



State of Ohio Environmental Protection Agency

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P.O. Box 1049  
Columbus, OH 43216-1049

01/31/01

**CERTIFIED MAIL**

**RE: Draft Title V Chapter 3745-77 permit**

13-18-12-1632  
S. K. Wellman Ltd., Inc.  
C. Kent Yeager  
5372 West 130th Street  
Brook Park, OH 44142

Dear C. Kent Yeager:

You are hereby notified that the Ohio Environmental Protection Agency has prepared the enclosed draft of the Title V permit for the facility referenced above. The purpose of this draft is to solicit public comments. A public notice concerning the draft will appear in the Ohio EPA Weekly Review and the major newspaper in the county where the facility is located. Comments and/or a request for a public hearing from the public and any affected parties will be accepted by Cleveland Division of Air Pollution Control within 30 days of the date of publication in the newspaper. You will be notified in writing if a public hearing is scheduled.

A decision on processing the Title V permit will be made after consideration of written public comments and oral testimony (if a public hearing is conducted). After the comment period, you will be provided with a Preliminary Proposed Title V permit and an opportunity to comment prior to the Proposed Title V permit submittal to USEPA.

**If you have any questions or comments concerning this draft Title V permit, please contact Cleveland Division of Air Pollution Control.**

Very truly yours,

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

cc: USEPA  
Jim Orlemann, DAPC Engineering  
Michael Ahern, DAPC PMU  
Cleveland Division of Air Pollution Control  
Pennsylvania



## Ohio EPA

State of Ohio Environmental Protection Agency

### DRAFT TITLE V PERMIT

Issue Date: 01/31/01

Effective Date: To be entered upon final issuance

Expiration Date: To be entered upon final issuance

This document constitutes issuance to:

S. K. Wellman Ltd., Inc.  
5372 West 130th Street  
Brook Park, OH 44142

of a Title V permit for Facility ID: 13-18-12-1632

Emissions Unit ID (Company ID)/

Emissions Unit Activity Description:

K004 (Roller Coater & B-Stage Oven Line)

A Roller Coater and B-Stage Continuous Oven Line; Metal Discs are Roller Coated with a Phenolic Resin and Continuously Conveyed Through a Drying Oven

L002 (Conveyorized Vapor Degreaser)

Detrex Conveyorized Vapor Degreaser Model #VM 325 1S using Perchloroethylene

P002 (Powder Mixing Line)

A Powder Mixing Line Consisting of Various Blenders for Mixing Powder Metals

P003 (Button Brazing Line)

A Gas Fired, 18 Inch Wide Continuous Brazing Furnace Using a Dissociated Ammonia Atmosphere to Produce Heat Treated Powdered Metal Parts

P004 (Tool Room Metal Working Equipment)

Various Metal Working Equipment such as Bandsaws, Lathes and Grinders used for Tool Making

P006 (Nitriding Furnace Line)

Ammonia Base Electric Furnaces used for Nitriding Splines on Metal Discs

P007 (Commercial Finishing Line)

Various Sanders, Grinders and Groovers used for Machining Sintered Metallic Friction Materials

P008 (Commercial Molding Line)

Various Presses for Molding Powdered Metal Parts W/ Portable Roller Coaters for Applying Graphite

P012 (Button Sintering Line )

A Gas Fired, 24 Inch Wide Continuous Sintering Furnace using an Exalene Gas Atmosphere to Produce Clutch Segments

P013 (HDT Manufacturing Line)

HDT (Graphitic) Friction Disc Manufacturing Line Consisting of Various Mixing, Molding, Sanding and Grinding Equipment

P014 (Abrasive Belt Sander)

AEM Horizontal Belt Sanders for Sanding Metal Discs to a Specified Surface Finish

P015 (Grit Blast Machine)  
Grit Blast Machine Using Aluminum Oxide as Blasting Medium

P016 (Button Sintering and Brazing Line)  
Electrically Heated Continuous Belt Furnaces Using Exothermic  
Gas Atmosphere For Sintering and Brazing Metallic Friction Materials

P017 (Metal Finishing Line)  
Metal Finishing Line Using Speed Sanders For Sanding Metal Discs to Specified Micro Finish

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Cleveland, OH 44114  
Cleveland Division of Air Pollution Control  
1925 St. Clair  
(216) 664-2324

OHIO ENVIRONMENTAL PROTECTION AGENCY

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Christopher Jones  
Director

## PART I - GENERAL TERMS AND CONDITIONS

### A. State and Federally Enforceable Section

#### 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 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 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 promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. 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. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.) See B.8 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. These semi-

annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting requirements. 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 submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

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.

## **8. Marketable Permit Programs**

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

## **9. Reasonably Anticipated Operating Scenarios**

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

## **10. Reopening for Cause**

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

## **11. 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.

## **12. Compliance Requirements**

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V 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 paragraph (E) of OAC rule 3745-77-03.
  - 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.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the appropriate Ohio EPA District Office or local air agency in the following manner and with the following content:
- i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
  - ii. Compliance certifications shall include the following:
    - (a) An identification of each term or condition of this permit that is the basis of the certification.
    - (b) The permittee's current compliance status.
    - (c) Whether compliance was continuous or intermittent.
    - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
    - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
  - iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

### **13. Permit Shield**

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC

rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

#### **14. Operational Flexibility**

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

#### **15. Emergencies**

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

#### **16. Off Permit Changes**

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;
- b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change;
- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);

- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

## **17. Compliance Method Requirements**

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

## **18. Insignificant Activity**

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.

## **B. State Only Enforceable Section**

### **1. Permit to Install Requirement**

Prior to the “installation” or “modification” of any “air contaminant source,” as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

### **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. 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.

## **Part II - Specific Facility Terms and Conditions**

### **A. State and Federally Enforceable Section**

**None**

### **B. State Only Enforceable Section**

1. There are no insignificant emissions units at this facility.

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Roller Coater & B-Stage Oven Line (K004)

**Activity Description:** A Roller Coater and B-Stage Continuous Oven Line; Metal Discs are Roller Coated with a Phenolic Resin and Continuously Conveyed Through a Drying Oven

#### A. State and Federally Enforceable Section

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
roller coater and B-stage oven line (for coating metal discs)	OAC rule 3745-21-09(U)(1)(a)  OAC rule 3745-31-05(A)(3) (PTI #13-3075)	4.3 lbs of VOC per gallon, excluding water and exempt solvents  See A.II.1.  14.4 tons VOC/year  The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(U)(1)(a).

