



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
ALLEN 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: 03-13822**

**DATE: 9/26/2002**

Colonial Sandblasting, Inc.  
Thomas Langhals  
4599 Campbell Rod  
Columbus Grove, OH 45830

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,

Michael W. Ahern, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

NWDO



**Permit To Install  
Terms and Conditions**

**Issue Date: 9/26/2002  
Effective Date: 9/26/2002**

**FINAL PERMIT TO INSTALL 03-13822**

Application Number: 03-13822  
APS Premise Number: 0302000208  
Permit Fee: **\$2000**  
Name of Facility: Colonial Sandblasting, Inc.  
Person to Contact: Thomas Langhals  
Address: 4599 Campbell Rod  
Columbus Grove, OH 45830

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

**4599 Campbell Road  
Columbus Grove, Ohio**

Description of proposed emissions unit(s):

**Paint Room, Paint ConveyORIZED Line with a Paint Booth, Sand blasting operation, and grit blasting operation.**

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

**Colonial Sandblasting, Inc.**  
**PTI Application: 03-13822**  
**Issued: 9/26/2002**

**Facility ID: 0302000208**

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

**Colonial Sandblasting, Inc.**  
**PTI Application: 03-13822**  
**Issued: 9/26/2002**

**Facility ID: 0302000208**

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.

Colonial Sandblasting, Inc.  
 PTI Application: 03-13822  
 Issued: 9/26/2002

Facility ID: 0302000208

#### 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	20.53
PE	7.77

## 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 - Paint Room	OAC rule 3745-31-05(A)(3)	From Coating Usage: 60.0 pounds organic compound (OC) per day 10.95 tons OC per year
		From Cleanup: 60.72 pounds OC per month 0.36 tons OC per year
	OAC rule 3745-21-09(U)(2)(e)(iii)	VOC emission exemption, based on maximum daily coating usage not exceeding 10 gallons of coating in any one day
	OAC rule 3745-17-07(A)	See A.2.a
	OAC rule 3745-17-11(B)	See A.2.b

### 2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the visible particulate emission limitations as specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of

OAC rule 3745-17-11 does not apply. In addition, Table 1 of OAC rule 3745-17-11 does not apply since the facility is located in Allen County, which is identified as a P-1 county.

## **B. Operational Restrictions**

None

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

1. The Permit to Install for this emissions unit K001 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):

Pollutant: Talc

TLV (ug/m3): 2,000

Maximum Hourly Emission Rate (lbs/hr): 2.20

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 47.16

MAGLC (ug/m3): 47.62

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.
2. The permittee shall collect and record the following information each day for the coating line:
- a. the name and identification number of each coating employed;
  - b. the volume, in gallons, of each coating employed;
  - c. the total volume, in gallons, of the coating as applied;
  - d. the OC content of the coating, as applied, in pounds per gallon;

3. The permittee shall collect and record the following information on a monthly basis:
  - a. the total volume, in gallons, of cleanup material employed;
  - b. the OC content of the cleanup material employed, in pounds per gallon;
  - c. the total OC emissions from the cleanup material, in pounds per month\* (sum of a. X b.);
  - d. the annual year to date OC emissions from the cleanup material usage (sum of c. for each calendar month to date from January to December);

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

OC emissions from cleanup operations = (total gallons of cleanup material used x solvent density of cleanup material) - (total gallons cleanup material sent off-site for disposal or reclamation [minus solids content of said material]) x solvent density.

4. The permittee shall (in conjunction with the information required in C.2.) collect and record the following information each month for purposes of determining annual OC emissions:
  - a. the total OC emissions from the coating, as applied (C.2.c. x C.2.d.);
  - b. the total combined OC emissions ((tons per month and total tons, to date) for the calendar year from the coating as applied (summation of C.4.a.).

#### **D. Reporting Requirements**

1. The permittee shall notify the Northwest District Office in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. The notification shall include a copy of such record and shall be sent to the Northwest District Office within 45 days after the exceedance occurs.
2. The permittee shall submit annual deviation (excursion) reports which document exceedances of the following:
  - a. the 10.95 tons of OC/year limitation for coating operations; and
  - b. the 0.36 tons of OC/year limitation for cleanup operations.

