



State of Ohio Environmental Protection Agency

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

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 08-04211

DATE: 11/28/2000

DMAX Ltd
Dave Hackett
3100 Dryden Rd
Moraine, OH 45439-0000

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

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

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

Very truly yours,

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

CC: USEPA

RAPCA



Permit To Install

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

FINAL PERMIT TO INSTALL 08-04211

Application Number: 08-04211
APS Premise Number: 0857103196
Permit Fee: **\$200**
Name of Facility: DMAX Ltd
Person to Contact: Dave Hackett
Address: 3100 Dryden Rd
Moraine, OH 45439-0000

Location of proposed air contaminant source(s) [emissions unit(s)]:
3100 Dryden Rd
Moraine, Ohio

Description of proposed emissions unit(s):
engine audit test stands 1 and 2; chapter 31 replacing 08-3840 issued 7-15-98.

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. 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 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 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 are inadequate 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 prove to be inadequate 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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This 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 emissions unit(s) covered by this permit.

DMAX Ltd
PTI Application: 08-04211
Issued: 11/28/2000

Facility ID: 0857103196

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>
NO _x	27.02
CO	13.5
VOC	1.36
SO ₂	6.30
Particulate	6.47

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>	<u>Applicable Emissions Limitations/Control Measures</u>
P010 - Engine Audit Test Stand #1, (Modification, See Section	OAC rule 3745-31-05(A)(3)	3.08 lbs/hr and 13.51 TPY NOx; 1.54 lbs/hr and 6.75 TPY CO; 0.15 lb/hr and 0.68 TPY VOC; 0.72 lb/hr and 3.15 TPY SO2; 0.77 lb/hr and 3.37 TPY particulate; and 15% opacity, as a six-minute average
	OAC rule 3745-17-07(A)	The opacity limitation specified by this rule is less stringent than the opacity limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a The 3.08 lbs NOx/hr, 1.54 lbs CO/hr, 0.15 lb VOC/hr, 0.72 lb SO2/hr, and 0.77 lb particulate/hr limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the total number of engines tested; and
 - b. the total number of hours for testing engines.

D. Reporting Requirements

1. The permittee shall submit annual reports which specify the total NOx emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the emission limitations Section A.I.1. of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation -
3.08 lbs/hr NOx

Applicable Compliance Method -
Compliance shall be demonstrated by multiplying the company derived emission factor, 4.0 grams NOx/hp-hr, by the maximum horsepower output rating, 350 hp, and dividing by the conversion factor, 454 grams/pound. Compliance shall also be determined by a stack test using Reference Method 7, as specified in 40 CFR Part 60, Appendix A.
 - b. Emission Limitation -
13.51 TPY NOx

Applicable Compliance Method -
The 13.51 TPY limitation was developed by multiplying the specified allowable emission rate of 3.08 lbs/hr by the maximum annual operating schedule of 8,760 hours/year. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
 - c. Emission Limitation -
1.54 lbs/hr CO

Applicable Compliance Method -

Compliance shall be demonstrated by multiplying the company derived emission factor, 2.0 grams CO/hp-hr, by the maximum horsepower output rating, 350 hp, and dividing by the conversion factor, 454 grams/pound. Compliance shall also be determined by a performance test using the USEPA Reference Method 10, as specified in 40 CFR Part 60, Appendix A.

- d. Emission Limitation -
6.75 TPY CO

Applicable Compliance Method -

The 6.75 TPY limitation was developed by multiplying the specified allowable emission rate of 1.54 lbs/hr by the maximum annual operating schedule of 8,760 hours/year. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- e. Emission Limitation -
0.15 lb/hr VOC

Applicable Compliance Method -

Compliance shall be demonstrated by multiplying the company derived emission factor, 0.2 grams VOC/hp-hr, by the maximum horsepower output rating, 350 hp, and dividing by the conversion factor, 454 grams/pound.

