



State of Ohio Environmental Protection Agency

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

**CERTIFIED MAIL**

Street Address:

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

Mailing Address:

Lazarus Gov.  
Center

**Application No: 03-13262**

**DATE: 06/07/2000**

Crane Plumbing Company  
Mark Campbell  
41 Cairns Rd  
Mansfield, OH 449030000

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  
Field Operations and Permit Section  
Division of Air Pollution Control

CC: USEPA

NWDO



**Permit To Install  
Terms and Conditions**

**Issue Date: 06/07/00  
Effective Date: 06/07/00**

**FINAL PERMIT TO INSTALL 03-13262**

Application Number: 03-13262  
APS Premise Number: 0370010176  
Permit Fee: **\$600**  
Name of Facility: Crane Plumbing Company  
Person to Contact: Mark Campbell  
Address: 41 Cairns Rd  
Mansfield, OH 449030000

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**41 Cairns Rd  
Mansfield, Ohio**

Description of proposed emissions unit(s):  
**New main line for gelcoating, curing, bag breaking, marble mixing, mold filling, curing and grinding in order to produce cultured marble vanity tops.**

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. State and Federally Enforceable Permit To Install General Terms and Conditions

#### 1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - i. The date, place (as defined in the permit), and time of sampling or measurements.
  - ii. The date(s) analyses were performed.
  - iii. The company or entity that performed the analyses.
  - iv. The analytical techniques or methods used.
  - v. The results of such analyses.
  - vi. The operating conditions existing at the time of sampling or measurement.
- b. 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be

made to the appropriate Ohio EPA District Office or local air agency. The written 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. See B.11 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

## **2. 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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

## **3. Risk Management Plans**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

## **4. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

## **5. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

## **6. General Requirements**

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. 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 request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

## **7. 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.

## **8. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

## **9. Compliance Requirements**

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
  - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

- i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
- ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

#### **10. Permit To Operate Application**

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 source(s) covered by this permit.

## **B. State Only Enforceable 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 of state-only enforceable 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 state-only required 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. 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.

### **4. 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.

### **5. 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.

**6. 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.

**7. 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.

**8. 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).

**9. 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.

#### **10. 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.

#### **11. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

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.

#### **C. 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	53.1
PE	2.3

Crane Plumbing Company  
PTI Application: **03-13262**  
**Issued:06/07/00**

Facility ID: **0370010176**

**Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**

**A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. State and Federally Enforceable Section****I. 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>
P010 - Marble Mixing and Curing	OAC Rule 3745-31-05 (A)	5.41 lbs Organic Compounds (OC)/hr and 14.1 tons OC/yr
		874 lbs OC /month and 5.2 tons OC/yr (group limit from cleanup, see A.I.2.a.)
		operational restriction (see A.II.3.)
		Compliance with Maximum Achievable Control Technology [(MACT),see A.I.2.b.]
	OAC rule 3745-31-28	MACT determination (see A.I.2.b.)
	OAC rule 3745-21-07(G)(9)(g)	exempt (see A.I.2.c.)

**2. Additional Terms and Conditions**

- 2.a OC emissions from the use of cleanup materials in emissions units P001, P004, P010, R001, R002, R003, R004, R005, R006, and R010 as a group shall not exceed 874 lbs OC /month and 5.2 tons OC/yr. Emissions units P001, P004, R001, R002, R003, R004, R005, and R006 are included in PTI # 03-8793.
- 2.b In accordance with OAC rule 3745-31-28, MACT for this emissions unit has been determined to be the operational standards found in conditions A.II.1. and A.II.2. below.

- 2.c** In accordance with OAC rule 3745-21-07(G)(9)(g), Best Available Technology (BAT) for this emissions unit, as established pursuant to OAC rule 3745-31-05, has been determined to be more stringent than, or inconsistent with, the requirements of OAC rule 3745-21-07(G).

## **II. Operational Restrictions**

1. The maximum monomer content, in weight percent, for the polyester resins employed in this emissions unit shall not exceed the following:
  - a. pigmented resin used in the veining process - eighteen percent (18%), as applied
  - b. all other polyester resins - thirty-three point five percent (33.5%), as applied.
2. The use of cleanup materials containing Hazardous Air Pollutants (HAPs), as defined in 112(G) of the Clean Air Act, in this emissions unit is prohibited.
3. The use of photochemically reactive cleanup materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit is prohibited.

