



State of Ohio Environmental Protection Agency

Street Address:

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

**RE: FINAL PERMIT TO INSTALL  
LICKING COUNTY  
Application No: 01-08673**

**CERTIFIED MAIL**

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

**DATE: 11/5/2002**

T H Sandblasting Inc  
Thomas Tomson  
P O Box 2314  
Heath, OH 43056

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

CDO



**Permit To Install  
Terms and Conditions**

**Issue Date: 11/5/2002  
Effective Date: 11/5/2002**

**FINAL PERMIT TO INSTALL 01-08673**

Application Number: 01-08673  
APS Premise Number: 0145010327  
Permit Fee: **\$1600**  
Name of Facility: T H Sandblasting Inc  
Person to Contact: Thomas Tomson  
Address: P O Box 2314  
Heath, OH 43056

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**3427 1/2 Ridgley Tract Rd  
Newark, Ohio**

Description of proposed emissions unit(s):  
**Blast room 2 air compressor 1 paint booth 2 and driveway and parking area.**

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 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.

**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>
PE	3.4
VOC	7.9
SO2	0.9
NOx	13.3
CO	2.8

**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>
F001 - Roadways and parking areas	OAC rule 3745-31-05(A)(3)	<p>Particulate emissions (PE) shall not exceed 0.2 ton/yr.</p> <p>Visible particulate emissions of dust shall not exceed 20% opacity as a 3-minute average, except as provided by rule.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.a through A.2.f).</p>

**2. Additional Terms and Conditions**

- 2.a The permittee shall employ best available control measures on all unpaved roadways and parking areas 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 treat the unpaved roadways with calcium chloride at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.b The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring and recordkeeping section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.c Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust

suppressants, may be controlled with the control measure specified above for the unpaved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas.

- 2.d** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.e** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05 (A)(3).

**B. Operational Restrictions**

None

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

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:

<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
All unpaved roadways and parking areas	Weekly

- 2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
- 3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA, CDO modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- 4. The permittee shall maintain records of the following information:

- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

#### **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. Emission Limitation for unpaved roadways:  
PE shall not exceed 0.2 ton per year.

Applicable Compliance Method:

Compliance shall be demonstrated by utilizing the emission factor equation for unpaved roadways (AP-42 13.2.2-4):  $E = [k (s/12)^a (W/3)^b / (M/0.2)^c]$ , multiplying it by the total vehicle miles traveled per year (VMT/yr) and dividing by 2,000 pounds per ton as follows:

Where: E = size-specific emission factor (lb/VMT)  
s = surface material silt content  
W = mean vehicle weight  
M = surface material moisture content

a = constant

b = constant

c = constant

k = constant

$$\text{TSP} - k = 10 \quad s = 4.8 \quad a = 0.8 \quad W = 16 \quad b = 0.5 \quad M = 4.0 \quad c = 0.4$$

$$10 * (4.8/12)^{0.8} * (16/3)^{0.5} / (4.0/0.2)^{0.4} = 3.35 \text{ lbs/VMT}$$

$$3.35 \text{ lbs/VMT} * 1,000 \text{ VMT/yr} / 2,000 \text{ lbs/ton} * [(100-90)/100] = 0.2 \text{ ton PE/yr}$$

2. Emission Limitation for unpaved roadways:  
Visible particulate emissions of dust shall not exceed 20% opacity as a 3-minute average

**Applicable Compliance Method:**

Compliance with the emission limitation for the paved and unpaved roadways identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

**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- Surface coating of miscellaneous metal parts with dry filtration system for control	OAC rule 3745-31-05(A)(3)	<p>Volatile organic compound (VOC) emissions shall not exceed 5.3 lbs/hr, excluding cleanup and 6.9 tons/yr, including cleanup.</p> <p>See A.2.a-c below.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(U)(2)(e)(iii).</p>
	OAC rule 3745-21-09(U)(2)(e)(ii)	Coating usage shall not exceed 10 gals/day.

