



State of Ohio Environmental Protection Agency

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

CERTIFIED MAIL

Street Address:

50 West Town Street, Suite 700

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 02-22328

Fac ID: 0238000203

DATE: 4/29/2008

Dutch Design
Ernie Hershberger
8216 State Route 241
Fredericksburg, OH 44627

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

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

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

Sincerely,

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

CC: USEPA

NEDO



Permit To Install
Terms and Conditions

Issue Date: 4/29/2008
Effective Date: 4/29/2008

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 02-22328

Application Number: 02-22328
Facility ID: 0238000203
Permit Fee: **\$0**
Name of Facility: Dutch Design
Person to Contact: Ernie Hershberger
Address: 8216 State Route 241
Fredericksburg, OH 44627

Location of proposed air contaminant source(s) [emissions unit(s)]:
8216 State Route 241
Fredericksburg, Ohio

Description of proposed emissions unit(s):
Admin mod to add NSPS requirements.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

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the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

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The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

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

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

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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 ninety (90) days after commencing operation of the emissions unit(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>
PE	4.31
OC/VOC	30.61
NOx	19.32
CO	8.37
SO2	6.76

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment - (P001) - 225 HP John Deere PowerTech 6068H diesel engine

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	0.49 lb/hr and 2.14 TPY of particulate emissions (PE)/PM less than 10 microns in diameter (PM-10). 0.69 lb/hr and 3.02 TPY of sulfur dioxide (SO ₂). Also includes B.1 below. 2.19 lbs/hr and 9.60 TPY of nitrogen dioxides (NO _x). 0.56 lb/hr and 2.47 TPY of organic compounds (OC). Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity, as a six-minute average, except during acceleration. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(a).
OAC rule 3745-17-11(B)(5)(a)	0.25 lb/mmBtu of particulate emissions. See A.2.b and A.2.c below.
OAC rule 3745-17-07(A)(1)	The opacity limitation specified in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-18-06(G)	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).

2. Additional Terms and Conditions

- 2.a In accordance with OAC rule 3745-31-05(A)(3), best available technology for

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this emissions unit includes the emissions limitations and fuel sulfur content restriction.

- 2.b** The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

B. Operational Restrictions

- 1. The permittee shall use only diesel fuel/number 2 fuel oil with a maximum sulfur content of 0.5 percent by weight for combustion in this emissions unit.

C. Monitoring and/or Recordkeeping Requirements

- 1. For each day during which the permittee burns a fuel other than diesel fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall maintain documentation of the sulfur content of all fuels received.

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 percent by weight was burned in this emissions unit. Each report shall be submitted within 30 days of the deviation.
- 2. The reports shall include what corrective action was taken and shall be sent to the Director (Ohio EPA Northeast District Office) within 30 days following the exceedance.

E. Testing Requirements

- 1. Compliance with the emission limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:

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0.49 lb/hr and 2.14 TPY of PM/PM-10.

Applicable Compliance Methods:

Compliance with the hourly emission limitation and annual limitation is based upon compliance with the emission limitation specified in OAC rule 3745-17-11(B)(5)(a).

- b. Emission Limitations:
0.69 lb/hr and 3.02 TPY of SO₂.

Emissions Unit ID: P001

Applicable Compliance Methods:

Compliance with the hourly emission limitations above shall be determined by the following equation:

$$(0.34 \text{ lb fuel/hp-hr}) (225 \text{ hp}) (S) (64 \text{ SO}_2/32 \text{ S}) (0.9 \text{ conversion})$$

where:

0.345 lb fuel/hp-hr is the manufacturer supplied fuel consumption;

225 hp is the de-rated horsepower;

S is the decimal fraction of sulfur in the fuel, (0.005)

64 is the molecular mass of sulfur dioxide;

32 is the molecular mass of sulfur; and

0.9 is 90% conversion of sulfur to sulfur dioxide.

Compliance with the annual emission limitations shall be termed by multiplying the maximum hourly emission rate determined above by the maximum hours of operation, 8760 hours/year, and dividing by 2,000 lbs/ton.

- c. Emission Limitations:
2.19 lbs/hr and 9.60 TPY of NO_x.

Applicable Compliance Methods:

Compliance with the hourly emission limitations above shall be determined by multiplying 0.00974 lb/hp-hr, emission factor for NO_x + nonmethane hydrocarbons from the California Air Resources Board exhaust certification level for engine family 5JDXL06.803, by 225 hp, the power output rating of this unit.

Compliance with the annual emission limitations shall be termed by multiplying the hourly emission rate determined above by 8760, the maximum hours of operation, and dividing by 2,000 lbs/ton.

- d. Emission Limitations:
0.56 lb/hr and 2.47 TPY of OC.

Applicable Compliance Methods:

Compliance with the hourly emission limitations above shall be determined by multiplying 0.00251 lb/hp-hr, the emission factor from AP-42, Table 3.3-1 (10/96), by 225 hp, the power output rating of this unit.

