



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center  
122 S. Front Street  
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049  
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL  
FRANKLIN COUNTY  
Application No: 01-08189**

**CERTIFIED MAIL**

Y	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

**DATE: 7/13/00**

Tyler Bridge & Steel Coatings Inc  
Harry Beale  
775 Kaderly Dr  
Columbus, OH 43228

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



**FINAL PERMIT TO INSTALL 01-08189**

Application Number: 01-08189  
APS Premise Number: 0125042438  
Permit Fee: **\$800**  
Name of Facility: Tyler Bridge & Steel Coatings Inc  
Person to Contact: Harry Beale  
Address: 775 Kaderly Dr  
Columbus, OH 43228

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**700 Marion Rd  
Columbus, Ohio**

Description of proposed emissions unit(s):  
**Paint spray booth.**

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

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

#### 1. Compliance Requirements

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

#### 2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

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

#### 3. Records Retention Requirements

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

#### 4. Inspections and Information Requests

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

be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

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

**6. Permit Transfers**

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

**7. Air Pollution Nuisance**

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

**8. Termination of Permit to Install**

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

**9. Construction of New Sources(s)**

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

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

**10. Public Disclosure**

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

**11. Applicability**

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

**12. Best Available Technology**

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

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

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

**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**

<b><u>Pollutant</u></b>	<b><u>Tons Per Year</u></b>
VOC	2.44

**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>
K001 - Miscellaneous metal parts spray booth w/dry filter	OAC rule 3745-31-05	Volatile organic compound emissions shall not exceed 8.75 lb/hr excluding cleanup materials and 2.44 ton/yr, including cleanup materials. See A.I.2.a. and A.I.2.b., A.II.1. and A.II.2. below.
	OAC rule 3745-21-09(U)(1)(i)	The VOC content shall not exceed 3.5 lb/gallon of coating , excluding water and exempt solvents, for miscellaneous metal coatings not regulated under paragraphs (U)(1)(a) to (U)(1)(h) of OAC rule 3745-21-09.

**2. Additional Terms and Conditions**

- 2.a The 8.75 lb VOC/hr limitation for this emissions unit was established to reflect the hourly potential to emit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
- 2.b The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-21-09(U)(1)(i).
- 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 manufactures 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.

**B. Operational Restrictions**

1. The maximum monthly cleanup usage for this emissions unit shall not exceed 3 gallons. The volatile organic content of the cleanup material shall not exceed 7.25 lb VOC per gallon (excluding water and exempt solvent).
2. The maximum annual coating usage for this emissions unit shall not exceed 1,350 gallons.
3. The permittee shall operate the dry filtration system, whenever this emissions unit is in operation.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect and record the following information each month for the line:
  - a. the name and identification number of each coating, as applied;
  - b. the VOC content (excluding water and exempt solvents) of each coating, as applied, and;
  - c. the number of gallons (excluding water and exempt solvents) of each coating, as applied.
2. The permittee shall collect and record the following information each month for the purpose of determining annual VOC emissions:
  - a. the name and identification of each cleanup material employed;
  - b. the number of gallons of each cleanup material employed;
  - c. the VOC content of each cleanup material, in pounds per gallon, and;
  - d. the monthly VOC emissions from all coatings and cleanup materials, in pounds or tons, i.e., the total summation of each coating and cleanup material times the respective VOC content of each coating or cleanup material.
3. The permit to install for this emissions unit K001 was evaluated based on the actual materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application. To fulfill the best available technology requirements of OAC rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model (or other Ohio EPA approved model) and compared the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Xylene

TLV (ug/m3): 434,000

Maximum Hourly Emission Rate (lbs/hr): 7.2

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 658

MAGLC (ug/m3): 10,333

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 still 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.

4. Record keeping requirements for emissions units that must comply with the Air Toxic Policy

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that a 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 any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Central District Office within 30 days following the end of the calendar month.
2. If the annual emission limit of 2.44 tons per year of VOC is exceeded at any time within the calendar year, the permittee shall submit an emissions report which specifies the total VOC emissions from this emissions unit and the period of time the exceedance occurred. This report shall be submitted within 30 days after the deviation occurs.

**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:  
Volatile organic compound emissions shall not exceed 8.75 pounds per hour, excluding cleanup.  
  
Applicable Compliance Method:  
Compliance shall be determined by multiplying the maximum application rate (2.5 gal/hr) times the maximum allowable VOC content (3.5 lb VOC/gal) equal 8.75 lb VOC/hr.
  - b. Emission Limitation:  
Volatile organic compound emissions shall not exceed 2.44 ton per year, including cleanup.  
  
Applicable Compliance Method:  
Compliance shall be based upon the cumulative 12 month emission rate determined monthly, in accordance with recordkeeping requirements in Section A.III.2.e.  
 $1,350 \text{ gallon coating/yr} * 3.5 \text{ lb VOC/gallon} * 1 \text{ ton/2000 pound} = 2.31 \text{ ton VOC/yr}$   
 $3 \text{ gallon cleanup/mo} * 12 \text{ mo/yr} * 7.25 \text{ lb VOC/gallon} * 1 \text{ ton/2000 pound} = 0.13 \text{ ton VOC/yr}$
  - c. Emission Limitation:  
3.5 pounds VOC per gallon of coating, excluding water and exempt solvents [for miscellaneous metal coatings not regulated under paragraphs (U)(1)(a) to (U)(1)(h) of OAC rule 3745-21-09.