2. **Additional Terms and Conditions**

- 2.a VOC content of coating shall not exceed 2.67 pounds per gallon.
- 2.b VOC content of the cleanup material shall not exceed 6.0 pounds per gallon.
- 2.c The maximum annual cleanup material usage for K002 shall not exceed 650 gallons per year.
- 2.d The 5.3 pounds per hour emissions limitation was established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop additional monitoring, record keeping and/or reporting requirements to ensure compliance with this limit.

**B. Operational Restrictions**

1. The permittee shall operate and vent emissions to the dry filtration system whenever this emissions unit is in operation.

2. The permittee shall install and maintain a stack with sufficient height to direct the emissions out of the building downwash. All air contaminant emissions from this emissions unit shall be emitted through the stack.

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

1. The permittee shall collect and record the number of gallons of each type of coating material employed on a daily basis for the purpose of complying with OAC rule 3745-21-09 (U)(2)(e)(ii).
2. The permittee shall collect and record the following information on a monthly basis for the purpose of determining annual VOC emissions:
  - a. The name and identification of each type of coating and cleanup material employed;
  - b. The VOC content of each type of coating employed (excluding water and exempt solvents), as applied, in pounds per gallon;
  - c. The VOC content of each type of cleanup material, in pounds per gallon;
  - d. The number of gallons of coating and cleanup material employed;
  - e. The number of gallons of each type of cleanup material drummed for shipment off-site; and
  - f. The total VOC emissions from all coatings and cleanup materials employed, in pounds or tons. i.e., the sum of all coatings and cleanup materials multiplied by the respective VOC contents minus the amount of cleanup material drummed for shipment off-site, in pounds or tons (number of gallons of cleanup multiplied by the respective VOC content ).

The annual emission rate shall be determined by dividing the total VOC emissions for the 12 months of the calendar year by 2,000 pounds per ton, i.e. (f) / 2,000.

3. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was not in operation.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify each day during which the coating usage exceeded ten gallons per day.

These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under Section A.

2. The permittee shall notify the Ohio EPA, CDO in writing any monthly record showing that the VOC content of any coating or cleanup material exceeds the applicable limitation. The notification shall include a copy of such record and shall be sent to CDO within 30 days after the exceedance occurs.

3. The permittee shall submit annual deviation (excursion) reports which identify all exceedances of the annual VOC emission limitation. These reports are due by January 31 of each year.
4. The permittee shall notify the CDO 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 CDO within 30 days after the event 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. Emission Limitation:  
VOC emissions shall not exceed 5.3 lbs VOC/hr, excluding cleanup.

Applicable Compliance Method:

Compliance with the short term limitation shall be demonstrated by multiplying the maximum hourly amount coating applied (2.0 gal/hr, application, 9/12/02) by the maximum VOC content of all coatings applied (2.67 lbs/gal, application, 9/12/02).

$$2.0 \text{ gal/hr} * 2.67 \text{ lbs VOC/gal} = 5.3 \text{ lbs VOC/hr}$$

- b. Emission Limitation:  
VOC emissions shall not exceed 6.9 tons/yr, including cleanup.

Applicable Compliance Method:

The record keeping requirements in Section C.1 of this permit shall be used to determine compliance with the above limitation.

2. The VOC content of the coatings and cleanup materials shall be determined according to OAC rule 3745-21-10(B). USEPA Method 24 shall be used to determine the VOC content for 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 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 or 24 A.

**F. Miscellaneous Requirements**

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and

**T H Sandblasting Inc**

**PTI Application: 01-08673**

**Issued: 11/5/2002**

**Facility ID: 0145010327**

**Emissions Unit ID: K002**

obtain a new or modified permit to install (PTI) prior to making a "modification" as desired by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new PTI.

**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 - Blast Room 1 - Black beauty blasting with fabric filter	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 0.1 lb/hr and 0.5 ton/yr.  See Part II.B.1-2 below.
	OAC rule 3745-17-07(A)	Visible particulate emissions from the fabric filter stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

2. **Additional Terms and Conditions**

- 2.a The 0.1 pound per hour and 0.5 ton per year particulate emission limitations were established for PTI purposes to reflect the potential to emit for this emissions unit as vented to the fabric filter. Therefore, the parametric monitoring of the fabric filter as established in the following terms and conditions will ensure compliance with these limits.