## **III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain records of the following information for this emissions unit:
  - a. the name and identification of each polyester resin material and cleanup material employed;
  - b. the monomer content, in weight percent, for each polyester resin material, as applied;
  - c. documentation on whether or not each cleanup material employed is a photochemically reactive material;
  - d. documentation on the HAP content of each cleanup material employed.
2. The permittee shall collect and record the following information each month for this emissions unit:
  - a. the name and identification of each polyester resin material employed;

- b. the monomer content, in weight percent, for each polyester resin material, as applied;
- c. the total OC emissions, for each polyester resin material employed, calculated using the following equation:

$$\text{total OC emissions (lbs/month)} = W \times 0.68 \times [(1.036 \times P) - .195]^*$$

where:

W = weight, in pounds of each polyester resin material

P = weight fraction of the monomer for each polyester resin material as applied, expressed as the monomer content, in weight percent, divided by 100%

- d. the total OC emissions, for all polyester resin materials, in pounds or tons (summation of c); and
  - e. the annual year to date OC emissions, for all polyester resin materials, in tons (summation of d for each calendar month to date from January to December).
- \* Based on Equation 7, Page 13, "CFA Emission Models for the Reinforced Plastics Industries," February 28, 1998
- 3. The permittee shall collect and record the following information each month for emissions units P001, P004, P010, R001, R002, R003, R004, R005, R006, and R010 combined:
    - a. the company identification for each cleanup material employed;
    - b. the number of gallons of each cleanup material employed;
    - c. the OC content of each cleanup material employed, in pounds per gallon.
    - d. the total OC emission rate for each cleanup material employed (b x c), in pounds or tons.
    - e. the total OC emission rate for all cleanup materials employed (summation of d), in tons.
    - f. the annual, year to date OC emission rate for all cleanup materials employed (summation of e for each calendar month to date from January to December), in tons.

The permittee may calculate OC emissions from cleanup materials in accordance with the following

formula if waste cleanup materials are sent off-site for disposal/reclamation:

OC emissions = (total gallons of cleanup material used) x (solvent density of cleanup material) - (total gallons of cleanup material sent off-site [minus solids]) x (solvent density of cleanup material).

#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all periods of time that a photochemically reactive cleanup material was employed or a cleanup material containing HAPs was employed.
2. The permittee shall submit deviation (excursion) reports which identify all periods of time that a noncomplying polyester resin materials (i.e., for weight percent of monomer) was employed.
3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the emissions limitations established under this permit.
4. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).

#### V. Testing Requirements

1. Compliance with the allowable emission limitations in this permit shall be determined according to the following methods:

- a. Emission Limitation  
5.41 lbs OC/hr and 14.1 tons OC/yr

Applicable Compliance Method

The hourly emissions limitation represents the potential to emit for this emissions unit, i.e., the maximum usage rate (20 lbs/hr for veining, 527 lbs/hr for other resins) and the maximum monomer weight percent allowed under the restrictions of this permit, calculated using the equation in condition A.III.2. above. Therefore no additional requirements are necessary to show compliance with this limit. Compliance with the annual emission limitation shall be determined by the record keeping required in condition A.III.2.

- b. Emission Limitation  
874 lbs OC/month and 5.2 tons OC/yr from the use of cleanup materials in emissions units P001, P004, P010, R001, R002, R003, R004, R005, R006, and R010

Applicable Compliance Method

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Crane

PTI A<sub>1</sub>

**Issued:06/07/00**

Emissions Unit ID: **P010**

Compliance with the monthly emission limitation shall be determined by the record keeping required in condition A.III.3.

**VI. Miscellaneous Requirements**

none

**B. State Only Enforceable Section**

**I. 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>
P010 - Marble Mixing and Curing	None	None

**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

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

**IV. Reporting Requirements**

**V. Testing Requirements**

**VI. Miscellaneous Requirements**

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. 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>
R010 - Gelcoat spraybooth and curing tunnel.	OAC Rule 3745-31-05 (A)	19.51 lbs Organic Compounds (OC)/hr and 33.8 tons OC/yr
		874 lbs OC /month and 5.2 tons OC/yr (group limit from cleanup, see A.I.2.b.)
		0.53 lb Particulate Emissions (PE)/hr and 2.3 tons PE/yr
		Visible particulate emissions shall not exceed 0 percent opacity as a six-minute average
		operational restrictions (see II.A.)
		Compliance with Maximum Achievable Control Technology [(MACT),see A.I.2.c.]
	OAC Rule 3745-17-11(B)(4)	(see A.I.2.a.)
	OAC Rule 3745-17-07(A)	(see A.I.2.a)
	OAC rule 3745-31-28	MACT determination (see A.I.2.c.)
	OAC rule 3745-21-07(G)(9)(g)	exempt (see A.I.2.d.)

