



State of Ohio Environmental Protection Agency

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

**CERTIFIED MAIL**

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 01-08548**

**DATE:** 5/9/2002

Dream Garage LLC  
Stephen Dunson  
2195 Broehm Rd  
Columbus, OH 43207

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

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

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

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

Very truly yours,

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

cc: USEPA

CDO



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**Permit To Install  
Terms and Conditions**

**Issue Date: 5/9/2002  
Effective Date: 5/9/2002**

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**FINAL PERMIT TO INSTALL 01-08548**

Application Number: 01-08548  
APS Premise Number: 0125042500  
Permit Fee: **\$200**  
Name of Facility: Dream Garage LLC  
Person to Contact: Stephen Dunson  
Address: 2195 Broehm Rd  
Columbus, OH 43207

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

**2195 Broehm Rd  
Columbus, Ohio**

Description of proposed emissions unit(s):

**1 spray coating booth and associated air drying bays.**

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

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

#### 2. Reporting Requirements Related to Monitoring and Record keeping Requirements

The permittee shall submit required reports in the following manner:

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

#### 3. Records Retention Requirements

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

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

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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

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Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

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

**10. Public Disclosure**

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

**11. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

**12. Best Available Technology**

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

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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

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**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>
OC	67
PE	0.6

## PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
R001 - Plastic parts coating booth with flash-off oven	OAC rule 3745-31-05(A)(3)	Organic compound (OC) emissions shall not exceed 15.2 lbs/hr, excluding cleanup materials, and 67 tons/yr, including cleanup materials. See section A.2.a, A.2.b and A.2.c below.
		Particulate emissions (PE) shall not exceed 0.14 lb PE/hr and 0.6 ton/yr. See section A.2.b below.
		The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-21-07(G)(2) and OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, from any stack, except as provided by rule.
	OAC rule 3745-21-07(G)(2)	See section A.2.a below.
	OAC rule 3745-31-05(D)	See sections A.2.a, A.2.d, B.1 and B.2 below.

### 2. Additional Terms and Conditions

- 2.a To avoid the emission limitations/control requirements contained in OAC rule 3745-21-

07(G)(2), no photochemically reactive materials (i.e., as raw materials or cleanup materials) shall be employed in this emissions unit.

Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).

- 2.b** The 15.2 lbs OC/hr and 0.14 lb PE/hr limitations for this emissions unit were established to reflect the maximum hourly potential to emit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
- 2.c** Each emissions unit will be operated and maintained in accordance with manufacturers recommendations. Spray booth exhaust filters shall be maintained (changed or cleaned) regularly per manufacturer's recommendations in order to maintain the highest effective level of particulate emissions control. Maintenance of exhaust filters (cleaning and/or changing of filter elements) shall be recorded in an operations log maintained at this facility.
- 2.d** The emissions of hazardous air pollutants (HAPs), as defined in Section 112(b) of the Clean Air Act, from emissions unit R001, shall not exceed 10.0 tons per year for an individual HAP and 25 tons per year for any combination of HAPs, per rolling, 12-month period.

## **B. Operational Restrictions**

- 1.** The permittee shall employ a coating with solvent content that does not exceed 6.8 lbs OC/gallon and 1.2 lbs methyl isobutyl ketone/gallon.
- 2.** The permittee shall not employ more than 120 gallons of acetone per year as a cleanup solvent.
- 3.** The permittee shall vent all emissions from coating operation to the dry filtration system, whenever this emissions unit is in operation.

## **C. Monitoring and/or Record keeping Requirements**

- 1.** The permittee shall collect and record the following information for booth 1 (R001) during each day during which adhesives are applied:
  - a.** The company identification for each coating employed and whether or not the material is a photochemically reactive material;

- b. The number of gallons of each coating employed in each booth;
- c. The OC and HAP content of each coating, in pounds per gallon;
- d. The total OC emission rate for all coatings, in pounds per day;
- e. The total number of hours that each booth was in operation; and
- f. The average hourly OC emission rate in each booth for all coatings, i.e., (d)/(e), in pounds per hour (average).

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

2. The permittee shall collect and record the following information during each month for the purpose of determining annual OC emissions:
  - a. The company identification for each cleanup material employed and whether or not the material is a photochemically reactive material;
  - b. The number of gallons of each cleanup material employed in each booth;
  - c. The OC and HAP content of each cleanup material, in pounds per gallon;
  - d. The total OC and HAP emissions for all cleanup materials, in pounds;
  - e. The total OC and HAP emission rate for all coating, in pounds, by summing the daily emissions from C.1.d. above; and,
  - f. The monthly OC and HAP emission rate for all coatings and cleanup materials, in pounds (i.e., the sum of the figures from items (d) and (e)).
  - g. Calculation of the total combined HAP emissions for all HAPs for all coatings and cleanup materials employed, in pounds or tons per month and summation of rolling, twelve-month combined HAP emission rate (summation of item (f) for the current month plus the previous 11-month emission rate, above).