**B. Operational Restrictions**

1. The permittee shall vent all emissions to and shall operate the fabric filter at all times while operating this emissions unit.
2. This emissions unit shall be totally enclosed and operated in such a manner as to prevent emissions escaping from any egress points other than the fabric filter stack.

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

1. The permittee shall perform daily checks, during operation, for visible emissions from the fabric filter serving this emissions unit. The presence or absence of any visible emissions from the fabric filter shall be noted in an operations log. If visible emissions from the fabric filter are observed, the permittee shall also note the following in the operations log:
  - a. whether the emissions are representative of normal operations;

- b. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - c. the total duration of any visible emission incident; and
  - d. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall perform daily checks to see if the emissions unit is totally enclosed during operation. In the event that this emissions unit is not totally enclosed, the emissions unit shall be shut down immediately and the permittee shall note the malfunction in accordance with OAC rule 3745-15-06. The permittee shall not start up the emissions unit again until the malfunction is repaired.
3. This emissions unit shall shut down in the event of any visible emissions occurrence at any egress point other than that of the control equipment. In addition, the emissions unit shall shut down if the visible emissions are emanating from the fabric filter and exceed 20% opacity as a 6-minute average.

**D. Reporting Requirements**

1. The permittee shall submit written reports which (a) identify all days during which any visible particulate emissions were observed, including those from the fabric filter serving this emissions unit; (b) describe any corrective actions taken to eliminate the visible particulate emissions; (c) identify all times during which the emissions unit was in operation and the emissions unit was not totally enclosed. These reports shall be submitted to CDO within 30 days of an abnormal visible emission observation or operation of this emissions unit with the door open.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emissions Limitation-  
20% opacity, as a 6-minute average  
  
Applicable Compliance Method-  
Compliance shall be determined through visible emission observations in accordance with 40 CFR Part 60, Appendix A, Method 9.
  - b. Emissions Limitations-  
PE shall not exceed 0.1 lbs/hr and 0.5 ton/yr.

**T H Sandblasting Inc**

**PTI Application: 01-08673**

**Issued: 11/5/2002**

**Facility ID: 0145010327**

**Emissions Unit ID: P001**

**Applicable Compliance Method-**

Compliance with the short term emission limitation shall be demonstrated by multiplying the maximum abrasive use of 150 lbs sand/hr (PTI application, 2/01) by the emission factor of 0.00069 lbs PE/lb abrasive (AP-42, 13.2.6-1, 9/97).

Compliance with the long term emission limitation shall be demonstrated by multiplying the annual amount of abrasive used by the emission factor of 0.00069 lbs PE/lb abrasive (AP-42, 13.2.6-1, 9/97) and dividing by 2000 lbs/ ton.

**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 - Blast Room 2 - Glass bead blasting of soft metal with fabric filter	OAC rule 3745-31-05(A)(3)  OAC rule 3745-17-07(B)	Particulate emissions (PE) shall not exceed 0.41 lb/hr and 1.8 tons/yr.  See Part II.B.1-2 below.  Visible particulate emissions from the fabric filter stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

2. **Additional Terms and Conditions**

- 2.a The 0.41 pound per hour and 1.8 tons per year PE limitations were established for PTI purposes to reflect the potential to emit for this emissions unit as vented to the fabric filter. Therefore, the parametric monitoring of the fabric filter as established in the following terms and conditions will ensure compliance with these limits.

**B. Operational Restrictions**

1. The permittee shall vent all emissions to and shall operate the fabric filter at all times while operating this emissions unit.
2. This emissions unit shall be totally enclosed and operated in such a manner as to prevent emissions escaping from any egress points other than the fabric filter stack.

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

1. The permittee shall perform daily checks, during operation, for visible emissions from the fabric filter serving this emissions unit. The presence or absence of any visible emissions from the fabric filter shall be noted in an operations log. If visible emissions from the fabric filter are observed, the permittee shall also note the following in the operations log:
  - a. whether the emissions are representative of normal operations;

- b. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - c. the total duration of any visible emission incident; and
  - d. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall perform daily checks to see if the emissions unit is totally enclosed during operation. In the event that this emissions unit is not totally enclosed, the emissions unit shall be shut down immediately and the permittee shall note the malfunction in accordance with OAC rule 3745-15-06. The permittee shall not start up the emissions unit again until the malfunction is repaired.
3. This emissions unit shall shut down in the event of any visible emissions occurrence at any egress point other than that of the control equipment. In addition, the emissions unit shall shut down if the visible emissions are emanating from the fabric filter and exceed 20% opacity as a 6-minute average.