##### 2. Additional Terms and Conditions

- 2.a Only VOC-compliant coatings are employed in this emissions unit.

##### II. Operational Restrictions

1. The maximum daily coating usage for this emissions unit shall not exceed 10 gallons.

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

1. The permittee shall collect and record the following information each day for the coating line:
  - a. The name and identification number of each coating, as applied.
  - b. The VOC content of each coating (excluding water and exempt solvents), as applied.
  - c. The volume, in gallons, of each coating employed.
  - d. The total volume, in gallons, of all of the coatings employed.

### **III. Monitoring and/or Record Keeping Requirements (continued)**

2. The permittee shall collect and record the following information for the purpose of determining annual VOC emissions:
  - a. The name and identification of each cleanup material employed.
  - b. The VOC content of each cleanup material, in pounds per gallon.
  - c. The number of gallons of each cleanup material employed.
  - d. The total VOC emissions from all coatings and cleanup materials employed, in pounds or tons.

### **IV. Reporting Requirements**

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) 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 Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.
2. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing the use of non-compliant coatings. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.
3. The permittee shall also submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

### **V. Testing Requirements**

1. Emission Limitation:  
4.3 pounds of VOC per gallon of coating, excluding water and exempt solvents  
  
Applicable Compliance Method:  
Compliance shall be based upon the record keeping requirements specified in Section A.III. USEPA Method 24 shall be used to determine the VOC content of the coatings.
2. Emission Limitation:  
14.4 tons VOC/year  
  
Applicable Compliance Method:  
Compliance shall be based on the records required by Section A.III.2.

### **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

**None**

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Conveyorized Vapor Degreaser (L002)

**Activity Description:** Detrex Conveyorized Vapor Degreaser using Perchloroethylene

#### A. State and Federally Enforceable Section

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Detrex model #VM 325-2S-S in-line conveyorized vapor degreaser	40 CFR 63, Subpart T	idling emission limit of 0.021 pound per hour per square foot
	OAC rule 3745-21-09(O)(6)(b)	See Additional Terms and Conditions 2.a through 2.d. This emissions unit is exempt from the requirements of OAC rule 3745-21-09(O)(2) through (O)(5).
	OAC rule 3745-31-05(A)(3) (PTI #13-3589)	9.66 lbs OC/hr See Additional Term and Condition 2.d.
		42.31 tons OC/year  The requirements of this rule also include compliance with the requirements of 40 CFR 63, Subpart T.

##### 2. Additional Terms and Conditions

- 2.a The permittee shall demonstrate that the solvent cleaning machine can achieve and maintain an idling emission limit of 0.10 kilograms per hour per square meter (0.021 pound per hour per square foot) of solvent/air interface area as determined using the procedures in 40 CFR 63.465 (a) and 40 CFR 63, Appendix A.
- 2.b The permittee shall perform the following activities:
  - i. Conduct an initial performance test or submit the information specified in Section A.V.2.a within 6 months after issuance of this permit in order to demonstrate compliance with the idling emission limit and establish the parameters that will be monitored to demonstrate compliance.
  - ii. Conduct the periodic monitoring of the parameters used to demonstrate compliance as described in the "Monitoring and/or Recordkeeping Requirements" section of this permit.
  - iii. Operate the solvent cleaning machine within parameters identified in the initial performance test.

## 2. Additional Terms and Conditions (continued)

- 2.c** The permittee shall ensure that the solvent cleaning machine conforms to the following design requirements:
- i. An idling and downtime mode cover that shall be in place during the idling mode, and during the downtime mode unless either the solvent has been removed from the machine or maintenance or monitoring is been performed that requires the cover to no be in place. The cover must be able to be readily opened or closed, completely cover the cleaning machine openings when in place, and be free of cracks, holed and other defects.
  - ii. The solvent cleaning machine shall have a freeboard ratio of 0.75 or greater.
  - iii. The solvent cleaning machine shall have an automated parts handling system capable of moving parts or parts baskets at a speed of 3.4 meters per minute (11 feet per minute) or less from the initial loading of parts through removal of cleaned parts.
  - iv. The solvent cleaning machine shall be equipped with a vapor level control device that shuts off the sump heat if the sump liquid solvent level drops to the sump heater coils.
  - v. The solvent cleaning machine shall be equipped with a vapor level control device that shuts off sump heat if the vapor level in the vapor cleaning machine rises above the height of the primary condenser.
  - vi. The solvent cleaning machine shall have a primary condenser.
- 2.d** The lbs OC/hr limit was established for permit to install (PTI) purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop monitoring, record keeping, and/or reporting requirements to ensure compliance with this limit.

## II. Operational Restrictions

- 1.** The permittee shall ensure that the solvent cleaning machine conforms to the following design requirements:
- 1.a** Control air disturbances across the solvent cleaning machine opening(s) by incorporating the following control equipment or techniques:
- i. The permittee shall employ a reduced room draft that ensures that the flow or movement of air across the top of the freeboard area of the solvent cleaning machine or within the solvent cleaning machine enclosure does not exceed 15.2 meters per minute (50 feet per minute) at any time as measured using the procedures described in the "Monitoring and/or Recordkeeping Requirements" section of this permit. The permittee shall also establish and maintain the operating conditions under which the wind speed was demonstrated to be 15.2 meters per minute (50 feet per minute) or less as described in the "Monitoring and/or Recordkeeping Requirements" section of this permit.
- 1.b** Any spraying operations shall be done within the vapor zone or within a section of the solvent cleaning machine that is not directly exposed to the ambient air (i.e., a baffled or enclosed area of the solvent cleaning machine).
- 1.c** Parts shall be oriented so that the solvent drains from them freely. Parts having cavities or blind holes must be tipped or rotated before being removed from the solvent cleaning machine unless an equally effective approach has been approved by the Director (the appropriate Ohio EPA District Office or local air agency).
- 1.d** Parts baskets or parts shall not be removed from the solvent cleaning machine until dripping has stopped.
- 1.e** During start-up of the solvent cleaning machine, the primary condensers shall be turned on before the sump heater.
- 1.f** During shutdown of the solvent cleaning machine, the sump heater shall be turned off and the solvent vapor layer allowed to collapse before the primary condenser is turned off.