These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

#### **E. Testing Requirements**

1. Compliance Methods Requirements: Compliance with the emission limitations in Section A.1. of the terms and conditions of this permit shall be determined in accordance with the following method(s):

- a. Emission Limitation: 60.0 lbs OC per day

Applicable Compliance Method: The daily OC emission limitation is based on the emissions unit's potential to emit\*. Therefore, no daily record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

\* The potential to emit is based on the maximum usage rate of 10 gallons of coating per day and a maximum OC content of 6.00 pounds per gallon.

- b. Emission Limitation: 10.95 tons OC per year

Applicable Compliance Method: Compliance with the above emission limitation shall be based upon the record keeping requirements specified in Section C.4.

- c. Emission Limitation: 60.72 pounds OC per month

Applicable Compliance Method: Compliance with the above limitation shall be based upon the record keeping requirements specified in Section C.3.

- d. Emission Limitation: 0.36 tons OC per year

Applicable Compliance Method: The annual OC emission limitations from the use of cleanup materials shall be based upon record keeping requirements specified in Section C.3.

#### F. Miscellaneous Requirements

None

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

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
K002 - Paint Conveyorized Line with a Paint Booth	OAC rule 3745-31-05(A)(3)	From Coating Usage: 52.5 pounds organic compound (OC) per day 9.58 tons OC per year
	OAC rule 3745-21-09(U)(1)(d)	From Cleanup: 95.22 pounds OC per month 0.57 tons OC per year
	OAC rule 3745-17-07(A)	3.5 pounds of VOC per gallon of coating, excluding water and exempt solvents
	OAC rule 3745-17-11(B)	See A.2.a
		See A.2.b

**2. Additional Terms and Conditions**

- 2.a This emissions unit is exempt from the visible particulate emission limitations as specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- 2.b The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II

**Colon**

**PTI A**

**Issued: 9/26/2002**

Emissions Unit ID: **K002**

of  
OAC rule 3745-17-11 does not apply. In addition, Table 1 of OAC rule 3745-17-11 does not  
apply since the facility is located in Allen County, which is identified as a P-1 county.

**B. Operational Restrictions**

None

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

1. The Permit to Install for this emissions unit K002 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):

Pollutant: Methyl n-amyl Ketone

TLV (ug/m3): 233,497

Maximum Hourly Emission Rate (lbs/hr): 4.29

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 190.2

MAGLC (ug/m3): 5,559.5

Pollutant: Barium Sulfate

TLV (ug/m3): 10,000

Maximum Hourly Emission Rate (lbs/hr): 4.29

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 190.2

MAGLC (ug/m3): 238.10

Pollutant: Titanium dioxide

TLV (ug/m3): 10,000

Maximum Hourly Emission Rate (lbs/hr): 2.14

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 94.90

MAGLC (ug/m3): 238.10

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.

2. The permittee shall collect and record the following information each day for the coating line:
  - a. the name and identification number of each coating employed;
  - b. the volume, in gallons, of each coating employed;
  - c. the total volume, in gallons, of the coating as applied;
  - d. the OC content of the coating, as applied, in pounds per gallon;
3. The permittee shall collect and record the following information on a monthly basis:
  - a. the total volume, in gallons, of cleanup material employed;
  - b. the OC content of the cleanup material employed, in pounds per gallon;
  - c. the total OC emissions from the cleanup material, in pounds per month\* (sum of a. X b.);
  - d. the annual year to date OC emissions from the cleanup material usage (sum of c. for each calendar month to date from January to December);

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

OC emissions from cleanup operations = (total gallons of cleanup material used x solvent density of cleanup material) - (total gallons cleanup material sent off-site for disposal or reclamation [minus solids content of said material]) x solvent density.

4. The permittee shall (in conjunction with the information required in C.2.) collect and record the following information each month for purposes of determining annual OC emissions:
  - a. the total OC emissions from the coating, as applied (C.2.c. x C.2.d.);
  - b. the total combined OC emissions ((tons per month and total tons, to date) for the calendar year from the coating as applied (summation of C.4.a.).

