on a rolling, 12-month summation of the monthly NO<sub>x</sub>

emissions.

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

#### IV. Reporting Requirements

1. The permittee shall submit deviation(excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports which identify exceedances of any of the following:
  - a. for the first 12 calendar months of operation, all exceedance of the allowable cumulative natural gas usage; and
  - b. the annual natural gas usage restrictions and emission limitation per rolling 12-month period.

#### V. Testing Requirements

1. The permittee shall conduct, or have conducted, emissions testing in accordance with the following requirements:
  - a. The emissions testing shall be conducted within 6 months after start-up of this emissions unit.
  - b. The emissions testing shall be conducted to demonstrate compliance with the allowable mass emission rate for NO<sub>x</sub> and CO.
  - c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate: NO<sub>x</sub>, Method 7 of 40 CFR Part 60, Appendix A.  
CO, Method 10 of 40 CFR Part 60, Appendix A.
  - d. The test shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Director or appropriate Ohio EPA District Office or local air agency.

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

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**PTI /**

Emissions Unit ID: B003

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results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee shall include in the report the operating parameters as required in (V)(1)(c) above.

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PTI /

Emissions Unit ID: B003

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2. Compliance Methods Requirements: Compliance with the emission limitations in section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation: 7.78 tons NO<sub>x</sub> per rolling 12-month period

Applicable Compliance Method: Compliance with the rolling 12-month emission limitation shall be demonstrated by the recordkeeping requirements specified in section A.III.3.

- b. Emission Limitation: 1.1 lbs NO<sub>x</sub>/hr, 4.82 tons NO<sub>x</sub>/yr

Applicable Compliance Method: Compliance with the lb/hr limitation shall be determined through the testing required in sections A.V.1 and A.V.2 of the terms and conditions of this permit. Ongoing compliance with the lb/hr limitation shall be demonstrated through emission testing in accordance with Ohio EPA, Office of Air Pollution Control, Division of Engineering, Engineering Guide #16.

The tons/yr emission limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hours/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation: 1.85 lbs CO/hr, 8.1 tons CO/yr

Applicable Compliance Method: Compliance with the lb/hr limitation shall be determined through the testing required in sections A.V.1 and A.V.2 of the terms and conditions of this permit. Ongoing compliance with the lb/hr limitation shall be demonstrated through emission testing in accordance with Ohio EPA, Office of Air Pollution Control, Division of Engineering, Engineering Guide #16.

The tons/yr emission limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hours/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- d. Emission Limitation: 0.44 lb PE/hr, 1.9 tons PE/yr

Applicable Compliance Method: The lb PE/hr was determined by multiplying the maximum heat input capacity of the boiler (22 mmBtu/hr) by the allowable emission rate

Emissions Unit ID: B003

of 0.020 lb PE/mmBtu of actual heat input. Therefore, provided compliance is shown with OAC 3745-17-10(B), compliance will also be shown with the lb/hr allowable.

The tons/yr emission limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hours/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- e. Emission Limitation: 0.020 lb PE/mmBtu of actual heat input

Applicable Compliance Method: The permittee shall demonstrate compliance with this limitation by multiplying the maximum hourly natural gas consumption rate (48,000 cu. ft./hr) by the appropriate emission factor from AP-42, Table 1.4-2 (revised 7/98) [1.9 lbs PE (filtrable)/mmCf. ft.] and dividing by the maximum heat input capacity of the boiler (22 mmBtu/hr). If required, compliance shall be determined in accordance with OAC rule 3745-17-03(B)(9).

- f. Emission Limitation: 20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method: OAC rule 3745-17-03(B)(1)

## VI. Miscellaneous Requirements

NONE

**NEW SOURCE REVIEW FORM B**

PTI Number: 03-13598 Facility ID: 0320010044

FACILITY NAME Defiance Energy

FACILITY DESCRIPTION Three (3) 22 MM Btu natural gas boilers, CITY/TWP Defiance  
issued under PTI number 03-13364 to GM  
Powertain, are being transferred to  
Defiance Energy, LLC.