Compliance with the annual emission limitations shall be termed by multiplying the hourly emission rate determined above by 8760, the maximum hours of

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operation, and dividing by 2,000 lbs/ton.

- e. Emission Limitation:
Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity, as a six-minute average, except during acceleration.

Applicable Compliance Method:

If required, compliance with the opacity limitation shall be determined using Method 9 of 40 CFR, Part 60, Appendix A.

- f. Emission Limitation:
0.310 lb/MMBTU of particulate emissions

Applicable Compliance Method:

Compliance with the hourly emission limitations above shall be determined by the following equation:

$$(0.18 \text{ g/kW-hr}) * (\text{lb}/453.59 \text{ g}) * (0.749 \text{ kW/hp-hr}) * (\text{hp-hr}/7000 \text{ Btu}) * (10^6 \text{ Btu/MMBtu})$$

where:

0.18 g/kW-hr is the emission factor from the California Air Resources Board exhaust certification level for engine family 5JDXL06.803.

If required compliance shall be determined according to OAC rule 3745-17-03(B)(10), (Method 5, 40 CFR 60, Appendix A).

- g. Emissions Limitation:
0.25 lb PE/MMBTU of actual heat input.

Applicable Compliance Method:

If required compliance shall be determined according to OAC rule 3745-17-03(B)(10), (Method 5, 40 CFR 60, Appendix A). Note that Ohio EPA has revised the emission limitation specified in OAC rule 3745-17-11(B)(5)(b) based upon the currently applicable emission factor. The revised rule was adopted by the Director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.25 lb/MM Btu actual heat input emission limitation will no longer be applicable.

F. Miscellaneous Requirements

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Emissions Unit ID: **P001**

None

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment -(P002) - 286 HP John Deere PowerTech 6068H diesel engine

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	4.75 lbs/hr and 20.79 TPY NO _x See A.2.f below.
OAC rule 3745-17-11(B)(5)(a)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR 60, Subpart IIII.
OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
OAC rule 3745-18-06(G)	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
40 CFR 60, Subpart IIII	See A.2.a, A.2.b, A.2.c, A.2.d and A.2.e below.

2. Additional Terms and Conditions

- 2.a** Nitrogen oxide (NO_x) emissions shall not exceed 9.2 g/KW-hr.
- 2.b** Hydrocarbon (HC) emissions shall not exceed 1.3 g/KW-hr.
- 2.c** Carbon monoxide (CO) emissions shall not exceed 11.4 g/KW-hr.
- 2.d** Particulate (PM) emissions shall not exceed 0.54 g/KW-hr.
- 2.e** Diesel fuel must meet the following nonroad, locomotive and marine fuel quality requirements:

Beginning October 1, 2007

-500 ppm maximum sulfur content

Emissions Unit ID: **P002**

-either minimum cetane index of 40 or
maximum aromatic content of 35 volume
percent

Beginning October 1, 2010

-15 ppm maximum sulfur content
-either minimum cetane index of 40 or
maximum aromatic content of 35 volume
percent

- 2.f** The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the uncontrolled OC (as HC), CO, PM and SO₂ emissions from this air contaminant source since the potential to emit for OC, CO, PM and SO₂ is less than ten tons per year.

B. Operational Restrictions

1. The emissions unit must be operated and maintained according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. The permittee may only change those settings that are permitted by the manufacturer.

C. Monitoring and/or Recordkeeping Requirements

1. For each shipment of diesel fuel received for burning in this emissions unit, the permittee shall retain documentation that the fuel meets the requirements for non-road, locomotive and marine fuel in 40 CFR 80.510. and section A.2.e above.
2. The permittee shall maintain an operations log that documents all maintenance conducted on the engine.
3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and

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- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the weekly check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- 4. The permittee shall retain a copy of the initial notification required in section D.1 on site and be made available to the director or a representative upon request.
- 5. The permittee shall retain documentation that the engine meets the short term emissions standards on site and made available to the director or a representative upon request. This documentation includes the CARB certification for the 2005 model year for this same engine family.

D. Reporting Requirements

- 1. The permittee shall furnish to US EPA, Region V and the Ohio EPA, Northeast District Office a written initial notification that contains:
 - a. the name and address of the owner or operator;
 - b. the address of the emissions unit;
 - c. the engine information including make, model, engine family, serial number, model year, maximum engine power and engine displacement;
 - d. the date construction of the emissions unit commenced;
 - e. emissions control equipment; and
 - f. fuel used.