#### **D. Reporting Requirements**

1. The permittee shall notify the Northwest District Office in writing of any daily record showing

Emissions Unit ID: **K002**

that the coating line employs more than the applicable maximum daily coating usage limit. The notification shall include a copy of such record and shall be sent to the Northwest District Office within 45 days after the exceedance occurs.

2. The permittee shall submit annual deviation (excursion) reports which document exceedances of the following:
  - a. the 9.58 tons of OC/year limitation for coating operations; and
  - b. the 0.57 tons of OC/year limitation for cleanup operations.

These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

#### **E. Testing Requirements**

1. Compliance Methods Requirements: Compliance with the emission limitations in Section A.1. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
  - a. Emission Limitation: 52.5 lbs OC per day  
  
Applicable Compliance Method: The daily OC emission limitation is based on the emissions unit's potential to emit\*. Therefore, no daily record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.  
  
\* The potential to emit is based on the maximum usage rate of 15 gallons of coating per day and a maximum OC content of 3.5 pounds per gallon.
  - b. Emission Limitation: 9.58 tons OC per year  
  
Applicable Compliance Method: Compliance with the above emission limitation shall be based upon the record keeping requirements specified in Section C.4.
  - c. Emission Limitation: 95.22 pounds OC per month  
  
Applicable Compliance Method: Compliance with the above limitation shall be based upon the record keeping requirements specified in Section C.3.

- d. Emission Limitation: 0.57 tons OC per year

Applicable Compliance Method: The annual OC emission limitations from the use of cleanup materials shall be based upon record keeping requirements specified in Section C.3.

**F. Miscellaneous Requirements**

None

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

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P001 - Grit blasting operation	OAC rule 3745-31-05(A)(3)	1.64 pounds particulate emissions (PE) per hour; 7.17 tons PE/yr  Visible particulate emissions from this emission unit shall not exceed 10% opacity, as a three-minute average  Use of Best Available Control Measures (see A.2.a.)
	OAC rule 3745-17-08(A)	See A.2.b.
	OAC rule 3745-17-07(B)(1)	See A.2.c.

**2. Additional Terms and Conditions**

- 2.a The permittee shall employ the following Best Available Control Measures for this emissions unit for the purpose of ensuring compliance with the above mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to employ the following control measures to ensure compliance:
  - i. all grit blasting operations shall be conducted within an enclosure;
  - ii. baghouse shall be used as control equipment; and
  - iii. upon completion of daily grit blasting operations, the company shall clean up and

properly dispose of all grit blasting wastes to prevent the material from becoming airborne.

- 2.b Colonial Sandblasting, Inc. is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).
- 2.c This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

## B. Operational Restrictions

- 1. The maximum annual abrasive material usage in this emission unit shall not exceed 7,884 tons.

## C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for visible fugitive emissions from the grit blasting enclosure. The presence or absence of visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
- 2. The permittee shall collect and record the following information for the abrasive material usage in emissions unit P001:
  - a. the monthly abrasive material usage employed, in tons per month; and
  - b. the annual, year to date abrasive material usage employed (sum of (a.) for each calendar month to date from January to December), in tons per year.

#### D. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which visible fugitive emissions were observed that were not representative of normal operations from the grit blasting enclosure and (b) describe any corrective actions that were taken to reduce the abnormal emissions. These reports shall be submitted to the Northwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit annual deviation (excursion) reports which identify any exceedances of the 7,884 tons per year restriction of abrasive material used in the grit blasting operation. If no deviations occurred during the calendar year, the permittee shall submit an annual report which states that no deviations occurred during the calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