## II. Operational Restrictions (continued)

- 1.g** When solvent is added or drained from the solvent cleaning machine, the solvent shall be transferred using threaded or other leakproof couplings and the end of the pipe in the solvent sump shall be located beneath the liquid solvent surface.
- 1.h** The solvent cleaning machine and its associated controls shall be maintained as recommended by the manufacturers of the equipment or using alternative maintenance practices that have been demonstrated to the satisfaction of the Director (the appropriate Ohio EPA District Office or local air agency) to achieve the same or better results as those recommended by the manufacturer.
- 1.i** Each operator of the solvent cleaning machine shall complete and pass the applicable sections of the test of solvent cleaning operating procedures in 40 CFR Part 63, Appendix B, if requested during an inspection by the Director (the appropriate Ohio EPA District Office or local air agency).
- 1.j** Waste solvent, still bottoms, and sump bottoms shall be collected and stored in closed containers. The closed containers may contain a device that would allow pressure relief, but must not allow liquid solvent to drain from the container.
- 1.k** Sponges, fabric, wood, and paper products shall not be cleaned.
- 1.l** The permittee shall ensure that the chilled air blanket temperature (in degrees Fahrenheit), measured at the center of the air blanket, is no greater than 30 percent of the solvent's boiling point.
- 1.m** The permittee shall comply with the following requirements for the idling-mode cover:
  - i. Ensure that the cover is in place whenever parts are not in the solvent cleaning machine and completely covers the cleaning machine openings when in place.
  - ii. Ensure that the working-mode cover is maintained free of cracks, holes, and other defects.
- 1.n** The permittee shall determine the appropriate dwell time for each type of part or parts basket, or determine the maximum dwell time using the most complex part type or parts basket, as described below:
  - i. Determine the amount of time for the part or parts basket to cease dripping once placed in the vapor zone. The part or parts basket used for this determination must be at room temperature before being placed in the vapor zone.
  - ii. The proper dwell time for parts to remain in the freeboard area above the vapor zone is no less than 35 percent of the time determined in previous paragraph.

## III. Monitoring and/or Record Keeping Requirements

- 1.** The permittee shall monitor the hoist speed as described in A.III.1.a - A.III.1.d below:
  - 1.a** The permittee shall determine the hoist speed by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes (meters per minute).
  - 1.b** The permittee shall conduct monthly monitoring of the hoist speed. If after the first year, no exceedances of the hoist speed are measured, the permittee may begin monitoring the hoist speed quarterly.
  - 1.c** If an exceedance of the hoist speed occurs during quarterly monitoring, the permittee shall return to a monthly monitoring frequency until another year of compliance without an exceedance is demonstrated.
  - 1.d** If the permittee can demonstrate to the satisfaction of the Director (the appropriate Ohio EPA District Office or local air agency) in the initial compliance report that the hoist speed cannot exceed a speed of 3.4 meters per minute (11 feet per minute), the required monitoring frequency is quarterly, including during the first year of compliance.
  - 1.e** The permittee shall conduct monitoring for the freeboard refrigeration device by using a thermometer or thermocouple to measure the temperature at the center of the air blanket during the idling mode and record the results on a weekly basis.

### **III. Monitoring and/or Record Keeping Requirements (continued)**

- 1.f** The permittee shall conduct a visual inspection to determine if the cover is opening and closing properly, completely covers the cleaning machine openings when closed, and is free of cracks, holes, and other defects and record the results on a monthly basis.
- 1.g** The permittee shall determine the actual dwell time by measuring the period of time that parts are held within the freeboard area of the solvent cleaning machine after cleaning.
- 2.** The permittee shall maintain the following records in written or electronic form for the lifetime of the solvent cleaning machine:
  - 2.a** Owner's manuals, or if not available, written maintenance and operating procedures for the solvent cleaning machine and control equipment.
  - 2.b** The date of installation for the solvent cleaning machine and all of its control devices. If the exact date for the installation is not known, a letter certifying that the cleaning machine and its control devices were installed prior to, or on, November 29, 1993, or after November 29, 1993, may be substituted.
  - 2.c** Records of the halogenated HAP solvent content for the solvent used in the solvent cleaning machine.
  - 2.d** Records of the idling emission rate test (including the idling emission rate and values of the monitoring parameters measured during the test) and the tests required as outlined in the "Testing Requirements" section of this permit to determine an appropriate dwell time for each part or parts basket.
  - 2.e** Each owner or operator of an in-line solvent cleaning machine complying with the idling emission limits shall maintain records of the initial performance test, including the idling emission rate and values of the monitoring parameters measured during the test.
- 3.** The permittee shall maintain the following records in written or electronic form for a period of five years for the solvent cleaning machine:
  - 3.a** The results of control device monitoring required in this section of the permit.
  - 3.b** Information on the actions taken to comply with 40 CFR 63.463 (e) and (f), including records of written or verbal orders for replacement parts, a description of the repair made, and additional monitoring conducted to demonstrate that monitored parameters have returned to acceptable levels.
- 4.** The permittee shall maintain records of the total annual liquid volume of cleaning solvent employed each year (gallons) and the total annual liquid volume of cleaning solvent sent off site as waste (gallons).

### **IV. Reporting Requirements**

- 1.** The permittee shall submit an exceedance report on a semiannual basis. If the appropriate dwell time for each type part or parts basket or the maximum dwell time was not determined and if after cleaning, each part was not held in the solvent cleaning machine freeboard area above the vapor zone for the proper or the maximum dwell time for that particular part or parts basket, the permittee shall begin to submit a quarterly report until such time that the permittee requests and receives approval of a less frequent reporting frequency from the Director (the appropriate Ohio EPA District Office or local air agency). The permittee may receive approval of less frequent reporting if following conditions are met: (1) The emissions unit has demonstrated a full year of compliance without an exceedance, (2) the permittee continues to comply with all relevant recordkeeping and monitoring requirements specified in 40 CFR 63.1, General Provisions, and (3) the Director (the appropriate Ohio EPA District Office or local air agency) does not object to a reduced frequency of reporting for the affected emissions unit as provided in paragraph (e)(3)(iii) of Subpart A, 40 CFR 63.1, General Provisions. Each exceedance report shall be delivered or post marked by the 30th day following the reporting period. Each exceedance report shall contain the following:
  - 1.a** The reason and a description of the exceedance and action(s) taken to comply with 40 CFR 63.463 (e) and (f) including written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to acceptable levels.
  - 1.b** If no exceedance has occurred, a statement to that effect shall be submitted.