The notification shall be postmarked no later than 30 days after such date and sent to

Mr. George Czerniak, Chief
Air Enforcement & Compliance Assurance Branch
U.S. EPA Region V

Emissions Unit ID: P002

77 West Jackson Boulevard
Chicago, IL 60604-3507

Dennis Bush
Division of Air Pollution Control
Ohio EPA - Northeast District Office
2110 E. Aurora Rd.
Twinsburg, OH 44087

2. The permittee shall submit annual written reports that:
 - a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - b. describe the cause of the emissions and any corrective actions taken to minimize or eliminate the visible particulate emissions;
 - c. identify any record which shows the fuel did not meet the requirements for non-road, locomotive and marine fuel; and
 - d. states that the engine was operated and maintained according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer.

These reports shall be submitted to the Director (Ohio EPA Northeast District Office) by January 31 of each year and shall cover the previous calendar year.

3. The permittee shall notify the director (Ohio EPA, Northeast District Office) in writing of any record which shows the fuel did not meet the requirements for non-road, locomotive and marine fuel. The notification shall include a copy of such record and shall be sent to the director (the Ohio EPA, Northeast District Office) within 45 days after the deviation occurs.
4. The reports contained in this permit shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.

E. Testing Requirements

1. Compliance with the emission limitations specified in section A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:

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- a. Emission Limitation:
Nitrogen oxide (NOx) emissions shall not exceed 9.2 g/KW-hr and 4.75 pounds per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by the US EPA JDJX-NR5-05-18 certificate for engine family 5JDJXL06.8049 model year 2005 which certifies the emissions of nitrogen oxide and non-methane hydrocarbon at 5.7 g/KW-hr.

Compliance with the hourly emission limitation above shall be determined by multiplying 5.7 g/KW-hr times 234 KW, the standby power output rating of this unit and dividing by 453.59 grams per pound.

- b. Emission Limitation:
Nitrogen oxide (NOx) emissions shall not exceed 20.79 tons per year.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by multiplying 5.7 g/KW-hr by 234 KW, the standby power output rating of this unit, and by the maximum hours of operation per year (8760) and dividing by 453.59 grams per pound and 2000 pounds per ton.

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- c. Emission Limitation:
Hydrocarbon (HC) emissions shall not exceed 1.3 g/KW-hr.

Applicable Compliance Method:
Compliance shall be demonstrated by John Deere emissions test results which certifies the emissions of non-methane hydrocarbon at 0.17 g/KW-hr.

- d. Emission Limitation:
Carbon monoxide (CO) emissions shall not exceed 11.4 g/KW-hr.

Applicable Compliance Method:
Compliance shall be demonstrated by the US EPA JDX-NR5-05-18 certificate for engine family 5JDXL06.8049 model year 2005 which certifies the emissions of carbon monoxide and non-methane hydrocarbon at 0.9 g/KW-hr.

- e. Emission Limitation:
Particulate emissions (PE) shall not exceed 0.54 g/KW-hr.

Applicable Compliance Method:
Compliance shall be demonstrated by the US EPA JDX-NR5-05-18 certificate for engine family 5JDXL06.8049 model year 2005 which certifies the emissions of particulate emissions at 0.12 g/KW-hr.

- f. Emission Limitation:
Visible particulate emissions from the stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible particulate emission limitation shall be demonstrated based upon the visible emission observations performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment -(R001) - wood furniture stain coating operation in a booth with overspray filters and one HVLP spray gun/pump

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	See A.2.b , A.2.c, and B.1 below. The requirements of this rule also include compliance with requirements of OAC rule 3745-21-07(G)(2).
OAC rule 3745-21-07(G)(2)	See A.2.a below.
OAC rule 3745-31-05(C)	See A.2.d, and B.2 below.

2. Additional Terms and Conditions

- 2.a Each day that a photochemically reactive material [as defined in OAC 3745-21-01(C)(5)] is employed, the organic compound (OC) emissions from all coatings and photochemically reactive cleanup material and from photochemically reactive materials shall not exceed 8 pounds per hour and 40 pound per day. OC emissions from cleanup material that is not a photochemically reactive material shall not be included in showing compliance with this limit.
- 2.b Each day that photochemically reactive materials [as defined in OAC 3745-21-01(C)(5)]are not employed, the volatile organic compound (VOC) emissions from coatings shall not exceed 12.0 pounds per hour. This limit is based upon the maximum application rate of 2.0 gallons per hour.
- 2.c The VOC content of coatings shall not exceed 6.0 pounds per gallon, as applied.
- 2.d The VOC emissions from all coatings and cleanup materials from this emissions unit, and R001, R002 and R003 combined, shall not exceed 25.0 tons per year, as a rolling, 12-month summation.

B. Operational Restrictions

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1. All exhaust from the spray booth shall pass through the dry filters whenever this emissions unit is in operation.
2. The maximum emissions from coating and clean up material usage for this emissions unit and for and R001, R002, and R003, combined, shall not exceed 25.0 tons of VOC per rolling, 12-months.
3. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the emission levels specified in the following table:

Month	Maximum Allowable VOC (tons)
1	6.25
2	6.25
3	6.25
4	8.33
5	10.41
6	12.49
7	14.57
8	16.65
9	18.73
10	20.81
11	22.89
12	25.0

After the first 12 calendar months of operation following the issuance of this permit, compliance with the rolling 12-month limitations of VOC shall be based upon the rolling 12-month summations of the emissions of VOC.