**2. Additional Terms and Conditions**

- 2.a** The emissions limit based on this applicable rule is equivalent to or less stringent than the limit established pursuant to OAC rule 3745-31-05.
- 2.b** OC emissions from the use of cleanup materials in emissions units P001, P004, P010, R001, R002, R003, R004, R005, R006, and R010 as a group shall not exceed 874 lbs OC /month and 5.2 tons OC/yr. Emissions units P001, P004, R001, R002, R003, R004, R005, and R006 are included in PTI # 03-8793.
- 2.c** In accordance with OAC rule 3745-31-28, MACT for this emissions unit has been determined to be the operational standards found in conditions A.II.1. and A.II.2. below.
- 2.d** In accordance with OAC rule 3745-21-07(G)(9)(g), Best Available Technology (BAT) for this emissions unit, as established pursuant to OAC rule 3745-31-05, has been determined to be more stringent than, or inconsistent with, the requirements of OAC rule 3745-21-07(G).

**II. Operational Restrictions**

- 1. The maximum monomer content, in weight percent, as applied, for the gelcoats employed in this emissions unit shall not exceed the following:
  - a. clear gelcoats - forty four percent (44%)
  - b. all other gelcoats - thirty percent (30%)
- 2. The use of photochemically reactive cleanup materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit is prohibited.
- 3. The use of cleanup materials containing Hazardous Air Pollutants (HAPs), as defined in 112(G) of the Clean Air Act, in this emissions unit is prohibited.
- 4. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

**III. Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain records of the following information for this emissions unit:

Issued:06/07/00

- a. the name and identification of each gelcoat and cleanup material employed;
- b. the monomer content, in weight percent for each gelcoat, as applied;
- c. documentation on whether or not each cleanup material employed is a photochemically reactive material;
- d. documentation on the HAP content of each cleanup material employed.

2. The permittee shall collect and record the following information each month for this emissions unit:

- a. the name and identification of each gelcoat employed;
- b. the monomer content, in weight percent, for each gelcoat, as applied;
- c. the total OC emissions, for each gelcoat employed, calculated using the following equation:

$$\text{total OC emissions (lbs/month)} = W \times 0.68 \times [(1.036 \times P) - .195]^*$$

Where:

W = weight, in pounds of each gelcoat

P = weight fraction of the monomer for each gelcoat, as applied, expressed as the monomer content, in weight percent, divided by 100%;

- d. the total OC emissions, for all gelcoats, in pounds or tons (summation of c);
- e. the annual year to date OC emissions, for all gelcoats, in tons (summation of d for each calendar month to date from January to December).

\* Based on Equation 7, Page 13, "CFA Emission Models for the Reinforced Plastics Industries," February 28, 1998

3. The permittee shall collect and record the following information each month for emissions units P001, P004, P010, R001, R002, R003, R004, R005, R006, and R010 combined:

- a. the company identification for each cleanup material employed;

- b. the number of gallons of each cleanup material employed;
- c. the organic compound content of each cleanup material employed, in pounds per gallon.
- d. the total OC emission rate for each cleanup material employed (b x c), in pounds or tons.
- e. the total OC emission rate for all cleanup materials employed (summation of d), in tons.
- f. the annual, year to date OC emission rate for all cleanup materials employed (summation of e for each calendar month to date from January to December), in tons.

The permittee may calculate OC emissions from cleanup materials in accordance with the following formula if waste cleanup materials are sent off-site for disposal/reclamation:

OC emissions = (total gallons of cleanup material used) x (solvent density of cleanup material) - (total gallons of cleanup material sent off-site [minus solids]) x (solvent density of cleanup material).

4. 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.

#### **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify all periods of time that a photochemically reactive cleanup material was employed or a cleanup material containing HAPs was employed.
2. The permittee shall submit deviation (excursion) reports which identify all periods of time that a noncomplying gelcoat (i.e., for weight percent of monomer) was employed.
3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the emissions limitations established under this permit.
4. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any daily record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.
5. Except as otherwise specified, the above reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).

