



State of Ohio Environmental Protection Agency

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

CERTIFIED MAIL

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: 04-01306

DATE: 5/30/2002

Diversified Wood Moulding
Murray Hall
8229 Monroe Rd.
Lambertville, MI 48144

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

TDES



**Permit To Install
Terms and Conditions**

**Issue Date: 5/30/2002
Effective Date: 5/30/2002**

FINAL PERMIT TO INSTALL 04-01306

Application Number: 04-01306
APS Premise Number: 0448011716
Permit Fee: **\$100**
Name of Facility: Diversified Wood Moulding
Person to Contact: Murray Hall
Address: 8229 Monroe Rd.
Lambertville, MI 48144

Location of proposed air contaminant source(s) [emissions unit(s)]:
**2740 Nebraska Ave.
Toledo, Ohio**

Description of proposed emissions unit(s):
150 kW (201 bhp) diesel fueled electric generator.

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 Record keeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping 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 record keeping 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

Diversified Wood Moulding
PTI Application: 04-01306
Issued: 5/30/2002

Facility ID: 0448011716

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

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.

Diversified Wood Moulding
PTI Application: 04-01306
Issued: 5/30/2002

Facility ID: 0448011716

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>
CO	7.1
NO _x	24
PE	2.3
SO ₂	2.2
VOC	2.6

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>
B001 - 150 kW (242 bhp) diesel fueled electric generator	OAC 3745-17-07(A)(1)	20% opacity as a 6-minute average except as provided by rule.
	OAC 3745-17-11(B)(5)(a)	0.310 pound of particulate emissions (PE) per mmBtu.
	OAC 3745-18-06(B)	See A.2.a.
	OAC 3745-21-07(B)	0.60 pound of volatile organic compounds (VOC) per hour.
	OAC 3745-21-08(B)	1.6 pounds of carbon monoxide (CO) per hour.
	OAC 3745-23-06(B)	7.5 pounds of nitrogen oxides (NO _x) per hour.
	OAC rule 3745-31-05(A)(3)	7.1 tons of CO per year, 24 tons of NO _x per year, 2.3 tons of PE per year, 0.50 pound of sulfur dioxide (SO ₂) per hour, 2.2 tons of SO ₂ per year, 2.6 tons of VOC per year, and see A.2.b.

2. Additional Terms and Conditions

- 2.a** Exemption from SO₂ requirements: stationary internal combustion engine less than 10 mmBtu per hour.
- 2.b** The requirements of this rule also include compliance with the requirements of OAC 3745-17-07(A)(1), OAC 3745-17-11(B)(5), OAC 3745-21-07(B), OAC 3745-21-08(B) and OAC 3745-23-06(B).

B. Operational Restrictions

- 1.** The permittee shall use only diesel fuel with a maximum sulfur content of 0.5% by weight for combustion in this emissions unit.
- 2.** The permittee shall maintain and operate a positive crankcase ventilation system at all times when the emissions unit is in operation.
- 3.** Engine ignition shall be retarded at least 4 degrees from peak power settings at all times when the emissions unit is in operation.
- 4.** The maximum annual operating time for this emissions unit shall not exceed 6,500 hours, based upon a 12-month summation of the monthly calendar year operating hours.

C. Monitoring and/or Record keeping Requirements

- 1.** For each day during which the permittee burns a fuel other than diesel fuel with a maximum sulfur content of 0.5% by weight, the permittee shall maintain a record of the type, sulfur content and quantity of fuel burned in this emissions unit.
- 2.** The permittee shall maintain daily records that document any time periods when the positive crankcase ventilation system was not in service when the emissions unit was in operation.
- 3.** The permittee shall maintain daily records that document any time periods when the engine ignition was not retarded at least 4 degrees from peak power settings when the emissions unit was in operation.
- 4.** The permittee shall maintain monthly records of the following information:

- a. The operating hours for each month.
- b. The calendar year summation of the monthly operating hours.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day during which a fuel other than diesel fuel with a maximum sulfur content of 0.5% by weight is used in this emissions unit.
2. The permittee shall submit deviation (excursion) reports that identify each day during which the positive crankcase ventilation system was not in service when the emissions unit was in operation.
3. The permittee shall submit deviation (excursion) reports that identify each day during which the engine ignition was not retarded at least 4 degrees from peak power settings when the emissions unit was in operation.
4. The permittee shall submit deviation (excursion) reports that identify any monthly record which shows that the annual summation of the operating hours exceeds the applicable limitation.
5. Each report shall be submitted within 30 days of the discovery of the deviation.

E. Testing Requirements

1. Compliance with the emission limitation(s) of these terms and conditions shall be determined in accordance with the following methods(s):
 - a. Emission Limitation: 20% opacity as a six-minute average.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with this emission limitation through visible emission readings performed in accordance with Method 9 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC 3745-17-03(B)(1).