A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Ohio EPA field office or local air agency contact. Material

Emissions Unit ID: R001

Safety Data Sheets typically include a listing of the solvents contained in the coatings or cleanup materials. This information does not have to be kept on a line-by-line basis.

3. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.
4. The permit to install for these emissions units in this permit 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):

Pollutants: n-butyl acetate

TLV ( $\mu\text{g}/\text{m}^3$ ): 713,000

Maximum Hourly Emission Rate (lbs/hr): 6.41

Predicted 1-Hour Maximum Ground-Level Concentration ( $\mu\text{g}/\text{m}^3$ ): 3,360

MAGLC ( $\mu\text{g}/\text{m}^3$ ): 16,968

Pollutants: methyl isobutyl ketone

TLV ( $\mu\text{g}/\text{m}^3$ ): 205,000

Maximum Hourly Emission Rate (lbs/hr): 6.41

Predicted 1-Hour Maximum Ground-Level Concentration ( $\mu\text{g}/\text{m}^3$ ): 3,360

MAGLC ( $\mu\text{g}/\text{m}^3$ ): 4,877

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.

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 Central District Office in writing of the following:
  - a. Any monthly record showing the use of photochemically reactive coatings or cleanup materials; and
  - b. Any daily record showing that the dry filtration system was not in service when the emissions unit was in operation.

Emissions Unit ID: **R001**

The notification shall include a copy of such record and shall be sent to the Central District Office within 30 days after the event occurs.

2. In accordance with the General Terms and Conditions of this permit, the permittee shall submit quarterly deviation (excursion) reports for any exceedance of the operating restrictions set forth in terms A.2.d, B.1. and B.2. for the previous three calendar months.

## **E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emissions Limitation:  
OC emissions shall not exceed 15.2 lbs/hr, excluding cleanup solvent usage.

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limit based upon calculation of maximum coating application per hour of operation: 4 gals/hr \* 3.8 lbs OC/gal = 15.2 lbs OC/hr

- b. Emission Limitation:  
OC emissions shall not exceed 67 ton per year, including cleanup solvent usage.

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limit based upon the record keeping requirements in section C.2.f., above of coatings applied per day and per rolling, 12-month period.

- c. Emission Limitation:  
PE shall not exceed 0.14 lb PE/hr and 0.6 ton/yr.

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limit based upon calculation of the maximum hourly application rate and solids content:  $10.68 \text{ lbs/gal coating} * 4 \text{ gals/hr} * 0.68 \text{ solids(PE)/wt} * (1 - 0.5) \text{ te} * (1 - 0.98) \text{ ce} = 0.07 \text{ lb PE/hr}$ ;  $10.68 \text{ lbs/gal coating} * 4 \text{ gals/hr} * 0.68 \text{ PE/wt} * (1 - 0.5) \text{ te} * (0.98) * (1 - 0.98) = 0.07 \text{ lb PE/hr}$   
 $0.07 \text{ lb PE/hr} + 0.07 \text{ lb PE/hr} = 0.14 \text{ lb PE/hr}$   
 $0.14 \text{ lb PE/hr} * 8,760 \text{ hr/yr} * 1 \text{ ton}/2,000 \text{ lbs} = 0.6 \text{ ton/yr}$

- d. Emission Limitation:  
Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute

average, except as provided by rule.

**Applicable Compliance Method:**

If required, the permittee shall demonstrate compliance with the opacity limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Method 9, as such appendix existed on July 1, 1996, and OAC rule 3745-17-03(B)(1).

e. **Emission Limitation:**

The emissions of HAPs, as defined in Section 112(b) of the Clean Air Act, from emissions unit R001, shall not exceed 10.0 tons per year for an individual HAP and 25 tons per year for any combination of HAPs, per rolling, 12-month period.

**Applicable Compliance Method:**

The permittee shall demonstrate compliance with the above limit based upon the record keeping requirements in section C.2.f., above, of coatings applied per day and per rolling, 12-month period.

**F. Miscellaneous Requirements**

None

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08548 Facility ID: 0125042500

FACILITY NAME Dream Garage LLC

FACILITY DESCRIPTION 1 spray coating booth and associated air drying bays CITY/TWP Columbus

SIC CODE 3714 SCC CODE 4-02-022-01 EMISSIONS UNIT ID R001

EMISSIONS UNIT DESCRIPTION Plastic parts coating booth with flash-off oven

DATE INSTALLED 05/2002

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment			0.1	0.44
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds	Atytainment			15.2	67
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics	MIBK;			6.1	

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

**Enter Determination** Use of nonphotochemiacally reactive formulation and compliance with the Ohio toxic policy.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY?

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

**TOXIC AIR CONTAMINANTS**

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

AIR TOXICS MODELING PERFORMED\*? x YES        NO

IDENTIFY THE AIR CONTAMINANTS: MIBK