- f. Emission Limitation -
0.68 TPY VOC

Applicable Compliance Method -

The 0.68 TPY limitation was developed by multiplying the specified allowable emission rate of 0.15 lb/hr by the maximum annual operating schedule of 8,760 hours/year. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- g. Emission Limitation -
0.72 lb/hr SO₂

Applicable Compliance Method -

Compliance shall be demonstrated by multiplying the emission factor, 0.931 grams SO₂/hp-hr (AP-42, Table 3.3-1 (10/96)), by the maximum horsepower output rating, 350 hp, and dividing by the conversion factor, 454 grams/pound.

- h. Emission Limitation -
3.15 TPY SO₂

Applicable Compliance Method -

The 3.15 TPY limitation was developed by multiplying the specified allowable emission rate of 0.72 lb/hr by the maximum annual operating schedule of 8,760 hours/year. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

DMAX Ltd

PTI Application: 08 04211

Issued

Facility ID: 0857103196

Emissions Unit ID: P010

- i. Emission Limitation -
0.77 lb/hr particulate

Applicable Compliance Method -

Compliance shall be demonstrated by multiplying the emission factor, 1.0 grams particulate/hp-hr (AP-42, Table 3.3-1 (10/96)), by the maximum horsepower output rating, 350 hp, and dividing by the conversion factor, 454 grams/pound.

- j. Emission Limitation -
3.37 TPY particulate

Applicable Compliance Method -

The 3.37 TPY limitation was developed by multiplying the specified allowable emission rate of 0.77 lb/hr by the maximum annual operating schedule of 8,760 hours/year. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- k. Emission Limitation -
15% opacity, as a six-minute average

Applicable Compliance Method -

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Method 9.

2. The permittee shall conduct or have conducted within 90 days after the start up of these emissions units, an initial performance test to demonstrate compliance with the allowable mass emission rates for NO_x and CO. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), this facility shall submit an "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 units operating parameters, the time(s) and date(s) of the test(s), and the persons 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 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 assure that the emissions unit operation and testing procedures provides a valid characterization

of the emissions from the emissions unit.

A comprehensive written report on the result of the emissions test(s) shall be signed and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. This is a modification to the PTI # 08-3840 and results in the following net increases in emissions for P010 and P011 combined: + 24.08 TPY NO_x, + 12.03 TPY CO, + 1.21 TPY VOC, + 5.62 TPY SO₂, and + 5.74 TPY particulate.

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>	<u>Applicable Emissions Limitations/Control Measures</u>
P011 - Engine Audit Test Stand #2, (Modification, See Section F)	OAC rule 3745-31-05(A)(3)	3.08 lbs/hr and 13.51 TPY NOx; 1.54 lbs/hr and 6.75 TPY CO; 0.15 lb/hr and 0.68 TPY VOC; 0.72 lb/hr and 3.15 TPY SO2; 0.77 lb/hr and 3.37 TPY particulate; and 15% opacity, as a six-minute average
	OAC rule 3745-17-07(A)	The opacity limitation specified by this rule is less stringent than the opacity limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a The 3.08 lbs NOx/hr, 1.54 lbs CO/hr, 0.15 lb VOC/hr, 0.72 lb SO2/hr, and 0.77 lb particulate/hr limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the total number of engines tested; and
 - b. the total number of hours for testing engines.

D. Reporting Requirements

1. The permittee shall submit annual reports which specify the total NOx emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the emission limitations Section A.I.1. of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation -
3.08 lbs/hr NOx

Applicable Compliance Method -
Compliance shall be demonstrated by multiplying the company derived emission factor, 4.0 grams NOx/hp-hr, by the maximum horsepower output rating, 350 hp, and dividing by the conversion factor, 454 grams/pound. Compliance shall also be determined by a stack test using Reference Method 7, as specified in 40 CFR Part 60, Appendix A.
 - b. Emission Limitation -
13.51 TPY NOx

Applicable Compliance Method -
The 13.51 TPY limitation was developed by multiplying the specified allowable emission rate of 3.08 lbs/hr by the maximum annual operating schedule of 8,760 hours/year. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
 - c. Emission Limitation -

1.54 lbs/hr CO

Applicable Compliance Method -

Compliance shall be demonstrated by multiplying the company derived emission factor, 2.0 grams CO/hp-hr, by the maximum horsepower output rating, 350 hp, and dividing by the conversion factor, 454 grams/pound. Compliance shall also be determined by a performance test using the USEPA Reference Method 10, as specified in 40 CFR Part 60, Appendix A.