**V. Testing Requirements**

1. Compliance with the allowable emission limitations in this permit shall be determined according to the following methods:
  - a. Emission Limitation  
19.51 lbs Organic Compounds (OC)/hr and 33.8 tons OC/yr

Applicable Compliance Method

The hourly emissions limitation represents the potential to emit for this emissions unit, i.e., the maximum usage rate of 110 lbs of gelcoat/hr and the maximum monomer weight percent allowed under the restrictions of this permit, calculated using the equation in condition

A.III.2. above. Therefore no additional requirements are necessary to show compliance with this limit. Compliance with the annual emission limitation shall be determined by the record keeping required in condition A.III.2.

b. Emission Limitation

874 lbs OC per month and 5.2 tons OC/yr from the use of cleanup materials in emissions units P001, P004, P010, R001, R002, R003, R004, R005, R006, and R010

Applicable Compliance Method

Compliance with the monthly emission limitation shall be determined by the record keeping required in condition A.III.3.

c. Emission Limitation

0.53 lb Particulate Emissions (PE)/hr and 2.3 tons PE/yr

Applicable Compliance Method

To determine the actual worst case particulate emissions rate (E), the following equation shall be used for the paint spraying operation :

$E = \text{particulate emissions rate (lbs/hr)}$

$E = \text{maximum coating solids usage, in pounds per hour} \times (1-TE)(1-CE)$  where

TE = transfer efficiency, which is the ration of the amount of coating solids deposited on the coated part to the amount of coating solids used (assumed to be 62.5%)

CE = control efficiency of the control equipment (assumed to be 98%)

If required, the permittee shall demonstrate compliance with the above emissions limit in accordance with Method 5, 40 CFR Part 60 Appendix A.

The tons of PE/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8760 hrs/yr and dividing by 2000 lbs/ton. Therefore provided compliance is shown with the hourly limitation, compliance will also be shown

Crane Plumbing Company  
PTI Application: 02 12262  
**Issued**

Facility ID: 0370010176

Emissions Unit ID: R010

with the annual limitation.

25

Crane

PTI A<sub>1</sub>

**Issued:06/07/00**

Emissions Unit ID: R010

d. Emission Limitation

Visible particulate emissions shall not exceed 0 percent opacity as a six-minute average.

Applicable Compliance Method

Compliance with the visible emissions limitation established by this permit shall be determined by Method 9, 40 CFR Part 60 Appendix A.

**VI. Miscellaneous Requirements**

None

**B. State Only Enforceable Section**

**I. 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>
R010 - Gelcoat spraybooth	None	None

**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

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

**IV. Reporting Requirements**

**V. Testing Requirements**

**VI. Miscellaneous Requirements**

**NEW SOURCE REVIEW FORM B**

PTI Number: 03-13262 Facility ID: 0370010176

FACILITY NAME Crane Plumbing Company

FACILITY DESCRIPTION produces cultured marble vanity tops. CITY/TWP Mansfield

Emissions Unit ID: R010

SIC CODE 3088 SCC CODE 3-08-007-20 EMISSIONS UNIT ID P010

EMISSIONS UNIT DESCRIPTION marble molding & curing.

DATE INSTALLED approx 6/00

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				5.41	14.1
Nitrogen Oxides				874 lbs OC/ month (cleanup)	5.2
Carbon Monoxide					
Lead					
Other: Air Toxics					

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 the terms and conditions of this permit

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? N/A

**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\*? YES NO

IDENTIFY THE AIR CONTAMINANTS:

Emissions Unit ID: R010

**NEW SC**

PTI Num

FACILITY

Emissions Unit ID: R010

FACILITY DESCRIPTION produces cultured marble vanity tops. CITY/TWP Mansfield

SIC CODE 3088 SCC CODE 3-08-007-22 EMISSIONS UNIT ID R010

EMISSIONS UNIT DESCRIPTION Marble Gelcoating operation

DATE INSTALLED approx 6/00

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				19.51	33.8
Nitrogen Oxides				874 lbs OC/ month (cleanup)	5.2
Carbon Monoxide					
Lead					
Other: Air Toxics					

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 the terms and conditions of this permit

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No  
OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$N/A

**TOXIC AIR CONTAMINANTS**

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

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES \_\_\_\_\_ NO

IDENTIFY THE AIR CONTAMINANTS: \_\_\_\_\_

**NEW SC**

PTI Num

FACILITY

FACILITY DESCRIPTION

produces cultured marble vanity tops.

CITY/TWP

Mansfield

Emissions Unit ID: R010

\_\_\_\_\_