Tons VOC emissions current month	+	Previous 11 months tons of VOC	Total 12-month < or = 25.0 tons VOC
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C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain daily records that document all time periods when the dry filters were not in service when the emissions unit was in operation.
2. The permittee shall collect and record the following information for each day that

Emissions Unit ID: **R001**

photochemically reactive coatings or cleanup material are employed in this emissions unit:

- a. the company identification for each coating and photochemically reactive cleanup material employed;
- b. the number of gallons of each coating and photochemically reactive cleanup material employed minus the number of gallons of coating and/or cleanup material recovered for disposal;
- c. the OC content of each coating and photochemically reactive cleanup material, in pounds OC per gallon;
- d. the total emissions rate for all coatings and photochemically reactive cleanup materials, in pounds OC per day;
- e. the total number of hours the emissions unit was in operation; and
- f. the average hourly OC emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in pounds per hour (average);
- g. the VOC content of each coating and photochemically reactive cleanup material, in pounds VOC per gallon; and
- h. the total emissions rate for all coatings and photochemically reactive cleanup materials, in pounds VOC per day.

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

3. The permittee shall collect and record the following information for each day that photochemically reactive coatings or cleanup materials are not employed in this emissions unit:
 - a. the company identification for each coating or cleanup material employed;
 - b. documentation that photochemically reactive material as defined in OAC rule 3745-21-01(C)(5) was not used;
 - c. the volatile organic compound (VOC) content of each coating, in lbs/gallon as

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- applied;
 - d. the number of gallons of each coating employed minus the number of gallons of coating recovered for disposal;
 - e. the total VOC emissions from all coatings employed, in lbs/day, i.e., sum of (c) times (d);
 - f. the total number of hours the emissions unit was in operation; and
 - g. the average hourly VOC emission rate for all coatings, i.e., (e)/(f), in lbs/hr.
4. The permittee shall collect and record the following information for each month for the emissions unit:
- a. the number of gallons of each non-photochemically reactive cleanup material employed minus the number of gallons of cleanup material recovered for disposal;
 - b. the volatile organic compound (VOC) content of each non-photochemically cleanup material, in lbs/gallon;
 - c. the total VOC emissions from all non-photochemically reactive cleanup materials employed, in lbs/month, i.e., sum of (b) times (a); and
 - d. the actual VOC emissions from all coatings and cleanup materials for the previous, 12-month period [i.e., sum of the daily VOC emissions (terms C.2.h + C.3.e) and the monthly non-photochemically reactive cleanup material VOC emission (term C.4.c) for the previous, 12-month period];
 - e. the actual VOC emissions from R001, R002 and R003, combined for the previous, 12-month period.
5. The permit to install for this emissions unit and emissions units R001, R002 and R003, combined were evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The

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predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC) adjusted to reflect the operation hour limitation in this permit. The following summarizes the results of the modeling for the "worst case" pollutant(s) for emissions units R001, R002 and R003, combined:

Compound: toluene

TLV (mg/m³): 712.6

Maximum Hourly Emission Rate (lbs/hr): 5.7 lbs/hr

Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m³): 4,454

Adjusted MAGLC (ug/m³): 4,476

6. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

7. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy":
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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D. Reporting Requirements

1. The permittee shall notify the Director in writing of any daily record showing that the dry filters were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (Ohio EPA, Northeast District Office) within 30 days after the event occurs.

2. The permittee submit quarterly deviation (excursion) reports that identify:
 - a. for the days during which a photochemically reactive material was employed, each day during which the OC emissions from the coatings and photochemically reactive cleanup materials exceeded 8 pounds per hour and/or 40 pounds per day, and the actual OC emissions for each such incidence;
 - b. for the days during which a photochemically reactive material was not employed, each day during which the average VOC emissions from the coatings exceeded the pounds per hour limitation specified above, and the actual average VOC emissions for each such day;
 - c. each day during which the VOC content of any coating exceeded the pounds per gallon limitation specified above and the actual VOC content of each such coatings employed;
 - d. any exceedence of the annual VOC* emission limitation, as a rolling, 12-month summation, and the actual VOC emissions during such period; and

*based upon the premise that 100% of the solvent in the coating and clean up material employed is emitted.

The reports contained in this permit shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.

3. The permittee shall also submit annual reports that summarize the emissions of VOC from this emissions unit and from R001, R002 and R003 combined.

The reports shall include the emissions calculations, shall be submitted by January 31 of each year, and shall cover the previous calendar year.

E. Testing Requirements

Emissions Unit ID: **R001**

1. Compliance with the allowable emission limitations in Section A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emissions Limitation:
8 pounds per hour of OC emissions for each day that photochemically reactive materials are employed.