- d. Emission Limitation -
6.75 TPY CO

Applicable Compliance Method -

The 6.75 TPY limitation was developed by multiplying the specified allowable emission rate of 1.54 lbs/hr by the maximum annual operating schedule of 8,760 hours/year. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- e. Emission Limitation -
0.15 lb/hr VOC

Applicable Compliance Method -

Compliance shall be demonstrated by multiplying the company derived emission factor, 0.2 grams VOC/hp-hr, by the maximum horsepower output rating, 350 hp, and dividing by the conversion factor, 454 grams/pound.

- f. Emission Limitation -
0.68 TPY VOC

Applicable Compliance Method -

The 0.68 TPY limitation was developed by multiplying the specified allowable emission rate of 0.15 lb/hr by the maximum annual operating schedule of 8,760 hours/year. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- g. Emission Limitation -
0.72 lb/hr SO₂

Applicable Compliance Method -

Compliance shall be demonstrated by multiplying the emission factor, 0.931 grams SO₂/hp-hr (AP-42, Table 3.3-1 (10/96)), by the maximum horsepower output rating, 350 hp, and dividing by the conversion factor, 454 grams/pound.

- h. Emission Limitation -
3.15 TPY SO₂

Applicable Compliance Method -

The 3.15 TPY limitation was developed by multiplying the specified allowable emission rate of 0.72 lb/hr by the maximum annual operating schedule of 8,760 hours/year. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

DMAX Ltd

PTI Application: 08 04211

Issued

Facility ID: 0857103196

Emissions Unit ID: P011

- i. Emission Limitation -
0.77 lb/hr particulate

Applicable Compliance Method -

Compliance shall be demonstrated by multiplying the emissions factor, 1.0 prams particulate/hp-hr (AP-42, Table 3.3-1 (10/96)), by the maximum horsepower output rating, 350 hp, and dividing by the conversion factor, 454 grams/pound.

- j. Emission Limitation -
3.37 TPY particulate

Applicable Compliance Method -

The 3.37 TPY limitation was developed by multiplying the specified allowable emission rate of 0.77 lb/hr by the maximum annual operating schedule of 8,760 hours/year. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- k. Emission Limitation -
15% opacity, as a six-minute average

Applicable Compliance Method -

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Method 9.

2. The permittee shall conduct or have conducted within 90 days after the start up of these emissions units, an initial performance test to demonstrate compliance with the allowable mass emission rates for NO_x and CO. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), this facility shall submit an "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 units operating parameters, the time(s) and date(s) of the test(s), and the persons 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 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 assure that the emissions unit operation and testing procedures provides a valid characterization

of the emissions from the emissions unit.

A comprehensive written report on the result of the emissions test(s) shall be signed and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. This is a modification to the PTI # 08-3840 and results in the following net increases in emissions for P010 and P011 combined: + 24.08 TPY NO_x, + 12.03 TPY CO, + 1.21 TPY VOC, + 5.62 TPY SO₂, and + 5.74 TPY particulate.

NEW SOURCE REVIEW FORM B

PTI Number: 08-04211 Facility ID: 0857103196

FACILITY NAME DMAX Ltd

FACILITY DESCRIPTION engine audit test stands 1 and 2: chanter 31 CITY/TWP Moraine

Emissions Unit ID: P011

SIC CODE 3519 SCC CODE 2-04-004-02 EMISSIONS UNIT ID P010

EMISSIONS UNIT DESCRIPTION Engine Audit Test Stand #1

DATE INSTALLED September 99

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	attainment	0.77 lb/hr	3.37	0.77 lb/hr	3.37
PM ₁₀					
Sulfur Dioxide	attainment	0.72 lb/hr	3.15	0.72 lb/hr	3.15
Organic Compounds	attainment	0.15 lb/hr	0.68	0.15 lb/hr	0.68
Nitrogen Oxides	attainment	3.08 lbs/hr	13.51	3.08 lbs/hr	13.51
Carbon Monoxide	attainment	1.54 lbs/hr	6.75	1.54 lbs/hr	6.75
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