**D. Reporting Requirements**

1. The permittee shall submit written reports which (a) identify all days during which any visible particulate emissions were observed, including those from the fabric filter serving this emissions unit; (b) describe any corrective actions taken to eliminate the visible particulate emissions; (c) identify all times during which the emissions unit was in operation and the emissions unit was not totally enclosed. These reports shall be submitted to CDO within 30 days of an abnormal visible emission observation or operation of this emissions unit with the door open.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emissions Limitation-  
20% opacity, as a 6-minute average  
  
Applicable Compliance Method-  
Compliance shall be determined through visible emission observations in accordance with 40 CFR Part 60, Appendix A, Method 9.
  - b. Emissions Limitations-  
PE shall not exceed 0.41 lbs/hr and 1.8 tons/yr.

Applicable Compliance Method-

Compliance with the short term emission limitation shall be demonstrated by multiplying the maximum abrasive use of 600 lbs sand/hr (PTI application, 2/01) by the emission factor of 0.00069 lbs PE/lb abrasive (AP-42, 13.2.6-1, 9/97).

Compliance with the long term emission limitation shall be demonstrated by multiplying the annual amount of abrasive used by the emission factor of 0.00069 lbs PE/lb abrasive (AP-42, 13.2.6-1, 9/97) and dividing by 2000 lbs/ ton.

**F. Miscellaneous Requirements**

None

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

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P003 - Sullair 825 ACFM (225 HP) diesel air compressor	OAC rule 3745-31-05 (A)(3)	Particulate emissions (PE) shall not exceed 0.21 lb/hr and 0.9 ton/yr.  Sulfur dioxide (SO <sub>2</sub> ) emissions shall not exceed 0.20 lb/hr and 0.9 ton/yr.  Nitrogen oxide (NO <sub>x</sub> ) emissions shall not exceed 3.0 lbs/hr and 13.1 tons/yr.  Volatile organic compound (VOC) emissions shall not exceed 0.24 lb/hr and 1.0 tons/yr.  Carbon monoxide (CO) emissions shall not exceed 0.65 lb/hr and 2.8 tons/yr.  The requirements of this rule also include compliance with the requirements of 3745-17-07(A) and 3745-17-11 (B)(5)(a).
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11 (B)(5)(a)	The particulate emissions from the engine's exhaust shall not exceed 0.31 pound per million Btu of actual heat input.
	OAC rule 3745-18-06	The emission limitation specified in this rule is exempt per 3745-18-06(B).

**2. Additional Terms and Conditions**

**2.a** None

**B. Operational Restrictions**

1. The permittee shall combust only number two fuel oil that contains equal to or less than 0.5 percent, by weight, sulfur.
2. The maximum 12-month period fuel usage for this emission unit shall not exceed 43,800 gallons for any rolling, 12-month period.
3. The permittee has existing records of the last 12 months of fuel usage for this emissions unit; therefore, the first year of monthly fuel usage limitations are not necessary.

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

1. The permittee shall maintain records of each fuel shipment that indicate:
  - a. the oil supplier's analysis of percent sulfur content; and
  - b. the number of gallons in each shipment.
2. For each day during which the permittee burns a fuel other than no. 2 fuel oil, the permittee shall maintain a record indicating the type and the quantity of fuel combusted in this emissions unit.
3. The permittee shall maintain monthly records of the total monthly gallons and the rolling, 12-month period of total gallons of fuel used in this emissions unit.
4. The permittee shall maintain daily records of the total hours of operation for this emissions unit.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than number 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify the Ohio EPA, Central District Office, in writing, of any record which shows an exceedance of the sulfur content limitation specified in section A.1. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Central District Office within 30 days after the deviation occurs.

**E. Testing Requirements**

1. 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 methods:

- a. Emission limitation:  
PE shall not exceed 0.21 lb/hr and 0.9 ton/yr.

