



State of Ohio Environmental Protection Agency

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

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

**Application No: 02-20672
Fac ID: 0285000422**

DATE: 4/28/2005

Weaver Woodcraft
David Weaver
9652 Harrison Rd.
Apple Creek, OH 44606

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
309 South Fourth Street, Room 222
Columbus, Ohio 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: 4/28/2005
Effective Date: 4/28/2005**

FINAL PERMIT TO INSTALL 02-20672

Application Number: 02-20672
Facility ID: 0285000422
Permit Fee: **\$1600**
Name of Facility: Weaver Woodcraft
Person to Contact: David Weaver
Address: 9652 Harrison Rd.
Apple Creek, OH 44606

Location of proposed air contaminant source(s) [emissions unit(s)]:

**9652 Harrison Rd.
Apple Creek, Ohio**

Description of proposed emissions unit(s):

Wood furniture coating booth, 2 diesel engines, woodworking equipment.

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

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

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.

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.

Weaver Woodcraft
PTI Application: 02-20672
Issued: 4/28/2005

Facility ID: 0285000422

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>
PM/PM ₁₀	4.95
SO ₂	2.01
NO _x	30.26
CO	6.53
VOC	77.49

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>	
P001 - 142 Hp Deutz diesel-fired reciprocating engine	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-07(A)(1)
		OAC rule 3745-18-06(G)
		OAC rule 3745-21-07(B)

OAC rule 3745-17-11(B)(5)(a)

See section A.2.d.

Applicable Emissions
Limitations/Control Measures

0.31 lb/hr and 1.36 TPY of particulate matter (PM)/PM less than 10 microns in diameter (PM₁₀)

0.29 lb/hr and 1.27 TPY of sulfur dioxide (SO₂)

4.40 lbs/hr and 19.27 TPY of nitrogen dioxides (NO_x)

0.95 lb/hr and 4.16 TPY of carbon monoxide (CO)

0.36 lb/hr and 1.58 TPY of volatile organic compounds (VOC)

Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity, as a six-minute average.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)5(a).

0.310 lb/mmBtu of particulate emissions

The opacity limitation specified in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

See section A.2.c.

2. Additional Terms and Conditions

- 2.a** In accordance with OAC rule 3745-31-05(A)(3), best available technology for this emissions unit includes the emissions limitations and fuel sulfur content restriction.
- 2.b** The hourly and annual emission limitations outlined above are based upon the emissions unit's potential to emit. Therefore, no records are required to be maintained to demonstrate compliance with these limitations.
- 2.c** This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
- 2.d** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

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 Record keeping 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. The permittee shall also 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.

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:
0.31 lb/hr and 1.36 TPY of PM/PM₁₀

0.29 lb/hr and 1.27 TPY of SO₂

4.40 lbs/hr and 19.27 TPY of NO_x

0.95 lb/hr and 4.16 TPY of CO

0.36 lb/hr and 1.58 TPY of VOC

Applicable Compliance Methods:

Compliance with the hourly emission limitations above shall be determined using the emission factors specified in AP-42 "Compilation of Air Pollutant Emission Factors," Table 3.3-1 (10/96) and the power output rating of this unit (142 Hp).

The annual emission limitations specified above were created by multiplying the hourly emission limitations by 8,760 hours/year and dividing by 2,000 lbs/ton; therefore, as long as compliance with the hourly emission limitations is maintained, compliance with the annual emission limitations will be assumed.

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

Applicable Compliance Method:

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

- c. Emission Limitation:
0.310 lb/mmBtu of particulate emissions

Applicable Compliance Method:

Compliance with the emission limitation above shall be determined using the appropriate emission factor specified in AP-42 "Compilation of Air Pollutant Emission Factors," Table 3.3-1 (10/96).

11

Weaver Woodcraft
PTI Application: 02 20672
Issued

Facility ID: 0285000422

Emissions Unit ID: P001

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P002 - 81 Hp Deutz diesel-fired reciprocating engine	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)(5)(a) OAC rule 3745-17-07(A)(1) OAC rule 3745-18-06(G) OAC rule 3745-21-07(B)

See section A.2.d.

Applicable Emissions
Limitations/Control Measures

0.18 lb/hr and 0.79 TPY of particulate matter (PM)/PM less than 10 microns in diameter (PM₁₀)

0.17 lb/hr and 0.74 TPY of sulfur dioxide (SO₂)

2.51 lbs/hr and 10.99 TPY of nitrogen dioxides (NO_x)

0.54 lb/hr and 2.37 TPY of carbon monoxide (CO)

0.20 lb/hr and 0.88 TPY of volatile organic compounds (VOC)

Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity, as a six-minute average.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)5(a).

0.310 lb/mmBtu of particulate emissions

The opacity limitation specified in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

See section A.2.c.