#### **IV. Reporting Requirements (continued)**

- 2.** The permittee shall submit an annual report by January 31 of each year for the preceding year. Each annual report shall contain the following:
  - a. A signed statement from the facility owner or their designee stating that, "All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required pursuant to 40 CFR 60.463(d)(10)."
  - b. An estimate of solvent consumption during the reporting period and the annual total OC emissions as calculated according to the "Testing Requirements" section of this permit.

#### **V. Testing Requirements**

- 1.** The permittee shall determine the appropriate dwell time for each part or parts basket using the following procedures:
  - 1.a** Determine the amount of time for the part or parts basket to cease dripping once placed in the vapor zone. The part or parts basket used for this determination must be at room temperature before being placed in the vapor zone.
  - 1.b** The proper dwell time for parts to remain in the freeboard area above the vapor zone is no less than 35 percent of the time determined in paragraph (1) (a) of this section.
- 2.** The permittee shall submit a test report for tests of idling emissions meeting the specifications in Method 307 of 40 CFR Part 63, Appendix A. This report shall comply with the following requirements:
  - 2.a** The test must be conducted on the same specific model solvent cleaning machine used at the facility. The test can be done by the permittee of the affected machine or can be supplied by the vendor of that solvent cleaning machine or a third party. If a solvent cleaning machine vendor or a third party test report is used to demonstrate compliance, the following requirements shall be met:
    - i. The report shall include the following for the solvent cleaning machine tested: name of person(s) or company that performed the test, model name, the date the solvent cleaning machine ne was tested, serial number and a diagram of the solvent cleaning machine tested.
    - ii. The permittee shall comply with the following requirements:
      - (a) Submit a statement by the solvent cleaning machine vendor that the unit tested is the same as the unit the report is being submitted for.
      - (b) Demonstrate to the satisfaction of the Director (the appropriate Ohio EPA District Office or local air agency) that the perchloroethylene emissions from the solvent cleaning machine for which the test report is being submitted are equal to or less than the perchloroethylene emissions from the solvent cleaning machine in the vendor test report.
  - 2.b** The report must clearly state the monitoring parameters, monitoring frequency and the delineation of exceedances for each parameter.
- 3.** The permittee shall determine the facility's potential to emit (PTE) from all solvent cleaning operations. A facility's total PTE is the sum of the HAP emissions from all solvent cleaning operations plus all HAP emissions from other emissions units from within the facility. The potential to emit shall be determined in accordance with the following procedures:

## V. Testing Requirements (continued)

- 3.a** Compliance with the emission limitation(s) of these terms and conditions shall be determined in accordance with the following equation:

$$PTE_i = H_i \times W_i \times SAI_i$$

Where:

$PTE_i$  = the potential to emit for the solvent cleaning machine  $i$  (kilograms solvent per year).

$H_i$  = hours of operation for solvent cleaning machine  $i$  (hours per year).

= 8760 hours per year, unless otherwise restricted by a federally enforceable requirement.

$W_i$  = the working mode uncontrolled emission rate (kilograms per square meter per hour).

= 1.12 kilograms per square meter per hour for in-line cleaning machines.

$SAI_i$  = solvent/air interface area of solvent cleaning machine  $i$  (square meters). 40 CFR Part 63.461 defines the solvent/air interface area for those machines that have a solvent/air interface. Cleaning machines that do not have a solvent area interface shall calculate a solvent/air interface area using the procedure in paragraph (b) below.

- 3.b** Sum the  $PTE_i$  for all solvent cleaning operations to obtain the total potential to emit for solvent cleaning operations at the facility.

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

Emission Limitation:

9.66 tons/year OC emissions

Applicable Compliance Method:

To determine the actual organic compound emission rate, the following equation shall be used:

$$E = (L_s - L_w) \times D / 2000$$

$E$  = organic compound emissions rate (tons/year)

$L_s$  = liquid volume of cleaning solvent employed each year (gallons)

$L_w$  = liquid volume of cleaning solvent sent off site as waste (gallons)

$D$  = density of cleaning solvent (pounds/gallon)

If more than one type of cleaning solvent is employed, the above equation shall be used for each cleaning solvent. The total annual organic compound emission rate shall be determined by the summation of the annual organic compound emission rates for all cleaning solvents.

## VI. Miscellaneous Requirements

**None**

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

**None**

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

## Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Powder Mixing Line (P002)

**Activity Description:** A Powder Mixing Line Consisting of Various Blenders for Mixing Powder Metals

### A. State and Federally Enforceable Section

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
metal powders mixing line with Wheelabrator baghouse #3	OAC rule 3745-17-11(B)  OAC rule 3745-17-07(A)	Particulate emissions (PE) shall not exceed 2.31 pounds per hour.  20% opacity as a six-minute average, except as provided by rule

#### 2. Additional Terms and Conditions

- 2.a A regular program of inspection and maintenance shall be performed on the baghouse and its associated ductwork and blower.
- 2.b An adequate number of replacement bags (at least 10%) shall be kept on the premises.
- 2.c Material collected by the baghouse shall be handled in such a way there shall be no emission of fugitive dust. Material spilled from the baghouse hoppers or from screw conveyor(s) shall be cleaned up immediately.

#### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 3 to 7 inches of water column while the emissions unit is in operation.

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

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

## V. Testing Requirements

1. Emission Limitation:  
20% opacity, as a six-minute average

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

2. Emission Limitation:  
2.31 pounds PE per hour

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.