Enter Determination BAT is compliance with the applicable OAC rules, specified allowable emission limitations, record keeping and reporting requirements.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

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 X NO

IDENTIFY THE AIR CONTAMINANTS:

NEW SOURCE REVIEW FORM B

PTI Number: 08-04211 Facility ID: 0857103196

FACILITY NAME DMAX Ltd

FACILITY DESCRIPTION engine audit test stands 1 and 2: chanter 31 CITY/TWP Moraine

Emissions Unit ID: **P011**

SIC CODE 3519 SCC CODE 2-04-004-02 EMISSIONS UNIT ID P011

EMISSIONS UNIT DESCRIPTION Engine Audit Test Stand #2

DATE INSTALLED September 1999

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	attainment	0.77 lb/hr	3.37	0.77 lb/hr	3.37
PM ₁₀					
Sulfur Dioxide	attainment	0.72 lb/hr	3.15	0.72 lb/hr	3.15
Organic Compounds	attainment	0.15 lb/hr	0.68	0.15 lb/hr	0.68
Nitrogen Oxides	attainment	3.08 lbs/hr	13.51	3.08 lbs/hr	13.51
Carbon Monoxide	attainment	1.54 lbs/hr	6.75	1.54 lbs/hr	6.75
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

Enter Determination BAT is compliance with the applicable OAC rules, specified allowable emission limitations, record keeping and reporting requirements.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No
 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 X NO

IDENTIFY THE AIR CONTAMINANTS: _____

NEW SOURCE REVIEW FORM B

PTI Number: 08-04211

Facility ID: 0857103196

FACILITY NAME DMAX Ltd

FACILITY DESCRIPTION engine audit test stands 1 and 2: chanter 31 CITY/TWP Moraine

Emissions Unit ID: **P011**

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

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

	<u>Electronic</u>	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	<u>Hard Copy</u>	<u>None</u>
<u>Calculations (required)</u>	<input checked="" type="checkbox"/>	000000c.wpd	<input type="checkbox"/>	
<u>Modeling form/results</u>	<input type="checkbox"/>	000000s.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>PTI Application (complete or partial)*</u>	<input type="checkbox"/>	000000a.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>BAT Study</u>	<input type="checkbox"/>	000000b.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Other/misc.</u>	<input type="checkbox"/>	000000t.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

PTI 08-04211 is a modification to the audit test stands #1 and #2 from PTI # 08-03840. Although PTI # 08-03840 is written synthetic minor, the synthetic minor limitations are no longer necessary because this facility has been separated from the GM/Delphi complex and is now considered a completely separate company. Therefore, DMAX requested this PTI to adjust for the actual operations performed and needed performed in these stands and to take off the synthetic minor limitations. DMAX is located in Montgomery County which is currently in attainment for all pollutants. This facility manufacturers diesel engines for the GM trucks and is not a major source for Title V applicability at this time.

The audit test stands were originally permitted as though 6 engines would be tested in an hour and allowed time for transferring the engines in and out. Therefore, the emissions were based upon an actual run time of eight minutes per engine and an average horsepower of 250. However, these stands were really designed to run extended tests on engine for performance and durability purposes (not to just check to make sure the engine is built correctly like the other test stands). Therefore, the limitations were based upon the maximum horsepower of the engines and the maximum hours of operation multiplied by the AP-42 and company derived emission factors.

The applicable OAC rules are 3745-31-05(A)(3) and 3745-17-07(A). BAT is compliance with the applicable OAC rules, specified allowable emission limitations, record keeping, and reporting requirements.

Prepared By: Maria Cruset

NEW SOURCE REVIEW FORM B

PTI Number: 08-04211

Facility ID: 0857103196

FACILITY NAME DMAX Ltd

FACILITY DESCRIPTION engine audit test stands 1 and 2: chapter 31 CITY/TWP Moraine

Emissions Unit ID: P011

Date: Nov. 16, 2000

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	27.02
CO	13.5
VOC	1.36
SO2	6.30
Particulate	6.47