SIC CODE 4961 SCC CODE 1-03-006-02 EMISSIONS UNIT ID B001

EMISSIONS UNIT DESCRIPTION 22 mmBtu/hr natural gas fired boiler - CUC boiler 1

DATE INSTALLED 01/01/2001

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM <sub>10</sub>				0.44	1.9
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides				1.1	4.82
Carbon Monoxide				1.85	8.10
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NPS? NESHAP? **Dc** PSD? **Y** OFFSET POLICY?

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

**Enter Determination**

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY?

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

\$

**TOXIC AIR CONTAMINANTS**

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

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES \_\_\_\_\_ NO

IDENTIFY THE AIR CONTAMINANTS: \_\_\_\_\_

**NEW SOURCE REVIEW FORM B**

PTI Number: 03-13598 Facility ID: 0320010044

FACILITY NAME Defiance Energy

FACILITY DESCRIPTION Three (3) 22 MM Btu natural gas boilers. CITY/TWP Defiance

Emissions Unit ID: B003

SIC CODE 4961 SCC CODE 1-03-006-02 EMISSIONS UNIT ID B002

EMISSIONS UNIT DESCRIPTION 22 mmBtu natural gas fired boiler - CUC boiler 2

DATE INSTALLED 01/01/2001

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM <sub>10</sub>	attainment			0.44	1.9
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides	attainment			1.1	4.82
Carbon Monoxide	attainment			1.85	8.1
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NPSPS?

NESHAP? **Dc**

PSD? **Y**

OFFSET POLICY?

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

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY?

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

**TOXIC AIR CONTAMINANTS**

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

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES \_\_\_\_\_ NO

IDENTIFY THE AIR CONTAMINANTS: \_\_\_\_\_

**NEW SC**

PTI Num

FACILITY

Emissions Unit ID: B003

FACILITY DESCRIPTION Three (3) 22 MM Btu natural gas boilers, CITY/TWP Defiance  
 issued under PTI number 03-13364 to GM  
 Powertain, are being transferred to  
 Defiance Energy, LLC.

SIC CODE 4961 SCC CODE 1-03-006-02 EMISSIONS UNIT ID B003  
 EMISSIONS UNIT DESCRIPTION 22 mmBtu/hr natural gas fired boiler - CUC boiler 3  
 DATE INSTALLED 01/01/2001

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM <sub>10</sub>	attainment			0.44	1.90
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides	attainment			1.10	4.82
Carbon Monoxide	attainment			1.85	8.10
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? **Dc** PSD? **Y** OFFSET POLICY?

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

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY?

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

**TOXIC AIR CONTAMINANTS**

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

AIR TOXICS MODELING PERFORMED\*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

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

Please fill out the following. If the checkbox does not work, replace it with an 'X'

Electronic	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	<u>Hard Copy</u>	<u>None</u>
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36 **NEW SOURCE REVIEW FORM B**

PTI Number: 03-13598

Facility ID: 0320010044

FACILITY NAME Defiance Energy

FACILITY DESCRIPTION Three (3) 22 MM Btu natural gas boilers. CITY/TWP Defiance

Emissions Unit ID: B003

<a href="#">Calculations (required)</a>	<input checked="" type="checkbox"/>	0313364c.wpd	<input type="checkbox"/>	
Modeling form/results	<input type="checkbox"/>	0000000s.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PTI Application (complete or partial)*	<input type="checkbox"/>	0000000a.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BAT Study	<input type="checkbox"/>	0000000b.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other/misc.	<input type="checkbox"/>	0000000t.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

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

**NSR Discussion**

These boilers were issued under GM Powertrain, Defiance Plant, PTI number 03-13364. A BACT analysis was completed because PSD was triggered for NOx emissions. This PTI is being completed to transfer ownership of these boilers to Defiance Energy, LLC as they will own and operate these emission sources. Terms and conditions will remain as issued in the GM Powertrain permit, although these units, alone, do not trigger PSD .

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

**Synthetic Minor Determination and/or**  **Netting Determination**  
Permit To Install **ENTER PTI NUMBER HERE**

- A. Source Description
- B. Facility Emissions and Attainment Status
- C. Source Emissions
- D. Conclusion

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

NONE

Please complete:

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

<u>Pollutant</u>	<u>Tons Per Year</u>
NOx	9.64
CO	24.3
PE	5.70