Applicable compliance method:

Compliance with the short-term emission limitation shall be determined by multiplying the maximum gallons per hour of fuel used (5.0 gals/hr, application, 9/12/02) by the density of diesel fuel (7.05 lbs/gal, AP-42, Table 3.3-1, 10/96) and by the British Thermal Units per pound of diesel fuel (19,300 Btus/lb, AP-42, Table 3.3-1, 10/96). Furthermore, multiply this maximum rated capacity of the diesel engine (MMBtu/hr) by the emission factor found in AP-42, Table 3.3-1, 10/96. Compliance with the annual emission limitation shall be determined by multiplying the pound per hour value by 8,760 hours per year and dividing by 2,000 pounds per ton.

- b. Emission limitation:  
SO<sub>2</sub> emissions shall not exceed 0.20 lb/hr and 0.9 ton/yr.

Applicable compliance method:

Compliance with the short-term emission limitation shall be determined by multiplying the maximum gallons per hour of fuel used (5.0 gals/hr, application, 9/12/02) by the density of diesel fuel (7.05 lbs/gal, AP-42, Table 3.3-1, 10/96) and by the British Thermal Units per pound of diesel fuel (19,300 Btus/lb, AP-42, Table 3.3-1, 10/96). Furthermore, multiply this maximum rated capacity of the diesel engine (MMBtu/hr) by the emission factor found in AP-42, Table 3.3-1, 10/96. Compliance with the annual emission limitation shall be determined by multiplying the pound per hour value by 8,760 hours per year and dividing by 2,000 pounds per ton.

- c. Emission limitation:  
NO<sub>x</sub> emissions shall not exceed 3.0 lbs/hr and 13.1 tons/yr.

Applicable compliance method:

Compliance with the short-term emission limitation shall be determined by multiplying the maximum gallons per hour of fuel used (5.0 gals/hr, application, 9/12/02) by the density of diesel fuel (7.05 lbs/gal, AP-42, Table 3.3-1, 10/96) and by the British Thermal Units per pound of diesel fuel (19,300 Btus/lb, AP-42, Table 3.3-1, 10/96). Furthermore, multiply this maximum rated capacity of the diesel engine (MMBtu/hr) by the emission factor found in AP-42, Table 3.3-1, 10/96. Compliance with the annual emission limitation shall be determined by multiplying the pound per hour value by 8,760 hours per year and dividing by 2,000 pounds per ton.

- d. Emission limitation:  
VOC emissions shall not exceed 0.24 lb/hr and 1.0 tons/yr.

Applicable compliance method:

Compliance with the short-term emission limitation shall be determined by multiplying the maximum gallons per hour of fuel used (5.0 gals/hr, application, 9/12/02) by the density of diesel fuel (7.05 lbs/gal, AP-42, Table 3.3-1, 10/96) and by the British Thermal Units per pound of diesel fuel (19,300 Btus/lb, AP-42, Table 3.3-1, 10/96). Furthermore, multiply this maximum rated capacity of the diesel engine (MMBtu/hr) by the emission factor found in AP-42, Table 3.3-1, 10/96. Compliance with the annual emission limitation shall be determined by multiplying the pound per hour value by 8,760 hours per year and dividing by 2,000 pounds per ton.

- e. Emission limitation:  
CO emissions shall not exceed 0.65 lb/hr and 2.8 tons/yr.

Applicable compliance method:

Compliance with the short-term emission limitation shall be determined by multiplying the maximum gallons per hour of fuel used (5.0 gals/hr, application, 9/12/02) by the density of diesel fuel (7.05 lbs/gal, AP-42, Table 3.3-1, 10/96) and by the British Thermal Units per pound of diesel fuel (19,300 Btus/lb, AP-42, Table 3.3-1, 10/96). Furthermore, multiply this maximum rated capacity of the diesel engine (MMBtu/hr) by the emission factor found in AP-42, Table 3.3-1, 10/96. Compliance with the annual emission limitation shall be determined by multiplying the pound per hour value by 8,760 hours per year and dividing by 2,000 pounds per ton.

**F. Miscellaneous Requirements**

None