The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Methods 1- 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

## VI. Miscellaneous Requirements

**None**

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

**None**

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** 18" Sintering Furnace #6 (P003)  
**Activity Description:** 18" Sintering Furnace #6

#### A. State and Federally Enforceable Section

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

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
natural gas-fired furnace #6 controlled with a venturi scrubber and a packed tower scrubber operating in series	OAC rule 3745-31-05(A)(3) (PTI #13-2664a)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11.  5% opacity as a six-minute average  No objectionable odors
	OAC rule 3745-17-11(B)	Particulate emissions (PE) shall not exceed 0.551 lb/hr.
	OAC rule 3745-17-07(A)	The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

##### 2. Additional Terms and Conditions

None

##### II. Operational Restrictions

- The permittee shall burn only natural gas in this emission unit.
- The pressure drop across the venturi scrubber shall be maintained within the range 20-25 inches of water while the emissions unit is in operation.
- The pressure drop across the packed tower scrubber shall be maintained within the range 3-6 inches of water while the emissions unit is in operation.
- The water flow into the venturi scrubber shall be maintained within the range 14-16 gallons per minute while the emissions unit is in operation.
- The water flow into the packed tower scrubber shall be maintained within the range 4-6 gallons per minute while the emissions unit is in operation.
- The pH of the venturi and packed tower scrubber liquors shall be maintained between 7.5-8.0.

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

#### **1. Venturi Scrubber Monitoring and Recordkeeping Requirements**

The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. The pressure drop across the venturi scrubber, in inches of water, on a once per shift basis.
- b. The venturi scrubber water recirculation flow rate, in gallons per minute, on a once per shift basis.
- c. The pH of the venturi scrubber liquor on a once per shift basis.
- d. The downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

#### **2. Packed Tower Scrubber Monitoring and Recordkeeping Requirements**

The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. The pressure drop across the packed tower scrubber, in inches of water, on a once per shift basis.
- b. The packed tower scrubber water recirculation flow rate, in gallons per minute, on a once per shift basis.
- c. The pH of the packed tower scrubber liquor on a once per shift basis.
- d. The downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

#### **3. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.**

### **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following venturi scrubber system parameters were not maintained within the ranges specified in Section A.II of this permit:
  - a. The static pressure drop across the venturi scrubber system.
  - b. The venturi scrubber system liquor recirculation flow rate.
  - c. The pH of the venturi scrubber liquor.

#### **IV. Reporting Requirements (continued)**

3. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following packed tower scrubber system parameters were not maintained within the ranges specified in Section A.II of this permit:
  - a. The static pressure drop across the packed tower scrubber system.
  - b. The packed tower scrubber system liquor recirculation flow rate.
  - c. The pH of the packed tower scrubber liquor.
4. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

#### **V. Testing Requirements**

1. Emission Limitation:  
5% opacity as a 6-minute average  
  
Applicable Compliance Method:  
If required, compliance with the visible emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.
2. Emission Limitation:  
0.551 pound PE per hour  
  
Applicable Compliance Method:  
If required, compliance with this emission limitation shall be determined through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(10).

#### **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

**None**

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Tool Room Metal Working & Miscellaneous Equipment (P004)

**Activity Description:** Various Metal Working Equipment such as Bandsaws, Lathes, Grinders, Cup Welder, Mold Presses, Knuckle Press used for Tool Making

#### A. State and Federally Enforceable Section

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
metal working equipment used for tool making equipped with an unshared Wheelabrator baghouse #5	OAC rule 3745-17-11(B)	Particulate emissions (PE) shall not exceed 3.47 pounds per hour.
	OAC rule 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule

##### 2. Additional Terms and Conditions

- 2.a A regular program of inspection and maintenance shall be performed on the baghouse and its associated ductwork and blower.
- 2.b An adequate number of replacement bags (at least 10%) shall be kept on the premises.
- 2.c Material collected by the baghouse shall be handled in such a way there shall be no emission of fugitive dust. Material spilled from the baghouse hoppers or from screw conveyor(s) shall be cleaned up immediately.

##### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range 3-7 inches of water while the emissions unit is in operation.

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

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

##### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

## **V. Testing Requirements**

1. Emission Limitation:  
3.47 pounds PE per hour

Applicable Compliance Method:

If required, compliance with this emission limitation shall be determined through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(10).

2. Emission Limitation:  
20% opacity as a six-minute average.

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

**None**

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

**Part III - Terms and Conditions for Emissions Units**

**Emissions Unit ID:** Nitriding Furnace Line (P006)

**Activity Description:** Ammonia Base Electric Furnaces used for Nitriding Splines on Metal Discs

**A. State and Federally Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
ammonia nitriding furnaces	OAC rule 3745-31-05(A)(3) (PTI #13-1746a)	Ammonia emissions shall not exceed 14 tons per year.

**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

1. The permittee shall maintain the practice of introducing nitrogen gas directly into the furnaces during the cool/purge period in order to lower ammonia emissions.

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

1. The ambient air inside the plant shall be monitored for the presence or absence of ammonia on a daily basis.
2. If ammonia is detected, appropriate correction action(s) shall be taken to correct the cause(s) of the ammonia odors.
3. The permittee shall maintain the following annual records for this emissions unit:
  - a. The actual ammonia consumption, in tons.
  - b. The predicted process ammonia need, in tons.

**IV. Reporting Requirements**

1. The permittee shall submit annual reports which specify the total emissions of ammonia from this emissions unit for the previous calendar year. The reports shall be submitted by January 31 of each year.

**V. Testing Requirements**

1. Emission Limitation:  
Ammonia emissions shall not exceed 14 tons per year.

Applicable Compliance Method:  
Compliance shall be demonstrated by subtracting the predicted process ammonia need from the actual ammonia consumption.