Applicable Compliance Method:
Compliance shall be determined by the daily values calculated in C.2.f based upon the record keeping specified in Section C.2.
 - b. Emissions Limitation:
40 pounds per day of OC emissions for each day that photochemically reactive materials are employed.

Applicable Compliance Method:
Compliance shall be determined by the daily values calculated in C.2.d based upon the record keeping specified in Section C.2.
 - c. Emissions Limitation:
12.0 pounds VOC emissions per hour for each day that photochemically reactive materials are not employed.

Applicable Compliance Method:
Compliance shall be determined by the daily values calculated in C.3.g. based upon the record keeping specified in Section C.3.
 - d. Emissions Limitation:
25.0 tons of VOC emissions per rolling, 12-month period from all coatings and cleanup material from this emissions unit and from R001, R002, and R003, combined.

Applicable Compliance Method:
Compliance shall be determined by the value recorded in C.4.d and C.4.e based upon the record keeping as specified in Section C.2, C.3 and C.4.
 - e. Emissions Limitation:
6.0 pounds of VOC per gallon coating, as applied.

Applicable Compliance Method:

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Any determination of VOC content, solids contents, or density of coating material or cleanup material shall be based on the coating materials as employed (as applied), including the addition of any thinner or viscosity reducer to the coatings. In accordance with OAC rule 3745-21-04(B)(5), the permittee shall determine the composition of the coatings or cleanup material by formulation data supplied by the manufacturer of the coating materials, or from data determined by an analysis of each coating, as applied, by Reference Method 24 or Method 24A. If, pursuant to section 11.4 of Method 24, 40 CFR Part 60, Appendix A (revised as of July 1, 2001), an owner or operator determines that Method 24 or Method 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 and/or Method 24A.

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-31-05(D), the following terms and conditions of this permit to install are federally enforceable: A-F, except C.5, C.6, and C.7.

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PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment - (R002) - wood furniture seal coating operation in a booth with overspray filters and one HVLP spray gun/pump

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	See A.2.b , A.2.c, and B.1 below. The requirements of this rule also include compliance with requirements of OAC rule 3745-21-07(G)(2).
OAC rule 3745-21-07(G)(2)	See A.2.a below.
OAC rule 3745-31-05(C)	See A.2.d, and B.2 below.

2. Additional Terms and Conditions

- 2.a Each day that a photochemically reactive material [as defined in OAC 3745-21-01(C)(5)] is employed, the organic compound (OC) emissions from all coatings and photochemically reactive cleanup material and from photochemically reactive materials shall not exceed 8 pounds per hour and 40 pound per day. OC emissions from cleanup material that is not a photochemically reactive material shall not be included in showing compliance with this limit.
- 2.b Each day that photochemically reactive materials [as defined in OAC 3745-21-01(C)(5)]are not employed, the volatile organic compound (VOC) emissions from coatings shall not exceed 10.68 pounds per hour. This limit is based upon the maximum application rate of 2.125gallons per hour.
- 2.c The VOC content of coatings shall not exceed 5.34 pounds per gallon, as applied.
- 2.d The VOC emissions from all coatings and cleanup materials from this emissions unit, and R001, R002 and R003 combined, shall not exceed 25.0 tons per year,

as a rolling, 12-month summation.

B. Operational Restrictions

1. All exhaust from the spray booth shall pass through the dry filters whenever this emissions unit is in operation.
2. The maximum emissions from coating and clean up material usage for this emissions unit and for R001, R002, and R003, combined, shall not exceed 25.0 tons of VOC per rolling, 12-months.
3. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the emission levels specified in the following table:

Month	Maximum Allowable VOC (tons)
1	6.25
2	6.25
3	6.25
4	8.33
5	10.41
6	12.49
7	14.57
8	16.65
9	18.73
10	20.81
11	22.89
12	25.0

After the first 12 calendar months of operation following the issuance of this permit, compliance with the rolling 12-month limitations of VOC shall be based upon the rolling 12-month summations of the emissions of VOC.

Tons VOC emissions current month	+	Previous 11 months tons of VOC	Total 12-month < or = 25.0 tons VOC
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C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain daily records that document all time periods when the dry filters were not in service when the emissions unit was in operation.

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2. The permittee shall collect and record the following information for each day that photochemically reactive coatings or cleanup material are employed in this emissions unit:
 - a. the company identification for each coating and photochemically reactive cleanup material employed;
 - b. the number of gallons of each coating and photochemically reactive cleanup material employed minus the number of gallons of coating and/or cleanup material recovered for disposal;
 - c. the OC content of each coating and photochemically reactive cleanup material, in pounds OC per gallon;
 - d. the total emissions rate for all coatings and photochemically reactive cleanup materials, in pounds OC per day;
 - e. the total number of hours the emissions unit was in operation; and
 - f. the average hourly OC emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in pounds per hour (average);
 - g. the VOC content of each coating and photochemically reactive cleanup material, in pounds VOC per gallon; and
 - h. the total emissions rate for all coatings and photochemically reactive cleanup materials, in pounds VOC per day.