**Applicable Compliance Method:**

Compliance shall be based upon the record keeping requirements specified in Section C. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24 shall be used to determine

the VOC contents of the coatings. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24.

**F. Miscellaneous Requirements**

None

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08189

Facility ID: 0125042438

FACILITY NAME Tyler Bridge & Steel Coatings IncFACILITY DESCRIPTION Paint spray booth. CITY/TWP ColumbusSIC CODE 3479 SCC CODE 4-02-025-01 EMISSIONS UNIT ID K001EMISSIONS UNIT DESCRIPTION miscellaneous metal parts spray booth w/dry filterDATE INSTALLED 5/00

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					
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds	Attainment			8.7	2.44
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics	xylene				

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP?

PSD?

OFFSET POLICY?

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

**Enter Determination** Compliance with VOC content and annual usage restriction.IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

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

**TOXIC AIR CONTAMINANTS**

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

AIR TOXICS MODELING PERFORMED\*? s YES \_\_\_\_\_ NO \_\_\_\_\_IDENTIFY THE AIR CONTAMINANTS: xylene

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08189

Facility ID: 0125042438

FACILITY NAME Tyler Bridge &amp; Steel Coatings Inc

FACILITY DESCRIPTION Paint spray booth.

CITY/TWP Columbus

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

<u>Please fill out the following. If the checkbox does not work, replace it with an 'X'</u>	<u>Electronic</u>	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	<u>Hard Copy</u>	<u>None</u>
<u>Calculations (required)</u>	<input checked="" type="checkbox"/>	0000000c.wpd	<input type="checkbox"/>	
<u>Modeling form/results</u>	<input type="checkbox"/>	0000000s.wpd	<input type="checkbox"/>	<input type="checkbox"/>
<u>PTI Application (complete or partial)*</u>	<input type="checkbox"/>	0000000a.wpd	<input type="checkbox"/>	<input type="checkbox"/>
<u>BAT Study</u>	<input type="checkbox"/>	0000000b.wpd	<input type="checkbox"/>	<input type="checkbox"/>
<u>Other/misc.</u>	<input type="checkbox"/>	0000000t.wpd	<input type="checkbox"/>	<input type="checkbox"/>

\* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

**NSR Discussion**

Tyler Bridge and Steel Coating - K001

**A. General Information**

Tyler Bridge (Tyler) proposes to install an enclosed paint booth (K001) for miscellaneous metal parts coating at an existing location. The enclosed booth will be 50 feet long by 10 feet wide by 10 feet in height and will be used to prime and coat steel I-beams with a dry filter for capturing over spray particulate emissions. The application states that a maximum of 3 parts will be coated per hour with a maximum of 780 parts coated per year. A Graco airless spray applicator will be used to apply a maximum of 2.5 gallon/hour and 675 gallons/year of both primers and enamel coatings.

**B. Applicable Rules**

**OAC rule 3745-21-09(U)(1)(c)** - The VOC content for non-specialty coatings will be limited to 3.5 lb VOC/gallon minus water and exempt solvent for miscellaneous metal parts coating. Tyler proposes to use a compliant coating with a content of 3.42 lb VOC /gallon of coating excluding water and exempt solvent as listed in the MSDS sheet.

**OAC rule 3745-31-05** - The application proposes maximum emission rates of 8.75 lb VOC/hr based on a 3.42 lb VOC/gallon times 2.5 gallons per hour applied and 2.44 ton VOC/yr based on the 1,350 gallons of coating per year.

**C. Miscellaneous**

The application lists an installation date of May 15, 2000.

PTI Number: 01-08189

Facility ID: 0125042438

FACILITY NAME Tyler Bridge & Steel Coatings Inc

FACILITY DESCRIPTION Paint spray booth.

CITY/TWP Columbus

**D. Fee**

Tyler Bridge operates under SIC code of 3479. This booth would have a minimum fee of \$200.00, that would be doubled because Tyler has already installed and operated.

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

**Calculations**

**VOC emission limit:**

**Hourly -  $3.5 \text{ lb VOC/gal} * 2.5 \text{ gal/hr} = 8.75 \text{ lb VOC/hr}$**

**Annual - coating -  $3.5 \text{ lb VOC/gal} * 1,350 \text{ gal/yr} * 1 \text{ ton}/2,000 \text{ lb} = 2.3 \text{ ton VOC/yr}$**

**- cleanup -  $7.25 \text{ lb VOC/gal} * 36 \text{ gal/yr} ** 1 \text{ ton}/2,000 \text{ lbs} = 0.13 \text{ ton VOC/yr}$**

**Xylene emissions -  $8.75 \text{ lb VOC/hr} * 0.82 = 7.18 \text{ lb/hr} * 454 \text{ g/lb} * 1 \text{ hr}/60 \text{ min} * 1 \text{ min}/60 \text{ sec} = 0.905 \text{ g/sec}$**

**$2.3 \text{ ton VOC/yr} * 0.82 = 1.88 \text{ ton/yr}$**

**Total VOC emission rate =  $2.3 \text{ ton VOC/yr} + 0.13 \text{ ton VOC/yr} = 2.44 \text{ ton VOC/yr}$**

**Please complete:**

**SUMMARY (for informational purposes only)**

**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

Pollutant

Tons Per Year

**VOC**

**2.44**