2. Additional Terms and Conditions

- 2.a** In accordance with OAC rule 3745-31-05(A)(3), best available technology for this emissions unit includes the emissions limitations and fuel sulfur content restriction.
- 2.b** The hourly and annual emission limitations outlined above are based upon the emissions unit's potential to emit. Therefore, no records are required to be maintained to demonstrate compliance with these limitations.
- 2.c** This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
- 2.d** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

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 Record keeping 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. The permittee shall also 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.

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:
0.18 lb/hr and 0.79 TPY of PM/PM₁₀

0.17 lb/hr and 0.74 TPY of SO₂

2.51 lbs/hr and 10.99 TPY of NO_x

0.54 lb/hr and 2.37 TPY of CO

0.20 lb/hr and 0.88 TPY of VOC

Applicable Compliance Methods:

Compliance with the hourly emission limitations above shall be determined using the emission factors specified in AP-42 "Compilation of Air Pollutant Emission Factors," Table 3.3-1 (10/96) and the power output rating of this unit (81 Hp).

The annual emission limitations specified above were created by multiplying the hourly emission limitations by 8,760 hours/year and dividing by 2,000 lbs/ton; therefore, as long as compliance with the hourly emission limitations is maintained, compliance with the annual emission limitations will be assumed.

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

Applicable Compliance Method:

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

- c. Emission Limitation:
0.310 lb/mmBtu of particulate emissions

Applicable Compliance Method:

Compliance with the emission limitation above shall be determined using the appropriate emission factor specified in AP-42 "Compilation of Air Pollutant Emission Factors," Table 3.3-1 (10/96).

16

Weaver

PTI A

Issued: 4/28/2005

Emissions Unit ID: **P002**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P003 - Woodworking shop, controlled by a 7,500 cfm cyclone and return-air baghouse system, and associated loadout.	OAC rule 3745-31-05(A)(3)	See A.2.a, A.2.b, A.2.c, B.2 and B.3 below.
	OAC rule 3745-17-07(B)	In accordance with paragraph (B)(11)(e) of OAC rule 3745-17-07, the requirements of OAC rule 3745-17-07(B) shall not apply to this emissions unit.
	OAC rule 3745-17-08(B)	In accordance with paragraph (A)(1) of OAC rule 3745-17-08, the requirements of OAC rule 3745-17-08(B) shall not apply to this emissions unit.
	OAC rule 3745-17-11	The emission limitation established in this rule is less stringent than the one established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	The emission limitation specified in this rule is less stringent than the one established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a Particulate emissions shall not exceed 0.01 grain per dscf of exhaust gas, 0.64 pound per hour and 2.80 tons per year from the dust collector exhaust.
- 2.b There shall be no visible emissions from the dust collector exhaust.
- 2.c Visible emissions shall not exceed 20% opacity, as a 3-minute average from fugitive particulate emissions during loadout.

B. Operational Restrictions

- 1. The pressure drop across the dust collector shall be maintained within the manufacturer's recommended range while the emissions unit is in operation, or within the pressure drop range established during the most recent compliance inspection or stack test that determined the emissions unit was in compliance.
- 2. The dust collector shall be operated with a sufficient volumetric flow rate to eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.
- 3. During any unloading of sawdust into trucks from the cyclone dust collector hopper, every attempt shall be made to reduce or control fugitive dust emissions by minimizing the drop height to the truck, utilizing a truck with high side boards, or placing a covering over the discharge chute during the unloading process. The collection efficiency shall be considered adequate if there are no visible particulate emissions of fugitive dust from the fabric tube during wood waste load-out in excess of 20% opacity, as a 3-minute average.

C. Monitoring and/or Record keeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the dust collector while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the dust collector on a weekly basis.
- 2. The permittee shall perform weekly checks during times that dust collected by the cyclone is being unloaded, for any visible fugitive dust emissions from the unloading area. 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:

Emissions Unit ID: **P003**

- a. Whether the emissions are representative of normal operations;
- b. If the emissions are not representative of normal operations, the cause of the abnormal visible emissions;
- c. The total duration of any abnormal visible emission incident; and
- d. Any corrective actions taken to eliminate the abnormal visible emissions.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the dust collect did not comply with the allowable range specified above.

The quarterly deviations reports shall be submitted in accordance with the General Terms and Conditions. These reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

2. The permittee shall submit semiannual written reports that (a) identify all days during which any abnormal visible particulate emissions were observed from the area where cyclone dust is unloaded and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Northeast District Office of Ohio EPA by January 31 and July 31 of each year and shall cover the previous six-month period.

E. Testing Requirements

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

- a. Emission Limitation:
Particulate emissions shall not exceed 0.01 grain per dscf of exhaust gas, 0.64 pound per hour and 2.80 tons per year from the dust collector exhaust.

Applicable Compliance Methods:

If required, compliance with the grain loading and hourly limits shall be determined according to OAC rule 3745-17-03(B)(10), (Method 5, 40 CFR, Part 60, Appendix A).