Facility Name: **Wellman Friction Products Brook Park**  
Facility ID: **13-18-12-1632**  
Emissions Unit: **Nitriding Furnace Line (P006)**

**VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

**None**

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

**Part III - Terms and Conditions for Emissions Units**

**Emissions Unit ID:** Commercial Finishing Line (P007)

**Activity Description:** Various Sanders, Grinders and Groovers used for Machining Sintered Metallic Friction Materials

**A. State and Federally Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
commercial brake & clutch parts finishing line - sanding, grinding & machining equipment controlled by baghouse #1	OAC rule 3745-31-05(A)(3) (PTI #13-01746 modification issued 11/28/2000)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B) and 3745-17-07(A).
	OAC rule 3745-17-11(B)	Particulate emissions (PE) shall not exceed 6.53 TPY. 1.49 lbs PE/hr
	OAC rule 3745-17-07(A)	20% opacity, as a six-minute average, except as provided by rule

**2. Additional Terms and Conditions**

- 2.a A regular program of inspection and maintenance shall be performed on the baghouse and its associated ductwork and blower.
- 2.b An adequate number of replacement bags (at least 10%) shall be kept on the premises.
- 2.c Material collected by the baghouse shall be handled in such a way there shall be no emission of fugitive dust. Material spilled from the baghouse hoppers or from screw conveyor(s) shall be cleaned up immediately.

**II. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 3 to 7 inches of water column while the emissions unit is in operation.

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

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

**IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

#### **IV. Reporting Requirements (continued)**

2. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

#### **V. Testing Requirements**

1. Emission Limitation:  
20% opacity as a six-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

2. Emission Limitations:  
PE shall not exceed 1.49 lbs/hr.

Applicable Compliance Method:

If required, compliance with this emission limitation shall be determined through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(10).

3. Emission Limitation:  
PE shall not exceed 6.53 TPY.

Applicable Compliance Method:

Compliance with the tons per year limitation shall be assumed as long as compliance is maintained with the lbs/hr limit.

#### **VI. Miscellaneous Requirements**

1. The terms and conditions of the original Permit to Install No. 13-1746 issued on March 30, 1988 for requirements for emissions unit P007 have been modified and the modified permit has been issued as Permit to Install No. 13-01746 on November 28, 2000.

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

**None**

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Commercial Molding Line (P008)

**Activity Description:** Various Presses for Molding Powdered Metal Parts W/ Portable Roller Coaters for Applying Graphite

#### A. State and Federally Enforceable Section

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
commercial molding press line with 8 hydraulic presses for molding powdered metal parts, a series of portable roller coaters at each press for applying graphite to the molded part and controlled by a Wheelabrator baghouse	OAC rule 3745-31-05(A)(3) (PTI #13-1746c)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 3745-21-09(U)(2)(e)(ii).
	OAC rule 3745-17-11(B)	Particulate emissions (PE) shall not exceed 0.01 gr/dscf, 1.18 lbs/hr, and 5.18 TPY.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-09(U)(2)(e)(ii)	20% opacity as a six-minute average, except as provided by rule The maximum daily coating usage for each press shall not exceed 3 gallons.

##### 2. Additional Terms and Conditions

- 2.a A regular program of inspection and maintenance shall be performed on the baghouse and its associated ductwork and blower.
- 2.b An adequate number of replacement bags (at least 10%) shall be kept on the premises.
- 2.c Material collected by the baghouse shall be handled in such a way there shall be no emission of fugitive dust. Material spilled from the baghouse hoppers or from screw conveyor(s) shall be cleaned up immediately.

##### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 3 to 7 inches of water while the emissions unit is in operation.

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

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall collect and record the following information each day for each press in the molding 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 all of the coatings employed.

### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) 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 Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

### V. Testing Requirements

1. Emission Limitation:  
20% opacity as a six-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

2. Emission Limitations:  
PE shall not exceed 0.01 gr/dscf.  
PE shall not exceed 1.18 lbs/hr.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit expiration.

The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.

The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Methods 1-5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

## **V. Testing Requirements (continued)**

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

- 3.** Emission Limitation:  
PE shall not exceed 5.18 TPY.

Applicable Compliance Method:

Compliance with the tons per year limitation shall be assumed as long as compliance is maintained with the lbs/hr limit

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

**None**

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** 24" Sintering Furnace #7 (P012)  
**Activity Description:** 24" Sintering Furnace #7

#### A. State and Federally Enforceable Section

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

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
natural gas-fired sintering furnace controlled by a venturi scrubber and a packed tower scrubber	OAC rule 3745-31-05(A)(3) (PTI #13-2664b)	5% opacity as a six-minute average  Carbon monoxide (CO) emissions shall not exceed 9.59 lbs/hr. (See Additional Term and Condition 2.a).  No objectionable odors
	OAC rule 3745-17-11(B)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B).  Particulate emissions (PE) shall not exceed 0.551 lb/hr. (See A.I.2.b).
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

##### 2. Additional Terms and Conditions

- 2.a The hourly emission limitation for CO is based on the emissions unit's potential to emit. Therefore, no additional monitoring, recordkeeping and/or reporting requirements are necessary to ensure compliance with this emissions limitation.

##### II. Operational Restrictions

- The permittee shall burn only natural gas in this emissions unit.
- The pressure drop across the venturi scrubber shall be maintained within the range 20-25 inches of water while the emissions unit is in operation.
- The pressure drop across the packed tower scrubber shall be maintained within the range 3-6 inches of water while the emissions unit is in operation.
- The water flow into the venturi scrubber shall be maintained within the range 14-16 gallons per minute while the emissions unit is in operation

## II. Operational Restrictions (continued)

5. The water flow into the packed tower scrubber shall be maintained within the range 4-6 gallons per minute while the emissions unit is in operation
6. The pH of the venturi and packed tower scrubber liquors shall be maintained between 7.5-8.0.

## III. Monitoring and/or Record Keeping Requirements

### 1. Venturi Scrubber Monitoring and Recordkeeping Requirements

The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. The pressure drop across the venturi scrubber, in inches of water, on a once per shift basis.
- b. The venturi scrubber water recirculation flow rate, in gallons per minute, on a once per shift basis.
- c. The pH of the venturi scrubber liquor on a once per shift basis.
- d. The downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

### 2. Packed Tower Scrubber Monitoring and Recordkeeping Requirements

The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. The pressure drop across the packed tower scrubber, in inches of water, on a once per shift basis.
- b. The packed tower scrubber water recirculation flow rate, in gallons per minute, on a once per shift basis.
- c. The pH of the packed tower scrubber liquor on a once per shift basis.
- d. The downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

3. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

## IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

#### **IV. Reporting Requirements (continued)**

2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following venturi scrubber system parameters were not maintained within the ranges specified in Section A.II of this permit:
  - a. The static pressure drop across the venturi scrubber system.
  - b. The venturi scrubber system liquor recirculation flow rate.
  - c. The pH of the venturi scrubber liquor.
3. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following packed tower scrubber system parameters were not maintained within the ranges specified in Section A.II of this permit:
  - a. The static pressure drop across the packed tower scrubber system.
  - b. The packed tower scrubber system liquor recirculation flow rate.
  - c. The pH of the packed tower scrubber liquor.
4. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

#### **V. Testing Requirements**

1. Emission Limitation:  
PE shall not exceed 0.551 lb/hr.  
  
Applicable Compliance Method:  
If required, compliance with this emission limitation shall be determined through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(10).
2. Emission Limitation:  
5% opacity as a six-minute average  
  
Applicable Compliance Method:  
If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
3. Emission Limitation:  
CO emissions shall not exceed 9.59 lbs/hr.  
  