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

3. The permittee shall collect and record the following information for each day that photochemically reactive coatings or cleanup materials are not employed in this emissions unit:
 - a. the company identification for each coating or cleanup material employed;
 - b. documentation that photochemically reactive material as defined in OAC rule 3745-21-01(C)(5) was not used;

- c. the volatile organic compound (VOC) content of each coating, in lbs/gallon as applied;
 - d. the number of gallons of each coating employed minus the number of gallons of coating recovered for disposal;
 - e. the total VOC emissions from all coatings employed, in lbs/day, i.e., sum of (c) times (d);
 - f. the total number of hours the emissions unit was in operation; and
 - g. the average hourly VOC emission rate for all coatings, i.e., (e)/(f), in lbs/hr.
4. The permittee shall collect and record the following information for each month for the emissions unit:
 - a. the number of gallons of each non-photochemically reactive cleanup material employed minus the number of gallons of cleanup material recovered for disposal;
 - b. the volatile organic compound (VOC) content of each non-photochemically reactive cleanup material, in lbs/gallon;
 - c. the total VOC emissions from all non-photochemically reactive cleanup materials employed, in lbs/month, i.e., sum of (b) times (a); and
 - d. the actual VOC emissions from all coatings and cleanup materials for the previous, 12-month period [i.e., sum of the daily VOC emissions (terms C.2.h + C.3.e) and the monthly non-photochemically reactive cleanup material VOC emission (term C.4.c) for the previous, 12-month period];
 - e. the actual VOC emissions from R001, R002 and R003, combined for the previous, 12-month period.
5. The permit to install for this emissions unit and emissions units R001, R002 and R003, combined were evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install

Emissions Unit ID: **R002**

application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC) adjusted to reflect the operation hour limitation in this permit. The following summarizes the results of the modeling for the "worst case" pollutant(s) for emissions units R001, R002 and R003, combined:

Compound: toluene

TLV (mg/m³): 712.6

Maximum Hourly Emission Rate (lbs/hr): 5.7 lbs/hr

Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m³): 4,454Adjusted MAGLC (ug/m³): 4,476

6. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

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If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

7. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall notify the Director in writing of any daily record showing that the dry filters were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (Ohio EPA, Northeast District Office) within 30 days after the event occurs.
2. The permittee submit quarterly deviation (excursion) reports that identify:
 - a. for the days during which a photochemically reactive material was employed, each day during which the OC emissions from the coatings and photochemically reactive cleanup materials exceeded 8 pounds per hour and/or 40 pounds per day, and the actual OC emissions for each such incidence;
 - b. for the days during which a photochemically reactive material was not employed, each day during which the average VOC emissions from the coatings exceeded the pounds per hour limitation specified above, and the actual average VOC emissions for each such day;
 - c. each day during which the VOC content of any coating exceeded the pounds per gallon limitation specified above and the actual VOC content of each such coatings employed;
 - d. any exceedence of the annual VOC* emission limitation, as a rolling, 12-month summation, and the actual VOC emissions during such period; and

*based upon the premise that 100% of the solvent in the coating and clean up material employed is emitted.

The reports contained in this permit shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.

3. The permittee shall also submit annual reports that summarize the emissions of VOC from this emissions unit and from R001, R002 and R003 combined.

The reports shall include the emissions calculations, shall be submitted by January 31 of each year, and shall cover the previous calendar year.

E. Testing Requirements

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1. Compliance with the allowable emission limitations in Section A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitation:
8 pounds per hour of OC emissions for each day that photochemically reactive materials are employed.

Applicable Compliance Method:
Compliance shall be determined by the daily values calculated in C.2.f based upon the record keeping specified in Section C.2.

- b. Emissions Limitation:
40 pounds per day of OC emissions for each day that photochemically reactive materials are employed.

Applicable Compliance Method:
Compliance shall be determined by the daily values calculated in C.2.d based upon the record keeping specified in Section C.2.

- c. Emissions Limitation:
10.68 pounds VOC emissions per hour for each day that photochemically reactive materials are not employed.

Applicable Compliance Method:
Compliance shall be determined by the daily values calculated in C.3.g. based on the record keeping specified in Section C.3.

- d. Emissions Limitation:
25.0 tons of VOC emissions per rolling, 12-month period from all coatings and cleanup material from this emissions unit and from R001, R002, and R003, combined.

Applicable Compliance Method:
Compliance shall be determined by the value recorded in C.4.d and C.4.e based on the record keeping as specified in Section C.2, C.3 and C.4.

- e. Emissions Limitation:
5.34 pounds of VOC per gallon coating, as applied.