The annual limit was created by multiplying the hourly limit by 8,760 hrs/yr and dividing

by 2,000 lbs/ton. Therefore, as long as compliance with the hourly limit is demonstrated, compliance with the annual limit is assumed.

- b. Emission Limitation:
There shall be no visible emissions from the dust collector exhaust.

Applicable Compliance Methods:

Compliance with the no visible emission limit for the exhaust from the dust collector shall be determined using visible emission observations in accordance with Method 22 of 40 CFR, Part 60, Appendix A.

- c. Emission Limitation:
Visible emissions shall not exceed 20% opacity, as a 3-minute average from fugitive particulate emissions during loadout.

Applicable Compliance Method:

If required, compliance with the visible fugitive emission limitation shall be determined by OAC rule 3745-17-03(B)(3), in accordance with Method 9, as set forth in 40 CFR Part 60, Appendix A.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
R001 - sealer/topcoat coating booth w/ HVLP spray gun and fabric filters	OAC rule 3745-31-05(A)(3)	Emissions of volatile organic compounds (VOC) shall not exceed 17.13 lbs/hr and 75.03 TPY from coatings employed in this booth. VOC emissions from cleanup materials shall not exceed 0.46 TPY. See section A.2.a.
	OAC rule 3745-21-07(G)(2)	See section A.2.b.

2. Additional Terms and Conditions

- 2.a The VOC content of each coating employed shall not exceed 5.71 pounds per gallon, as applied.
- 2.b The permittee shall not employ any liquid organic material in this emissions unit that is a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

B. Operational Restrictions

1. All exhaust from the spray booth shall pass through the dry filters whenever this emissions unit is in operation.

C. Monitoring and/or Record keeping Requirements

1. The permittee shall keep the following records for all organic materials used in this emissions unit:
 - a. An identification of each chemical compound in each organic material and its physical state; and
 - b. For any liquid organic material, whether or not the material is a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).
2. The permittee shall collect and record the following information each day:
 - a. The name and identification number of each coating employed;
 - b. The number of gallons of each coating employed;
 - c. The VOC content of each coating employed, as applied;
 - d. The number of hours of operation for this emissions unit; and
 - e. The average hourly VOC emissions rate [summation of (b x c) / d for each coating].
3. The permittee shall collect and record the following each month for the cleanup material employed:
 - a. The name and identification number of each cleanup material employed;
 - b. The VOC content of each cleanup material, in lbs/gallon as applied;
 - c. The number of gallons of cleanup material employed;
 - d. The number of gallons of cleanup material waste recovered for disposal; and
 - e. The total VOC emissions from all cleanup materials employed using an average 95% solvent content for cleanup material waste, in lbs/month [summation of (b x c) - (b x d x 0.95) for each cleanup material].
4. The permit to install for this emissions unit, R001, was 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 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). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Compound: isobutyl alcohol

TLV (mg/m³): 154.153

Maximum Hourly Emission Rate (lbs/hr): 2.28

Predicted 1-Hour Maximum Ground-Level

Concentration (ug/m³): 278.69

MAGLC (ug/m³): 3,608.92

5. 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

Emissions Unit ID: **R001**

solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

6. 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 submit quarterly deviation (excursion) reports that include the following information:
 - a. An identification of each day during which any photochemically reactive material was employed;
 - b. An identification of each day during which the VOC content of any coating exceeded 5.71 pounds per gallon, as applied in this emissions unit and the actual VOC content of each such coating employed;
 - c. An identification of each day during which more than 17.13 lbs/hr of VOC was emitted as an average for the day, and the actual average hourly VOC emission rate for each such day; and
 - d. An identification of each month during which the annual VOC emission limitation for cleanup material (0.46 TPY) was exceeded, and the actual annual VOC emission rate for the annual period.

The quarterly deviations reports shall be submitted in accordance with the General Terms and Conditions. These reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

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 Limitation:
17.13 lbs/hr of VOC and 75.03 TPY

Applicable Compliance Method:

Compliance with the hourly VOC emission limitation shall be determined by the record keeping requirements specified in section C.2. of these terms and conditions.

The annual limit was created by multiplying the hourly limit by 8,760 hrs/yr and dividing by 2,000 lbs/ton. Therefore, as long as compliance with the hourly limit is demonstrated, compliance with the annual limit is assumed.

- b. Emission Limitation:
VOC emissions from cleanup materials shall not exceed 0.46 TPY.

Applicable Compliance Method:

Compliance with the annual VOC emission limitation shall be determined by the record keeping requirements specified in section C.3. of these terms and conditions.

- c. Emission Limitation:
The VOC content of each coating shall not exceed 5.71 pounds per gallon, as applied.

Applicable Compliance Method:

Compliance with the VOC content restriction shall be determined by the record keeping requirements specified in section C.2. of these terms and conditions.

F. Miscellaneous Requirements

None