Applicable Compliance Method:  
If required, compliance with this emission limitation shall be determined through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Method 10.

#### **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

**None**

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** HDT Manufacturing Line (P013)

**Activity Description:** HDT (Graphitic) Friction Disc Manufacturing Line Consisting of Various Mixing, Molding, Sanding and Grinding Equipment

#### A. State and Federally Enforceable Section

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

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
HDT (graphitic) friction disc manufacturing line controlled by a 35,000 acfm baghouse shared with P014 as follows: (P013 -----> 27,800 acfm P014 -----> 7,200 acfm)	OAC rule 3745-31-05(A)(3) (PTI #13-3065)	Particulate emissions (PE) shall not exceed 0.96 lb/hr.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).
	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule

##### 2. Additional Terms and Conditions

- A regular program of inspection and maintenance shall be performed on the baghouse and its associated ductwork and blower.
- An adequate number of replacement bags (at least 10%) shall be kept on the premises.
- Material collected by the baghouse shall be handled in such a way there shall be no emission of fugitive dust. Material spilled from the baghouse hoppers or from screw conveyor(s) shall be cleaned up immediately.

##### II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range 3-7 inches of water while the emissions unit is in operation.

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

- The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

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

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

#### **V. Testing Requirements**

1. Emission Limitation:  
20% opacity as a six-minute average

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Emission Limitation:  
0.96 lb/hr particulate emissions at baghouse stack exit for P013 alone

Applicable Compliance Method:

If required, compliance with this emission limitation shall be determined through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(10).

#### **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

**None**

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Abrasive Belt Sander (P014)

**Activity Description:** AEM Horizontal Belt Sanders for Sanding Metal Discs to a Specified Surface Finish

#### A. State and Federally Enforceable Section

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

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
abrasive belt sander (HDT friction disc manufacturing line) controlled by a baghouse shared with P013 as follows: (P013 -----> 27,800 acfm P014 -----> 7,200 acfm)	OAC rule 3745-31-05(A)(3) (PTI #13-3079)	Particulate emissions (PE) shall not exceed 1.60 lbs/hr.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).
	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	20% opacity as a six-minute average, except as provided by rule

##### 2. Additional Terms and Conditions

- A regular program of inspection and maintenance shall be performed on the baghouse and its associated ductwork and blower.
- An adequate number of replacement bags (at least 10%) shall be kept on the premises.
- Material collected by the baghouse shall be handled in such a way there shall be no emission of fugitive dust. Material spilled from the baghouse hoppers or from screw conveyor(s) shall be cleaned up immediately.

##### II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range 3-7 inches of water while the emissions unit is in operation.

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

- The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

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

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

#### **V. Testing Requirements**

1. Emission Limitation:  
20% opacity as a six-minute average

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Emission Limitation:  
1.60 lbs/hr particulate emissions at baghouse stack exit for P014 alone

Applicable Compliance Method:

If required, compliance with this emission limitation shall be determined through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(10).

#### **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

**None**

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Grit Blast Machine (P015)  
**Activity Description:** Grit Blast Machine

#### A. State and Federally Enforceable Section

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
grit blast machine using 111 lbs/hr of aluminum oxide as blasting medium to blast metal discs and controlled by a 5,000 acfm Nashville Metal Prep baghouse #7	OAC rule 3745-31-05(A)(3) (PTI #13-3095 modification issued 11/28/2000)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B).  Particulate emissions (PE) shall not exceed 14.8 TPY  5% opacity as a six-minute average
	OAC rule 3745-17-11(B)	PE shall not exceed 3.38 lbs/hr.
	OAC rule 3745-17-07(A)	The visible emission limitation in this rule is less stringent than that established pursuant to OAC rule 3745-31-05(A)(3)

##### 2. Additional Terms and Conditions

- 2.a A regular program of inspection and maintenance shall be performed on the baghouse and its associated ductwork and blower.
- 2.b An adequate number of replacement bags (at least 10%) shall be kept on the premises.
- 2.c Material collected by the baghouse shall be handled in such a way there shall be no emission of fugitive dust. Material spilled from the baghouse hoppers or from screw conveyor(s) shall be cleaned up immediately.

##### II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range 3-7 inches of water column while the emissions unit is in operation.

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

1. The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

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

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

#### **V. Testing Requirements**

1. Emission Limitation:  
5% opacity as a six-minute average

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Emission Limitation:  
3.38 lbs PE/hr

Applicable Compliance Method:

If required, compliance with this emission limitation shall be determined through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(10).

3. Emission Limitation:  
PE shall not exceed 14.8 TPY.

Applicable Compliance Method:

Compliance with the tons per year limitation shall be assumed as long as compliance is maintained with the lbs/hr limit.

#### **VI. Miscellaneous Requirements**

1. The terms and conditions of the original Permit to Install No. 13-3095 issued on August 28, 1996 for requirements for emissions unit P015 have been modified and the modified permit has been issued as Permit to Install No. 13-03095 on November 28, 2000.

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

**None**

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** 5 electric furnaces #1 to #5 (P016)

**Activity Description:** 5 electric furnaces using nitrogen, disassociated ammonia and exothermic gas atmosphere for sintering. Each furnace has an integral flame curtain.