Applicable Compliance Method:

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Any determination of VOC content, solids contents, or density of coating material or cleanup material shall be based on the coating materials as employed (as applied), including the addition of any thinner or viscosity reducer to the coatings. In accordance with OAC rule 3745-21-04(B)(5), the permittee shall determine the composition of the coatings or cleanup material by formulation data supplied by the manufacturer of the coating materials, or from data determined by an analysis of each coating, as applied, by Reference Method 24 or Method 24A. If, pursuant to section 11.4 of Method 24, 40 CFR Part 60, Appendix A (revised as of July 1, 2001), an owner or operator determines that Method 24 or Method 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 and/or Method 24A.

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-31-05(D), the following terms and conditions of this permit to install are federally enforceable: A-F, except C.5, C.6, and C.7.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

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

Operations, Property, and/or Equipment -(R003) - wood furniture topcoating operation in a booth with overspray filters and one HVLP spray gun/pump

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	See A.2.b , A.2.c, and B.1 below. The requirements of this rule also include compliance with requirements of OAC rule 3745-21-07(G)(2).
OAC rule 3745-21-07(G)(2)	See A.2.a below.
OAC rule 3745-31-05(C)	See A.2.d, and B.2 below.

2. Additional Terms and Conditions

- 2.a Each day that a photochemically reactive material [as defined in OAC 3745-21-01(C)(5)] is employed, the organic compound (OC) emissions from all coatings and photochemically reactive cleanup material and from photochemically reactive materials shall not exceed 8 pounds per hour and 40 pound per day. OC emissions from cleanup material that is not a photochemically reactive material shall not be included in showing compliance with this limit.
- 2.b Each day that photochemically reactive materials [as defined in OAC 3745-21-01(C)(5)] are not employed, the volatile organic compound (VOC) emissions from coatings shall not exceed 10.20 pounds per hour. This limit is based upon the maximum application rate of 2.125 gallons per hour.
- 2.c The VOC content of coatings shall not exceed 4.80 pounds per gallon, as applied.
- 2.d The VOC emissions from all coatings and cleanup materials from this emissions unit, and R001, R002 and R003 combined, shall not exceed 25.0 tons per year, as a rolling, 12-month summation.

Modification Issued: 4/29/2008**B. Operational Restrictions**

1. All exhaust from the spray booth shall pass through the dry filters whenever this emissions unit is in operation.
2. The maximum emissions from coating and clean up material usage for this emissions unit and for and R001, R002, and R003, combined, shall not exceed 25.0 tons of VOC per rolling, 12-months.
3. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the emission levels specified in the following table:

Month	Maximum Allowable VOC (tons)
1	6.25
2	6.25
3	6.25
4	8.33
5	10.41
6	12.49
7	14.57
8	16.65
9	18.73
10	20.81
11	22.89
12	25.0

After the first 12 calendar months of operation following the issuance of this permit, compliance with the rolling 12-month limitations of VOC shall be based upon the rolling 12-month summations of the emissions of VOC.

Tons VOC emissions current month	+	Previous 11 months tons of VOC	Total 12-month < or = 25.0 tons VOC
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C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain daily records that document all time periods when the dry filters were not in service when the emissions unit was in operation.

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2. The permittee shall collect and record the following information for each day that photochemically reactive coatings or cleanup material are employed in this emissions unit:
 - a. the company identification for each coating and photochemically reactive cleanup material employed;
 - b. the number of gallons of each coating and photochemically reactive cleanup material employed minus the number of gallons of coating and/or cleanup material recovered for disposal;
 - c. the OC content of each coating and photochemically reactive cleanup material, in pounds OC per gallon;
 - d. the total emissions rate for all coatings and photochemically reactive cleanup materials, in pounds OC per day;
 - e. the total number of hours the emissions unit was in operation; and
 - f. the average hourly OC emission rate for all coatings and photochemically reactive cleanup materials, i.e., (d)/(e), in pounds per hour (average);
 - g. the VOC content of each coating and photochemically reactive cleanup material, in pounds VOC per gallon; and
 - h. the total emissions rate for all coatings and photochemically reactive cleanup materials, in pounds VOC per day.

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).]