- b. Emission Limitation: 1.6 pounds CO per hour.

Applicable Compliance Method: Compliance shall be based upon an emission factor of

Emissions Unit ID: **B001**

0.00668 lb CO per bhp-hr times the maximum capacity of 242 hp for the engine. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, dated 10/96 Section 3.3, Table 3.3-1. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A.

- c. Emission Limitation: 7.1 tons CO per year.

Applicable Compliance Method: This limitation was established by multiplying the 1.6 pounds per hour emission rate by 8,760 hours of operation per year and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

- d. Emission Limitation: 7.5 pounds of NO_x per hour.

Applicable Compliance Method: Compliance shall be based upon an emission factor of 0.031 lb NO_x per bhp-hr times the maximum capacity of 242 hp for the engine. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, dated 10/96 Section 3.3, Table 3.3-1. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and 7 of 40 CFR Part 60, Appendix A.

- e. Emission Limitation: 24 tons NO_x per year.

Applicable Compliance Method: This limitation was established by multiplying the 7.5 pounds per hour emission rate by the maximum allowable operating hours per year and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

- f. Emission Limitation: 0.310 pound PE per mmBtu.

This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, dated 10/96 Section 3.3, Table 3.3-1. If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 5 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(10).

- g. Emission Limitation: 2.3 tons PE per year.

This limitation was established by multiplying the 0.0022 pound per horsepower-hour emissions factor (equivalent to the 0.310 pound PE per mmBtu emissions factor above) times the maximum capacity of 242 hp for the engine, then multiplying by 8,760 hours per year and dividing by 2,000 pounds per ton. These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, dated 10/96 Section 3.3, Table 3.3-1. Therefore, provided compliance is shown with the hourly limitation and the hours of operation restriction, compliance shall also be shown with the annual emission limitation.

- h. Emission Limitation: 0.50 pound of SO₂ per hour.

Applicable Compliance Method: Compliance shall be based upon an emission factor of 0.00205 lb SO₂ per bhp-hr times the maximum capacity of 242 hp for the engine. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, dated 10/96 Section 3.3, Table 3.3-1. If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04.

- i. Emission Limitation: 2.2 tons SO₂ per year.

Applicable Compliance Method: This limitation was established by multiplying the 0.50 pound per hour emission rate by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

- j. Emission Limitation: 0.60 pound VOC per hour.

Applicable Compliance Method: Compliance shall be based upon an emission factor of 0.00247 lb VOC per bhp-hr times the maximum capacity of 242 hp for the engine. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, dated 10/96 Section 3.3, Table 3.3-1. If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 25 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-21-10.

- k. Emission Limitation: 2.6 tons VOC per year.

Applicable Compliance Method: This limitation was established by multiplying the 0.60 pound per hour emission rate by 8,760 hours per year and dividing by 2,000 pounds per

Diversified Wood Moulding
PTI Application: 04-01306
Issued

Facility ID: 0448011716

Emissions Unit ID: **B001**

ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

2. Alternative U.S. EPA approved test methods may be used to demonstrate compliance with the above emissions limitations with prior approval from the Ohio EPA.

F. Miscellaneous Requirements

None

NEW SOURCE REVIEW FORM B

PTI Number: 04-01306 Facility ID: 0448011716

FACILITY NAME Diversified Wood Moulding

FACILITY DESCRIPTION 150 kW (242 bhp) diesel fueled electric generator CITY/TWP Toledo

SIC CODE 2431 SCC CODE 2-01-001-02 EMISSIONS UNIT ID B001

EMISSIONS UNIT DESCRIPTION 150 kW (242 bhp) diesel fired electric generator with timing retard and positive crankcase ventilation

DATE INSTALLED after issuance of permit

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	N/A	0.32	0.24	0.310 lb/mmBtu	2.3
PM ₁₀	Unclassified				
Sulfur Dioxide	Non Attainment	0.30	0.22	0.50	2.2
Organic Compounds	Attainment	0.36	0.27	0.60	2.6
Nitrogen Oxides	Attainment	4.5	3.4	7.5	24
Carbon Monoxide	Attainment	0.97	0.73	1.6	7.1
Lead	Attainment				
Other: Air Toxics	Unclassified				

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?AP-42, Table 3.3-1, dated 10/96 has values of CO - 0.00668 lb/bhp-hr, NOx - 0.031 lb/bhp-hr, PM - 0.0022 lb/bhp-hr (0.31 lb/mmBtu), SO₂ - 0.00205 lb/bhp-hr, VOC - 0.00247 lb/bhp-hr. Positive crankcase ventilation and NOx timing retard control is required. 20% opacity

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 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: _____