#### A. State and Federally Enforceable Section

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
five (5) electrically heated continuous belt furnaces using nitrogen, dissociated ammonia, and exothermic gas atmosphere for sintering and brazing metallic friction materials controlled with a venturi scrubber, a packed tower scrubber, and 5 flame curtains (one for each furnace)	OAC rule 3745-31-05(A)(3) (PTI #13-3143 modification issued on November 28, 2000)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B) and 3747-17-07(A).  Particulate emissions (PE) shall not exceed 3.29 TPY.  Carbon monoxide (CO) emissions shall not exceed 2.88 lbs/hr and 12.61 TPY. (See Additional Term and Condition 2.e).
	OAC rule 3745-17-11(B)	PE shall not exceed 0.75 lb/hr.
	OAC rule 3747-17-07(A)	20% opacity as a six-minute average, except as provided by rule

##### 2. Additional Terms and Conditions

- 2.a The venturi scrubber shall be maintained at the following conditions:
  - i. water recirculation rate: 20 gallons of water per minute;
  - ii. pressure drop range: 30-40 inches water gauge; and
  - iii. pH range: 7.5-8.0
- 2.c The packed tower scrubber shall be maintained at the following conditions:
  - i. water recirculation rate: 5 gallons of water per minute;
  - ii. pressure drop range: 3-5 inches water gauge; and
  - iii. pH range: 7.5-8.0
- 2.d The permittee shall maintain the pH of the effluent from the scrubbers in the range of 7.0-7.5 at all times.
- 2.e The hourly emission limitation for CO is based on the emissions unit's potential to emit. Therefore, no additional monitoring, recordkeeping and/or reporting requirements are necessary to ensure compliance with this emissions limitation.

## II. Operational Restrictions

### 1. Operational Restriction for the Five Flame Curtains

The average combustion chamber temperature within each of the five flame curtains, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1450 degrees Fahrenheit.

## III. Monitoring and/or Record Keeping Requirements

### 1. Venturi Scrubber Monitoring and Recordkeeping Requirements

The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. The pressure drop across the venturi scrubber, in inches of water, on a once per shift basis.
- b. The venturi scrubber water recirculation flow rate, in gallons per minute, on a once per shift basis.
- c. The pH of the venturi scrubber liquor on a once per shift basis.
- d. The downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

### 2. Packed Tower Scrubber Monitoring and Recordkeeping Requirements

The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. The pressure drop across the packed tower scrubber, in inches of water, on a once per shift basis.
- b. The packed tower scrubber water recirculation flow rate, in gallons per minute, on a once per shift basis.
- c. The pH of the packed tower scrubber liquor on a once per shift basis.
- d. The downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

### 3. Temperature Monitoring and Recordkeeping Requirements for the Five Flame Curtains

For each of the five flame curtains, the permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion chamber temperature within the flame curtain when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. All 3-hour blocks of time during which the average combustion chamber temperature within each of the five flame curtains, when the emissions unit was in operation, was less than 1450 degrees Fahrenheit.
- b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following venturi scrubber system parameters were not maintained within the ranges specified in Section A.II of this permit:
  - a. The static pressure drop across the venturi scrubber system.
  - b. The venturi scrubber system liquor recirculation flow rate.
  - c. The pH of the venturi scrubber liquor.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following packed tower scrubber system parameters were not maintained within the ranges specified in Section A.II of this permit:
  - a. The static pressure drop across the packed tower scrubber system.
  - b. The packed tower scrubber system liquor recirculation flow rate.
  - c. The pH of the packed tower scrubber liquor.
3. Reporting Requirements for the Temperatures of the Five Flame Curtains  

The permittee shall submit quarterly deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion chamber temperature within each of the five flame curtains does not comply with the temperature limitation specified above.
4. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

#### V. Testing Requirements

1. Emission Limitation:  
PE: 0.75 lb/hr  
  
Applicable Compliance Method:  
If required, compliance with this emission limitation shall be determined through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(10).
2. Emission Limitation:  
PE shall not exceed 3.29 TPY.  
  
Applicable Compliance Method:  
Compliance with the tons per year limitation shall be assumed as long as compliance is maintained with the lbs/hr limit.
3. Emission Limitation:  
20% opacity as a 6-minute average  
  
Applicable Compliance Method:  
If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
4. Emission Limitation:  
2.88 lbs CO/hr  
  
Applicable Compliance Method:  
If required, compliance with this emission limitation shall be determined through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Method 10.

**V. Testing Requirements (continued)**

5. Emission Limitation  
CO shall not exceed 12.61 TPY.

Applicable Compliance Method:

Compliance with the tons per year limitation shall be assumed as long as compliance is maintained with the lbs/hr limit.

**VI. Miscellaneous Requirements**

1. The terms and conditions of the original Permit to Install No. 13-3143 issued on November 6, 1996 for requirements for emissions unit P015 have been modified and the modified permit has been issued as Permit to Install No. 13-03143 on November 28, 2000.

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

**None**

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Metal Finishing Line (P017)

**Activity Description:** Metal Finishing Line Using Speed Sanders For Sanding Metal Discs to Specified Micro Finish

#### A. State and Federally Enforceable Section

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

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
metal finishing line controlled by a baghouse	OAC rule 3745-31-05(A)(3) (PTI #13-3145)	5% opacity as a six-minute average  The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B).
	OAC rule 3745-17-11(B)	Particulate emissions (PE) shall not exceed 2.4 lbs/hr.
	OAC rule 3745-17-07(A)	The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

##### 2. Additional Terms and Conditions

- 2.a** A regular program of inspection and maintenance shall be performed on the baghouse and its associated ductwork and blower.
- 2.b** An adequate number of replacement bags (at least 10%) shall be kept on the premises.
- 2.c** Material collected by the baghouse shall be handled in such a way there shall be no emission of fugitive dust. Material spilled from the baghouse hoppers or from screw conveyor(s) shall be cleaned up immediately.

##### II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range 3-7 inches of water while the emissions unit is in operation.

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

- The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

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

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

#### **V. Testing Requirements**

1. Emission Limitation:  
2.4 lbs PE/hr

Applicable Compliance Method:

If required, compliance with this emission limitation shall be determined through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(10).

2. Emission Limitation:  
5% opacity as a six-minute average

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

#### **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

**None**

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

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