3. The permittee shall collect and record the following information for each day that photochemically reactive coatings or cleanup materials are not employed in this emissions unit:
 - a. the company identification for each coating or cleanup material employed;
 - b. documentation that photochemically reactive material as defined in OAC rule 3745-21-01(C)(5) was not used;

- c. the volatile organic compound (VOC) content of each coating, in lbs/gallon as applied;
 - d. the number of gallons of each coating employed minus the number of gallons of coating recovered for disposal;
 - e. the total VOC emissions from all coatings employed, in lbs/day, i.e., sum of (c) times (d);
 - f. the total number of hours the emissions unit was in operation; and
 - g. the average hourly VOC emission rate for all coatings, i.e., (e)/(f), in lbs/hr.
4. The permittee shall collect and record the following information for each month for the emissions unit:
 - a. the number of gallons of each non-photochemically reactive cleanup material employed minus the number of gallons of cleanup material recovered for disposal;
 - b. the volatile organic compound (VOC) content of each non-photochemically reactive cleanup material, in lbs/gallon;
 - c. the total VOC emissions from all non-photochemically reactive cleanup materials employed, in lbs/month, i.e., sum of (b) times (a); and
 - d. the actual VOC emissions from all coatings and cleanup materials for the previous, 12-month period [i.e., sum of the daily VOC emissions (terms C.2.h + C.3.e) and the monthly non-photochemically reactive cleanup material VOC emission (term C.4.c) for the previous, 12-month period];
 - e. the actual VOC emissions from R001, R002 and R003, combined for the previous, 12-month period.
5. The permit to install for this emissions unit and emissions units R001, R002 and R003, combined were evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install

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application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC) adjusted to reflect the operation hour limitation in this permit. The following summarizes the results of the modeling for the "worst case" pollutant(s) for emissions units R001, R002 and R003, combined:

Compound: toluene

TLV (mg/m³): 712.6

Maximum Hourly Emission Rate (lbs/hr): 5.7 lbs/hr

Predicted 1-Hour Maximum Ground-Level
Concentration (ug/m³): 4,454

Adjusted MAGLC (ug/m³): 4,476

6. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack

diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

7. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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D. Reporting Requirements

1. The permittee shall notify the Director in writing of any daily record showing that the dry filters were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (Ohio EPA, Northeast District Office) within 30 days after the event occurs.

2. The permittee submit quarterly deviation (excursion) reports that identify:
 - a. for the days during which a photochemically reactive material was employed, each day during which the OC emissions from the coatings and photochemically reactive cleanup materials exceeded 8 pounds per hour and/or 40 pounds per day, and the actual OC emissions for each such incidence;
 - b. for the days during which a photochemically reactive material was not employed, each day during which the average VOC emissions from the coatings exceeded the pounds per hour limitation specified above, and the actual average VOC emissions for each such day;
 - c. each day during which the VOC content of any coating exceeded the pounds per gallon limitation specified above and the actual VOC content of each such coatings employed;
 - d. any exceedence of the annual VOC* emission limitation, as a rolling, 12-month summation, and the actual VOC emissions during such period; and

*based upon the premise that 100% of the solvent in the coating and clean up material employed is emitted.

The reports contained in this permit shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.

3. The permittee shall also submit annual reports that summarize the emissions of VOC from this emissions unit and from R001, R002 and R003 combined.

The reports shall include the emissions calculations, shall be submitted by January 31 of each year, and shall cover the previous calendar year.

E. Testing Requirements

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1. Compliance with the allowable emission limitations in Section A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emissions Limitation:
8 pounds per hour of OC emissions for each day that photochemically reactive materials are employed.

Applicable Compliance Method:
Compliance shall be determined by the daily values calculated in C.2.f based upon the record keeping specified in Section C.2.
 - b. Emissions Limitation:
40 pounds per day of OC emissions for each day that photochemically reactive materials are employed.

Applicable Compliance Method:
Compliance shall be determined by the daily values calculated in C.2.d based upon the record keeping specified in Section C.2.
 - c. Emissions Limitation:
10.20 pounds VOC emissions per hour for each day that photochemically reactive materials are not employed.

Applicable Compliance Method:
Compliance shall be determined by the daily values calculated in C.3.g. based on the record keeping specified in Section C.3.
 - d. Emissions Limitation:
25.0 tons of VOC emissions per rolling, 12-month period from all coatings and cleanup material from this emissions unit and from R001, R002, and R003, combined.

Applicable Compliance Method:
Compliance shall be determined by the value recorded in C.4.d and C.4.e based on the record keeping as specified in Section C.2, C.3 and C.4.
 - e. Emissions Limitation:
4.80 pounds of VOC per gallon coating, as applied.

Emissions Unit ID: **R003****Applicable Compliance Method:**

Any determination of VOC content, solids contents, or density of coating material or cleanup material shall be based on the coating materials as employed (as applied), including the addition of any thinner or viscosity reducer to the coatings. In accordance with OAC rule 3745-21-04(B)(5), the permittee shall determine the composition of the coatings or cleanup material by formulation data supplied by the manufacturer of the coating materials, or from data determined by an analysis of each coating, as applied, by Reference Method 24 or Method 24A. If, pursuant to section 11.4 of Method 24, 40 CFR Part 60, Appendix A (revised as of July 1, 2001), an owner or operator determines that Method 24 or Method 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 and/or Method 24A.

F. Miscellaneous Requirements

1. In accordance with the provisions of OAC rule 3745-31-05(D), the following terms and conditions of this permit to install are federally enforceable: A-F, except C.5, C.6, and C.7.