#### E. Testing Requirements

1. Compliance with the allowable emission limitations in this permit shall be determined in accordance with the following methods:
  - a. Emission Limitation:  
1.64 lbs PE/hr  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance by multiplying the maximum throughput of the emissions unit (1,800 lbs abrasive material/hr) by the appropriate emission factor from AP-42 Chapter 13.2.6 (9/97) (91 lbs PE/1000 lbs of abrasive material) and applying a 99% control efficiency from the baghouse.
  - b. Emission Limitation:  
7.17 tons PE/yr  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance by multiplying the restricted throughput of abrasive material (7,884 TPY) by the appropriate emission factor from AP-42 Chapter 13.2.6 (9/97) (91 lbs PE/1000 lbs of abrasive material) and applying a 99% control efficiency from the baghouse. Compliance shall also be demonstrated through the monitoring and record keeping requirements specified in Section C.2. of this permit.
  - c. Emission Limitation:  
Visible particulate emissions from this emission unit shall not exceed 10% opacity, as a three-minute average

**Colon**

**PTI A**

**Issued: 9/26/2002**

Emissions Unit ID: **P001**

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by testing in accordance with Method 9 of 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

None

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

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P002 - Sand blasting operations	OAC rule 3745-31-05(A)(3)	0.14 lbs PE/hr; 0.60 tons PE/yr  Visible particulate emissions from this emission unit shall not exceed 10% opacity, as a three-minute average  Use of Best Available Control Measures (see A.2.a.)
	OAC rule 3745-17-08(A)	See A.2.b.
	OAC rule 3745-17-07(B)(1)	See A.2.c.

**2. Additional Terms and Conditions**

- 2.a The permittee shall employ the following Best Available Control Measures for this emissions unit for the purpose of ensuring compliance with the above mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to employ the following control measures to ensure compliance:

- i. all sand blasting operations shall be conducted within an enclosure;
- ii. baghouse shall be used as control equipment; and
- iii. upon completion of daily sand blasting operations, the company shall clean up and properly dispose of all sand blasting wastes to prevent the material from becoming

airborne.

- 2.b Colonial Sandblasting, Inc. is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).
- 2.c This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

## B. Operational Restrictions

- 1. The maximum annual abrasive material usage in this emission unit shall not exceed 657 tons.

## C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for visible fugitive emissions from the grit blasting enclosure. The presence or absence of visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
- 2. The permittee shall collect and record the following information for the abrasive material usage in emissions unit P002:
  - a. the monthly abrasive material usage employed, in tons per month; and
  - b. the annual, year to date abrasive material usage employed (sum of (a.) for each calendar month to date from January to December), in tons per year.

## D. Reporting Requirements

**Colon****PTI A****Issued: 9/26/2002**Emissions Unit ID: **P002**

1. The permittee shall submit semiannual written reports which (a) identify all days during which visible fugitive emissions were observed that were not representative of normal operations from the sand blasting enclosure and (b) describe any corrective actions that were taken to reduce the abnormal emissions. These reports shall be submitted to the Northwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit annual deviation (excursion) reports which identify any exceedances of the 657 tons per year restriction of abrasive material used in the sand blasting operation. If no deviations occurred during the calendar year, the permittee shall submit an annual report which states that no deviations occurred during the calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

**E. Testing Requirements**

1. Compliance with the allowable emission limitations in this permit shall be determined in accordance with the following methods:
  - a. Emission Limitation:  
0.14 lbs PE/hr  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance by multiplying the maximum throughput of this emissions unit (150 lbs abrasive material/hr) by the appropriate emission factor from AP-42 Chapter 13.2.6 (9/97) (91 lbs PE/1000 lbs of abrasive material) and applying a 99% control efficiency from the baghouse.
  - b. Emission Limitation:  
0.60 tons PE/yr  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance by multiplying the restricted throughput of abrasive material (657 TPY) by the appropriate emission factor from AP-42 Chapter 13.2.6 (9/97) (91 lbs PE/1000 lbs of abrasive material) and applying a 99% control efficiency from the baghouse. Compliance shall also be demonstrated through the monitoring and record keeping requirements specified in Section C.2. of this permit.
  - c. Emission Limitation:  
Visible particulate emissions from this emission unit shall not exceed 10% opacity, as a three-minute average

**Colonial Sandblasting, Inc.**  
**PTI Application: 02 12022**  
**Issued**

**Facility ID: 0302000208**

Emissions Unit ID: **P002**

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by testing in accordance with Method 9 of 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

None